# Unlock the ease and satisfaction of selling

A doorstep pick-up service design for Valyuu

Master Thesis Enya Zuo



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### **Master Thesis**

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### Preface

This thesis serves as a reflection on the invaluable Thank you Jingwei, lessons learned during my 2-year time at Delft University of Technology. When I first set foot in It is my great honor that you are willing to entrust the IO faculty's gates, I didn't expect to gain so such an important and long-planned service much from this place. My journey of the master design project to me. I still remember in the study has been a transformative experience, beginning of the project, you asked me if you one filled with intellectual growth, personal are dedicated to take on this project and if you love this topic. I can feel that your ambition has development, and a deepening appreciation for design. I extend my heartfelt gratitude to the a strong resonation with me. During the project, esteemed friends in the faculty, professors, and you are both my mentor and my senior, and I still mentors who guided and inspired me throughout remember many of our interesting, sometimes this process. off-topic but nevertheless valuable talks. Besides providing me with guidance on the project, I'm Thank you EJ and Kate, really grateful that you helped me smooth out many interpersonal relationships within the During the six months of the project, you provided company, allowing my sessions and workshops to me with valuable advice on both academic and run smoothly, through which I learned a lot aside practical matters. Your clear guidance was from professional knowledge.

especially helpful when I felt confused about my project. Although we didn't have many Thank you my beloved Mom, Dad and my cattie opportunities to meet in person, all of your Shaoji, suggestions were incredibly valuable to me. I believe I will continue to remember them as I enter Even though we are separated by more than my career. With your assistance, I discovered that 7000km, it is your love and mental support that working on this project and writing the thesis is encourage me to keep going and have brought me here today. I can't wait to meet you in the coming a gradual learning process. It has been enjoyable to explore new theories in this field under your months. guidance.

Now, to people who'd like to continue with reading this thesis, I hope you enjoy it!

左恩雅 Enya Zuo 20 September, 2023

### **Executive summary**

Valyuu, a circular digital device trading start-up, is Based on Valyuu's target audience being Elite currently facing the problem of losing customers during the order placement process. In order to address this issue, I have been given the task of attracting more Elite Resellers to use Valyuu's designing a doorstep service that will streamline the seller's user flow from placing an order to receiving payment. While doorstep services are conversion on Valyuu's platform through doorstep not new in the market, Valyuu needs a service pick-up service?" (Chapter 5) design that is tailored to their specific needs. With the research question "How can Valyuu meet I facilitated a co-creation workshop with Valyuu's the needs of pre-owned product sellers through appropriate means to achieve efficiency, ease, Delft to gather ideas from different perspectives. and resonance of branding in doorstep pick-up I also conducted a brainstorming session myself, service?" in mind, I conducted research in three main areas: Valyuu's brand position, doorstep service, and the behavior of selling pre-owned creation workshop and brainstorming session were devices. (Chapter 1)

I conducted background research to gather into a service scenario. (Chapter 7) information about the market and competitors. This helped me gain a better understanding of the overall landscape. (Chapter 2) I also in-house designer, marketer, and friends who had reviewed relevant literature to gather insights used the doorstep service before. Based on their and knowledge that would inform my research and design process. (Chapter 3) To gather more and designed the core touchpoints, as well as specific insights, I conducted interviews with 14 an implementation strategy. (Chapter 8) Due to participants who were divided into three groups representing different personas: Elite Resellers, that can be improved. I provided suggestions Charm Merchants, and Passionate Connectors. for future enhancements. These suggestions are These personas represent different types of presented at the end of this thesis. (Chapter 9) sellers with varying goals and selling channels. (Chapter 4)

Resellers, the design opportunity lies in converting more Charm Merchants into Elite Resellers and platform. The research question is refined to be "How can we maximize seller performance and

in-house staff and a designer friend from TU guided by the design direction mentioned earlier. (Chapter 6) All the ideas generated from the coclustered using the Kano model. The "must-have" and "performance" ideas were then incorporated

The service scenario was validated with Valyuu's feedback, I made iterations to the service details time limitations, there are still areas of the service



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# 01 Introduction

1.1 Company and strategy1.2 Project position1.3 Challenge1.4 Stakeholder

1.5 Project structure

# Company and strategy

Valyuu is a innovative startup which builds a platform dedicated to encouraging people to pay attention to pre-owned electronic products. It encourage people to recycle them to extend their lifespan, and prevent them from becoming e-waste. Currently, Valyuu has two business product to Valyuu. models (see Figure 1.1): recycling pre-owned

products from sellers, and selling refurbished products to buyers at a low price. This project mainly focuses on the former, aiming to enhance the user experience of sellers from the process of placing an order on the platform to shipping their



Figure 1.1. Valyuu's 2 business models

In order to attract more sellers and expand their product, but usually results in less money for the market, Valyuu values user-centric thinking and tries to constantly iterate the platform. At present, they have also discovered some problems in their existing products and operations that need to be addressed:

### 1. Make selling process efficient

Valyuu offers two plans in their selling model: the Fix plan and the Flex plan. The Fix plan, also known as "fast pay," allows the seller to receive faster payment. payment within 24 hours of Valyuu receiving the

seller. The Flex plan, also known as "best value," only applies when the product is in overall good condition. Valyuu will offer payment after carefully checking all the product's conditions, which takes longer than the first option.

To expedite the process of shipping the product from the seller to Valyuu, a doorstep service could be introduced to make the overall process easier and more convenient. This would also result in

### 2. Seek unique selling points

As an innovative startup, Valyuu is trying to differentiate itself from others in the market **Communication**: There are some obstacles when to attract more investors. After investigating sellers answer questions provided on the platform, Dutch pre-owned selling platforms, an in-house such as not fully understanding hidden problems doorstep pick-up service would be a standout or cheating the platform to earn more money. feature for Valyuu.

Sudden change of mind: Due to time lag, some 3. Problems in current user experience sellers change their mind from selling to Valyuu to giving to family or friends, which takes less time Logistics: Sellers have reported receiving frequent and effort to get rid of their pre-owned products. reminders from Valyuu about their shipped Therefore, it is necessary to reduce the time from products. This is due to an information gap when people think about selling something to between Valyuu and the cooperating logistics actually receiving payment.

# Project position

Doorstepping pick-up service aims to introduce identify a strategic plan that ensures economic a new selling mode that seeks to streamline and financial conditions for achieving profits. the selling process for sellers, making it more (Loredana, 2017) Based on existing reports efficient and hassle-free. It is expected to garner and literature, Valyuu has already identified its motivation and participation from sellers, who target users and market position for the platform. Therefore, the focus of research and delivery will be able to complete the entire selling process for the doorstep pickup service will mainly be on with greater ease and convenience. This service will also provide buyers with an added level of enhancing the current online selling experience convenience, as they will be able to receive their with the addition of in-person interaction during purchases right at their doorstep, eliminating the doorstep pickup for sellers, in order to improve need for them to travel to a physical location to the overall user experience when selling. ship their product or book reservation themselves.

Together with Valyuu's three co-founders, I The strategic positioning of this service can be analyzed the potential combinations of market considered using Ansoff's growth matrix (see and product. As a result, product development -Figure 1.2). This 2x2 matrix divides into four which refers to the creation of new products with distinct strategic positions. The horizontal axis the goal of replacing existing ones to increase the focuses on the angle of existing and new products organization's market share - was identified as a and services, while the vertical axis focuses on suitable strategy for introducing a doorstep pickexisting and new markets. This matrix helps to up service. This is because the positioning of

company, leading to confusion for the sellers in the middle.

the doorstep pick-up service is to streamline the and offline services to replace the current onlineuser experience by building upon existing selling only seller experience. experiences, and utilizing a combination of online



Figure 1.2. Ansoff's growth matrix

### 1.3 Challenge

Valyuu's future vision in 2028 is to become a full- social impact by expressing the uniqueness of its line and full-lifecycle pre-owned marketplace in services. However, there is still no comprehensive the Netherlands. Combining the previous report and mature business model for doorstep pickand the interview with the co-founder, it can be seen that doorstep pick-up service is the beginning of Valyuu's transformation from an to investigate the current status, people's needs, online platform to a combination of online and other factors. The research question of this offline services. As we can see from the existing project can be summarized as: report, this stage is where Valyuu begins to build its

up service for selling pre-owned goods in the Netherlands. To design the service, it is crucial

"How can Valyuu meet the needs of pre-owned product sellers through appropriate means to achieve efficiency, ease, and resonance of branding in doorstep pick-up service?"

### 1.3.1 What are seller's needs in selling pre-owned products?

To bring the service closer to users and integrate by looking at existing reports and literature on with existing selling modes, it's necessary to the important factors that influence customer analyze their needs. This project aims to enhance satisfaction, loyalty, and happiness in user user satisfaction, retention, and growth by experience, then apply these insights to the improving the convenience and simplicity of user context of this project to better understand what selling experience. To achieve this, I will start Valyuu sellers need during their selling experience.

### 1.3.2 What should be considered in doorstepping logistic service?

Valyuu hopes to launch doorstepping as a unique factors in generating product differentiation and selling point. As the current logistics companies gain recognition from investors. Therefore, to cannot satisfy the demand for convenience from research the integration of logistic services with Valyuu's sellers and convenience is a crucial Valyuu's current selling model, I plan to refer to factor that they consider when choosing to sell the existing end-to-end e-commerce companies pre-owned products[]. Valyuu believes that in the Netherlands, such as Coolblue and Picnic, integrating an in-house logistics service into its and summarize the points that Valyuu can learn business model can become one of the important from their doorstep service model.

### 1.3.3 What are Valyuu's outstanding points in implementing the service?

As an innovative startup, it is crucial for Valyuu improvements need to be made. For a startup, to seek out points of differentiation and efficiently utilizing limited company resources innovation from other startups. In the process of and capabilities for later on rapid product implementing the doorstepping pick-up service, testing is important. Therefore, clearly defining Valyuu's existing resources and capabilities that it is important to fully consider Valyuu's existing resources and capabilities. Through talks with can provide services for the doorstepping pickthe company co-founders, I learned that the up service is essential for the project's ultimate online order conversion rate and return rate are 2 success. By doing so, Valyuu can ensure that it important indicators to test if the project will be a is using its resources effectively and efficiently to success. These metrics will help Valyuu understand offer a high-quality and innovative service to its how well the doorstepping pick-up service is customers. being received by customers and whether or not



As Figure 1.4 shows, this project is a collaboration between Valyuu, a trading platform for circular pre-owned products, and TU Delft. With the academic support of Erik–Jan and Kate from TU Delft, the aim of this project is to address existing issues in the seller's experience when interacting with the platform. Additionally, the team aims to launch a service design that connects online and offline channels to simplify the process.

such as logistic information delay and payment information mixing up. Valyuu would like to standardize the user flow of selling and integrate an in-house logistic system to solve these problems. This means that there will be an inhouse pick-up man who will take responsibility for checking the product directly at the doorstep and deal with payment. Therefore, the online and backstage service will be easier for the seller because their selling will end up at the doorstep after getting payment. From the seller's perspective, the service will mostly focus on the stage before they meet the pick-up man. From Valyuu's perspective, making the pickup information up-to-date and all payment information clear will be an important focus.



### 1.5 Project structure

The conduction flow of this project is basically to first get an understanding of the existing market scope of doorstep service, people's perception During the define phase, I primarily investigated off selling pre-owned device, and Valyuu's background. With the knowledge of these, solutions of the doorstep service is generated, which is a typical diverging - converging flow. Therefore, the double diamond model can be a suitable guidance to direct this project.

### Discover

Valyuu's background, the current market situation of doorstep services, and people's habits of selling pre-owned products. I also utilized theories such as the Kano model and SERVQUAL model to support the project, which provided valuable knowledge to understand the context of doorstep service.

### Define

The aim of this phase is to define the opportunity for innovation while maintaining the basic function of doorstep service. Because doorstep service is not a new model in the market, but it is new for Valyuu.

### Develop

The aim of this phase is to validate if the concept meets the stakeholder's needs and present the The goal of this phase is to generate as many final design. This phase includes a detailed service ideas as possible to address the problems map and touchpoint designs explanation.



identified in the previous stages. After several rounds of brainstorming, the ideas were then grouped into different themes, and some were selected for integration. A initial concept presented by a service scenario and a blueprint are created based on these ideas.

### Develop

# 02 **Project Context**

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2.1 Trend analysis 2.2 Competitor analysis

### 2.1 Trend analysis



### **Omnichannel retailing**

To see the importance of combining online and offline

Omnichannel refers to the integration of all Demoulin, 2022). When compared to purchasing available channels to provide a seamless and consistent customer experience across both order online and then experience the products online and offline channels. This has become an physically before deciding whether or not to important trend as it enhances customer retention and brand experiences (Yin et al., 2022). It also directly impacts customers' perceptions of their shopping journey, leading to greater engagement, component of an omnichannel strategy for increased sales, and reduced likelihood of companies. (Adivar et al., 2019) switching to another retailer (Cocco and

products solely online, people prefer to place an pay for them (Ming et al., 2018). This reduces the risk of dissatisfaction with the product and delayed refunds. Physical interaction is a critical



### Internet +

To gain digital transformation and development



integration of the internet with various industries, for the country. Furthermore, the development sectors, and aspects of society. It leverages of "Internet+" has spurred a new wave of urban the power of the internet and related digital technologies to enable synergistic interactions promoting sustainable development. As a result, it and deep integration between traditional industries and the digital realm. In China, where "Internet+" has been widely embraced, studies et al., 2021) The development of "Internet+" has have shown that it has a positive impact on lowcarbon development. Specifically, it has reduced efficiency (GIE). (Luo et al., 2023) carbon intensity, energy intensity, and carbon

"Internet+" is a concept that emphasizes the density, leading to a more sustainable future green innovation, increasing efficiency and further has become an essential part of China's strategy for economic and environmental growth. (Zhang led to an upward trend in urban green innovation



### Data transparency

On the one hand protect user's data, on the other hand make the service transparent



### Sustainability awareness

To become a motivation for both seller and company to take action

Sustainability has become a widely recognized sustainable awareness among customers, there concept in today's society. As more people move are still barriers such as lack of time, financial towards sustainable consumption, sustainable resources, specific information, and insufficient lifestyles are becoming increasingly normalized. conditions that may impede people from taking This normalization brings positive possibilities sustainable actions (Brendzel-Skowera, 2021). for better adoption of sustainable ways of living (Rakic, 2015). Sustainable Lifestyle Marketing of Also, it's important to consider that a company's Individuals (SLMOI) is an activity that promotes willingness to adopt sustainable practices may sustainable lifestyles and is considered the create barriers for the service. Sustainable actions foundation of sustainability, leading to positive can often pose challenges in terms of availability environmental and social outcomes (Shirani, 2014). and cost, as some companies may not be willing However, despite its positive impact on promoting to compromise on profit margins.

**Brand recognition** 5 To imporve customer's loyalty and satisfaction

A brand is the identity of a platform. The various ways, while doorstepping can be a direct perception of a brand determines how much approach. A better brand experience can directly people know about it and how far its reach affect consumer satisfaction and loyalty towards extends. Previous studies have shown that the brand. Furthermore, consumers' perception of investing in doorstep branding can create a a brand's personality is influenced by their brand positive brand experience for consumers and experience, which in turn affects their satisfaction reduce return rates (Page Moreau, 2019). and loyalty towards the brand (Brakus et al., Consumers can get in touch with a brand in 2009).

transparency properly and disclose information because users need to access the information they need to make decisions (Chung et al., 2022). Additionally, previous studies have shown the importance of informing the user of possible biases and damages arising from digital service systems (Saldanha et al., 2022).





### 2.2 Competitor analysis

weaknesses, competitor analysis can provide an overview of the competing market and help us commonality with the focal company. Potential understand Valyuu's position. A good starting point is the "two-stage framework" developed by low market commonality, and they may not John Wiley and Sons (Bergen & Peteraf, 2002). According to this theory, two separate tasks competitors are outside the focal company's need to be performed: competitor identification - to determine who the competitors are; and competitor analysis - to compare companies' capabilities and become aware of the focal company's position.



Figure 2.2.1. Competitor identification matrix

As figure 2.2.1 shows, competitors can be classified into direct competitors, potential competitors, and ousiders, based on the degree of resource similarity and market commonality. Resource similarity refers to the extent to which two firms possess comparable strategic resources and capabilities. Market commonality describes the degree to which two firms compete in the same product or geographic markets (Bergen &

To evaluate a company's strengths and Peteraf, 2003). Direct competitors are the ones that have high resource similarity and market competitors have high resource similarity but necessarily serve the same customer needs. Some scope are with low resource similarity and market commonality. But this doesn't mean that we can ignore them cause the focal company has developing dynamics and might touch upon these later on.

> In our context, "resource" refers to the products and services that Valyuu offers to customers, such as pre-owned product testing or doorstepping. "Market," on the other hand, refers to a customerto-business (C2B) selling and business-tocustomer (B2C) shopping model. However, as the company develops, it also aims to expand the market to involve customer-to-customer (C2C) interactions in their business model. Therefore, we should consider dynamic development when comparing different companies.

> Therefore, companies that provide recycling and refurbishing services for used products and devices such as Coolblue, Apple trade-in service, and Northladder are considered direct competitors of Valyuu. Potential competitors include companies that offer doorstep services like Getir or sell products to individual buyers like Marktplaats. Although these companies may not directly compete with Valyuu, they may provide insights for Valyuu to further develop itself. Outside of the industry, there are logistics and last-mile delivery services, which are currently outside of Valyuu's business scope but could indicate future development opportunities.



Concluding from the above competitor analysis graph, we can detected some of the strenths and weakness of Valyuu by identifying the characteristics from those mentioned companies.

### Valyuu's strengths

1. Standardized testing with reports from Valyuu 1. Valyuu experiences delays in the logistics are useful in ensuring the product's condition and system because they collaborate with outsourced clarifying it with sellers. logistic companies.

2. The platform has reliable branding elements.

3. Valyuu has clear and competitive pricing due to no intermediaries.

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### Valyuu's weaknesses

2. Valyuu lacks brand promotion, making the platform less competitive than older brands like Marktplaats and official platforms like Apple.

3. There are payment confusions when Valyuu deals with large numbers of products at one time.

# 03 Literature Analysis

3.1 Detecting needs and customer loyalty 3.2 Service design framework

### 3.1 Detecting needs and customer loyalty

### 3.1.1 Use Kano model to identify degree of feature needs

As an innovative startup, Valyuu is always striving What is most interesting is that, this model help to detect user needs and continuously iterating us to identify degree of need from must-have, their product. Compared to giants, they are more performance to delighter. Figure 3.1 shows how flexible and closer to users. The company has they perfoms. invited customers and conducted online surveys to gather user insights to improve their product. The red line represents the essential features that Based on previous reports, 8 important points are the basic requirements of a product or service are frequently mentioned in customer feedback: easy process, immediate payment, high payment, paid as offered, friendly people, free shipping, a result, they will leave. Meeting all the essential trustworthy platform, and selling everything. These are considered the most important factors that would lead to a better user experience in Valyuu's context. However, in the surveys, customers wrote these viewpoints as big and broad without indicating if they see them as major problems or these needs are met, the happier the customers areas for improvement.

Therefore, I would like to utilize the Kano model evaluation to differentiate between must-have, performance, and delighter needs. This will also aid in making better trade-offs between customer satisfaction and producer capacity (Xu et al., they will not be sad if they are not present in the 2008).

for customers. If these needs are not fulfilled, customers will be completely disappointed and as needs does not necessarily mean that customers will be happy because they believe that these features should exist theoretically. The blue line represents the performance needs that should be met according to customer perception. The more will be. Examples of such features are cost and ease of use. These features will undoubtedly lead to satisfaction, and if they are absent, customers will be dissatisfied. The green line represents the delighters, which are not necessarily expected by customers at the beginning, and therefore, product or service. However, if they are present, customers will be very satisfied and delighted.

### How did Kano model helps the project

1. With the theory of Kano model, I classified the user needs mentioned in Valyuu's previous research, and gained a basic understanding of their priorities and importance.

2. In Chapter 6, I clustered the ideas generated during the co-creation session and individual brainstorming process into "must-have" ideas, "performance" ideas and "delighted" ideas, and identified which ideas should be implemented in the service at different developing horizons.

Delighted

### 3.1.2 Keep customer's loyalty in Duffy's framework

Customer loyalty is a crucial factor for the long-Then it comes to the question of how to build term success and profitability of a business. loyalty for a product or service. Currently, there It is product differentiation that leads to high are trends showing that building customer loyalty attachment and preference among customers, is a business strategy instead of just a marketing resulting in loyalty to the product or service (Griffin, program. This means that the process can be 1995). To determine the level of customer loyalty, standardized and it's good to develop a framework certain characteristics can be used as indicators. of loyalty strategy for a company (Duffy, 1998). These include repeated purchases, commitment, The framework provided by Duffy is a good start to detect where Valyuu positions itself and what willingness to persuade others to use the product, and willingness to recommend it (Heskett, can be done. 2002). It's important to note that not all of these features are in a linear relationship with loyalty. 1. Define the business objectives: There should For example, when satisfaction reaches a certain be some business objectives like conversion rate level, loyalty increases dramatically. At the same and return rate that should be identified in order time, when satisfaction declines to a certain point, to reach a direction of where to start for building loyalty drops equally dramatically (Bowen & Chen, loyalty. 2001). Indicators mentioned here are essential for measuring customer loyalty and can contribute 2. Understand the customer and develop a significantly to the development and profitability value proposition: Valyuu is constantly gathering of a business. customer feedback from online surveys and



Figure 3.1. Three features in Kano model

implementing them into platform design that continuously measuring the program's modifications with innovation around their brand performance and optimizing it can be good for the value proposition: certainty, convenience, and program. memorability.

3. Design the program: In Duffy's framework, it is suggested that program structure like reward system, earning and redemption rules, and communication channels can be useful for the product or service.

framework, determining various channels through which the company launches the project is important.

5. Measure and optimize: It is mentioned for pick-up men would be useful in this case.

How did Duffy's framework helps the project

Other than methods to develop programs, Griffin also emphasized the importance of empowering in-house employees and providing them with appropriate training and resources to improve customer loyalty (Griffin, 1995). For example, employees should always behave according to the brand values when dealing with user 4. Implementation of the program: In Duffy's problems or communicating with users in-person. This is important to consider when designing a doorstepping experience, as there will be physical interaction between the pick-up man and the seller. Providing behavioral or in-house training



### Figure 3.2. Five gaps in servoual model

3.2 Service design framework

One of the important aims of launching the doorstep service is to enhance the user experience and to gain customer loyalty to the platform. The theory helps in designing guidance for

the pick-up man, clarifying their tasks and identifying important considerations, such as the purpose of the doorstep service, understanding user priorities, and adhering to Valyuu's

### 3.2.1 Servgual Model

proposition.

When designing a service, it's important to know between customer expectations and perceptions how to measure its quality. Therefore, Servqual of the service quality. Therefore, the company can model is used to measure the quality of service. Servgual model is a tool that helps to identify gaps (Zeithaml et al., 2021).

improve their service quality and customer loyalty

Seeing figure 3.2, this model consists of two between the service itself and the delivery of the parts: the customer and the company. It mainly service. For example, service employees who do discusses the gap between perceived service and not know how to work properly in the service expected service, known as the zone of tolerance. system can create a big gap. Gap 4 is the gap Gap 1 exists between what the customer thinks between service delivery and communication, such the company will deliver and what the company as ads or promotions. It is important not to overthinks the customer wants. This gap may exist promise on service delivery. In other words, if the because the company may not conduct research promises of the service do not match the reality, on what the customer needs and wants, i.e. the zone of tolerance becomes narrower. Gap 5 is market orientation. The company's lack of the difference between the customer's perceived knowledge of customers forms this gap. Gap 2 is service and expected service. the difference between the company's perception of customer expectations and customer-driven As a developer of the doorstepping pickservice designs and standards. It mainly relates up service, I want to ensure that customers to the service design of properly transferring are satisfied with the service throughout the user needs to a service system. Gap 3 is the gap entire process, from placing their order online

to physically handing it over to the pick-up user recognition and customization) greatly affect personnel. Therefore, the service can be divided into two main parts: online ordering and offline al., 2003). On the other hand, a previous study pick-up.

applied the Servgual model to website design but that expectations for tangibles, such as the and found that factors such as navigation, appearance of vehicles, equipment, and facilities, search options, structure, the ability to assess as well as the appearance of personnel, differ the trustworthiness of the service offered, and significantly (Meiduté-Kavaliauskiene et al., 2021). personalized attention to customers (such as

the service quality of a website (van Iwaarden et by Meidute-Kavaliauskiene et al. has shown that customer expectations for offline logistics Regarding online ordering, Van Iwaarden et al. systems in terms of responsiveness do not differ

### How did SERVQUAL model helps the project

Knowing that there can be 5 gaps in service design, it serves as a guidance to me when I design the service. By coding the interview scripts in Chapter 4, user's viewpoints are gathered, which minimizes Gap 1 between perceived expectations and customer expectations. In order to minimize Gap 2, insights from the interviews are transformed into opportunities and needs after coding. In Chapter 7, detailed service scenarios and blueprints help translate design concepts into reality to minimize Gap 3. In Chapter 8, adjusting the promotion strategy helps minimize Gap 4. Finally, the implementation strategy roadmap addresses the mismatch between perception and expectations to minimize Gap 5.

### 3.2.2 Customer journey

Under the era of increasingly complex customer To create a CJM, start by examining interactions behavior, previous study has shown that it's good from the customer's perspective and identifying opportunities for improvement (Temkin, 2010). This to develope a customer journey map (CJM) to get an understanding of customer experience process begins with collecting internal insights (Lemon et al., 2016). Van Boeijen mentioned about the service and developing a hypothesis. It's that it is helpful to construct understanding and important to note that all relevant stakeholders resulting visualizations to discuss insights with across all functions and channels should be kept audience (van Boeijen et al., 2020). Therefore in in the scope. In addition, any gaps in existing order to analyse seller's viewpoints throughout research should be identified. When integrating the selling process, as well as mapping all related insights from customer research, it's helpful to touchpoints into a linear timeline, CJM can be use different methods to gain insight and fill any a usefull tool. This method help to detect which gaps. Finally, it's crucial to map valuable insights touchpoints are more or less critical to customer into a CJM. During this stage, it's important to experience (Rosenbaum et al., 2016). avoid adding too much detail and strive for visual clarity to ensure the CJM is user-friendly for your audience.

How did customer journey helps the project

In Chapter 4, under the guidance of CJM, I divided the service into 3 stages and compared the differences and similarities between interview results and previous work to summarize design opportunities. This allowed me to generate a CJM for each user profile. By comparing these customer journey maps, I further generated ideas.

# 04 Synthesizing

4.1 Insights in previous study 4.2 User interview 4.3 Clustering 4.4 User profile 4.5 Reclustering 4.6 Insights from 3 user profiles

### 4.1 Insights in previous study

Coming back to the research question: "How can Valyuu meet the needs of pre-owned product sellers through appropriate means to achieve payment, high payment, paid as estimation, efficiency, ease, and resonance of branding in friendly pick-up man, free shipping, trustworthy doorstep pick-up service?", we have already discussed Valyuu's outstanding points and the Kano model, they can be classified as mustchances detected in the competitor analysis. And this chapter will mostly focus on investigating people's viewpoints on what constitutes a good them and I created a survey to investigate. selling pre-owned product and doorstep pick-up service.

SERVQUAL model mentioned that there's usually a gap exists in service design because the questions related to the eight features, and asked company doesn't know what customers what.

there were already some features of the user needs detected. They are distributed among many

qualitative data, I found eight high-frequency appeared features: easy process, immediate platform, and getting everything sold. According to have needs, performance needs, or delighted needs. I'm curious about how people perceive

I invited 6 friends of mine who have sold preowened digital products before to complete the survey. Method-wise, I arranged paired participants to rate their level of satisfaction if they have or do not have the specific feature. To get a start, in Valyuu's previous research, The responses were rated on a scale of 1 to 5, indicating whether they loved or hated the situation. I used a matrix (see figure 4.1) to see how they view each features in their mind. I

### Dysfunctional (feature absent)



mapped each person's results seperately.

Horizontally, it represents what people think if the Therefore we can get an result for each person feature is presented. Vertically, it represents what of what they think. After getting the outcome of people think if it is absent. Aside from the 3 kinds each of the features per person, I combined them of features that have already been mentioned in into one form to see how many people perceive a Kano model, "indifferent" means customers don't certain feature as a must-have, performance, or care and "Reverse" means if features exist, they delighter.

### Results of the analysis

Out of the 8 features, easy process, immediate payment, high payment, friendly personnel, free shipping, and selling everything are considered to be delighters. However, one individual believes that immediate payment must be a must-have feature, while 1-2 people consider the remaining features as performance. Additionally, individuals perceive paid as offered and trustworthy platform as less important.

### 4.2 User interview

Taking the key features detected in Chapter 4.1, in order to gain a deeper understanding of the selling and doorstep pick-up, we organized 2 rounds of interview session.

4.2.1 Interview round 1

### Qualitative research of interview round 1

Goal: Obtain an overall understanding of doorstep pick-up and people's past experiences of selling pre-owned products.

Result: We interviewed 6 participants with experience selling different kinds of preowned products and having different doorstep pick-up experiences.

will annoy customers.

### Interview guide

Before the interview session, participants are provided with a sensitizing sheet in which they can put their sold pre-owned product and recall their selling memory. The interview is conducted in a semi-strucutred way, namely the interviewer would response to the interviewee or continue on asking deeper questions according to the interviewee's answers. The interviewer first ask for interviewee's basic information like age, living place and products that they've sold to others. Afterwards, a interactive conversation will take place under the guidance of the following questions:

- Why you initially bought this product?
- · Why do you need to sell this product?
- · Through what ways or channels did you sell it to your buyer?
- · Difficulties/Complaints during the process?
- Nice things during the process?
- · What's your feeling after you sell it to others?

### 4.2.2 Interview round 2

After gathering contextual knowledge of selling pre-owned products and doorstep pick-up, we rephrased our interview guide and questions to better understand detailed perceptions of these areas.

### Qualitative research of interview round 2

Goal: Obtain deeper knowledge of people's perceptions of different stages in selling preowned products as well as doorstep pick-up experiences.

Result: We interviewed 8 participants with experience selling pre-owned digital products.

### Interview guide

The process will basically follow the last round. But questions will be more detailed and the whole session will be more struced.

### Theme 1: Overall selling process

- Q: For demographical purpose, could you introduce yourself (your age, where you live and what did you sell to the platform/Valyuu)?
- Q: What was the selling experience?
- · Q: How did you feel about the process? Follow up questions: Why? Any nice things during the process? Any difficulties during the process? Prons and cons of using this platform/Valyuu?
- · Q: Have you ever thought of using other platforms? Follow up questions: Why you finally came to this platform/Valyuu?

### Theme 2: Pre and during selling

- · Q: What are the important factors do you expect during your experience of selling pre-owned products? · Q: Are they met during your process of selling to the platform/Valyuu?
- Follow up: Is there an impressive moment during your experience? · Q: How did you communicate with the platform/Valyuu?
- · Q: Where did you hear of the platform/Valyuu?

### Theme 3: Post selling

- . Q: How do you feel about the time gap of start selling to get the payment?
- · Q: Do you want to sell again to this platform? Follow up: What factors or reasons make you think of this?
- · Q: Would you recommend to others? Why?

### Theme 4: Ideal service

- · Q: Could you tell me about an impressive service you've experienced before?
- · Q: What will be your ideal experience of selling your pre-owned products?
- . Q: How would you define "easy" in selling experience?
- · Q: How would you define "efficient" in selling experience? Q: Have you ever felt resonated with a brand?
- Follow up: What are the impressive branding experience in your mind? (Convention/pop-up activities/package designs) Q: What do you think of a doorstepping experience?
- . Q: What do you expect from pick-up man?
- Q: Would you perfer offline hubs around the city that your can bring your products to and ask for help, or a doorstepping people to pick up your product?
- · Q: What do you think of donating part of your payment to charities?

After listening back to the interview record and stored as different colors and shapes on postscanning through the transcript, important quotes its. This helps to trace back to the original data were highlighted and a coding was fomulated in transcripts and therefore easier for the later on according to it. Each participant's codings are works.

### 4.3 Clustering

Figure 4.3.1 shows that all codings gathered Insights from "pricing" and "platform being wellfrom participants were clustered into 15 themes: known" mainly focus on the pre-service stage "efficient process", "easy process", "related since they serve as triggers for sellers to think people", "logistics and shipping", "ToB and about the platform or consider selling pre-owned ToC differences", "platform being well-known", products. "clarifying", "extra value", "communication", "pricing", "branding", "payment", "selling factors", Insights from "payment" and "related people" are "service design", and "donation".

These 15 clusters were mapped into different stages in the user experience flow using a Insights from "clarifying", "donation", and "extra customer journey map (CJM) (see figure 4.3.2) that was divided into three main stages: preservice, service, and post-service.

Insights from "efficient process", "easy process", "communication", and "service design" cover all three stages since the insights from these clusters from "logistics and shipping" cover both the apply to the entire user experience.

relevant to the service stage, when buyers and sellers physically interact with each other.

value" are mostly mentioned after the service in order to build trust and encourage customers to return to the platform.

Insights from "platform branding" cover both the pre-service and service stages, while insights service and post-service stages.





Figure 4.3.2. Overall customer journey

### 4.4 User profile

While in the interview stage, there are some efficient but probably less payment, and selling to significant differences between the interviewees. personnel means hassling on communication and Some of them sell to business platforms while price negotiation. This allows us to understand some of them sell to personal buyers. This creates interviewee's selling background and thus big difference in their view and perception of compare between them. certain experience. Therefore, I'd like to dived the interviewee into different groups and cluster their The horizonal axis stands for people's viewpoints insights again to see the difference among them. on selling price. Price is a highly mentioned factor To understand the difference, figure 4.4.1 shows in the interviews and most people mentioned the two axis underlying these profiles. that the first thing come to their mind during the

selling process is how much their product worth. The vertical axis stands for their selling channel, While there are also people who simple want to namely if they are selling to a business or a get rid of their products and don't care about personnel. This forms totally different experience price that much. And this is not related to the because usually selling to business would be more different channels through which they sell.



Figure 4.4.1. Matrix of user profile

Figure 4.4.2 shows the 3 profiles. Detailed introduction of the 3 users can be viewed below. In order to provide a comprehensive understanding of each of them, their position in the matrix, quotes from the interviewees, and a detailed description of their main characteristics can be seen in the poster. By examining these elements, the diverse perspectives and unique qualities of each profile can be detected when comparing them.





**Passionate Connectors** 



Passionate Connectors are not particularly concerned about selling prices. Their biggest need is to get ride of the batch of pre-owned products in bulk. Usually this behaviour villoccur frequently during a certain period of time, such as when moving to a new place. For them, they prefer to massively sell their pre-owned products away, which will save time and reduce hassle for them.

They would say

Sell all kinds of product Not caring too much

Figure 4.4.2. User profiles





Whole process guaranteed

### **4.5** Reclustering

After clarifying the characteristics of each user profile, I reclustered the codings (see Figure 4.5). I grouped together the coding of participants from the same user profile and compared how people under different user profiles have different viewpoints within the same theme in the original cluster.



All participant's clustered codings

Elite Reseller's coding clusters

Charm Merchant's coding clusters

Figure 4.5. Divide the coding according to 3 profiles

The details of the participant's viewpoints of the 3 profiles and the difference and similarity among them can be found in the following chapter.



### Passionate Connector's coding clusters

# **4.6** Insights from 3 user profiles

The SERVQUAL model mentioned that there can be a gap between perceptions of the consumer expectations and translation of perceptions into service specifications. In order to minimize the gap, I looked into the difference between the detected insights and previous work, and to generate related design opportunities. In this way, needs are translated to service design opportunities in a solid way in order to prevent

			Doorstepping pick-up - Elite Reseller		
Construct	Definition	Evidence	Previous work	Differentiation or elaboration on previous v	
Brand promotion	Sellers are easily to be amazed by a brand through <b>visionary image</b> as well as the <b>well-expressed brand message</b> that caters to the society.	"but the thing behind the product is that there is like an impact because you contribute to cleaner ocean. So there's like a really yes. So there's a really sustainable element behind it." (12) "This time I received an Apple gift card was the first time I realized there was a sticker inside. I like these small details because they show Apple's culture." (7)	Brand design as well as intangible attributes influence brand perception. (Seimiene and Kamarauskaite, 2014; Balakrishnan et al., 2009)	Nowadays, companies understand the importance of establishing a br clarifying intangible attributes, such as the brand message. However, company, currently lacks marketing experience. Valyuu's brand assets internally as guidance for employees at present.	
Clear instruction and terms	Stating <b>regulation and instruction</b> beforehand makes the whole process clear for sellers.	"I am a relatively traditional person and I have always felt that this kind of second-hand transaction needs some assurance. I don't think Apple has any reason to argue with me. As a big company, it doesn't need to do this. Apple trade-in is very clear and has a very clear regulation. All I have to do is go there, give them my phone, and they will give me money." (7)	Assurance statment affects e-commerce consumer's concern. (Mousavizadeh et al., 2016)	Previous studies have suggested that assurance statements help build The idea is to present assurance statements, such as regulations and other related information, <b>in a more prominent way to users.</b>	
User-oriented reservation	Doorstepping reservation needs to be in <b>specific timeframe</b> so that users won't spend much time waiting. Also prevent frequent reservation reminders.	"like, pretty like some delivery service. Give it a time box like 4 hours, which is ridiculous. I cannot stay for 4 hours because I've things to do. I'm called 24/7 for my own job. So, I mean I cannot spend 4 hours sitting in one place when there's a problem at the airport." (11)		To the author's knowledge, the literature has not specifically discusse timeframe and reminders in the context of doorstepping pick-up.	
Staff being a brand identity	Pick-up man is expected to be <b>friendly</b> , <b>honest, and precise</b> . They are considered as a <b>brand identity</b> .	"updated and precise your delivery pickup service person is coming in an hour and then two hours you're still not there I'm maybe get quite irritated by which is not really justified maybe. " (12) " If you are from a big company, I expect you to at least provide your employees with uniforms so that I know which company they are from. " (7)	The brand image and identity have a positive and significant effect on customer purchase decisions. (Supardin, 2022)	The staff in the company also contributes to the brand identity. Unlik assets like a logo or advertisement, a pick-up person interacts directly Therefore, it is crucial for them to <b>understand the brand message</b> , as doorstepping interaction can leave customers with a favorable impres	
Transparent information	People like <b>instant payment</b> and look for <b>clear trace of the payment</b> information.	"So if you have like a page or something that notifying that this one has been sold Or at least send me payment notifications." (11)	Transparency of financial information is a key factor in building customer's trust. (Kundeliene and leitoniene, 2015)	Under this construct, the interviewees mentioned specific perceptions <b>information</b> , such as payment traceability. Transparency, in our contex providing clear and direct information about the offered price, paymen destination of the pre-owned product.	
Emotional value	People feel <b>happy and satisfied</b> after they get payment from selling.	" But I'm happy that the product and enlong its lifespan." (10)	Positive emotions were more effective in driving people towards sustainability. (Rakib et al., 2022)	While the literature mentions that positive emotions motivate people, engaging in sustainable behavior also generates positive emotions. Th positive cycle for sustainable behavior.	



The sequence of the constructs follows the stages from pre-, during, to post-. We can clearly identify the needs and opportunities that customers desire during this experience. This evidence serves to support the creation of the customer journey map.

### **Elite Reseller's customer journey**

Scenario: a doorstep service when he sells his pre-owend device to a platfrom





### Pre-owned product selling - Charm Merchants

Construct	Definition	Evidence	Previous work	Differentiation or elaboration on previous
Storing products	Sellers like to <b>store</b> products and hope to sell at one time. This usually happens when there's a <b>trigger</b> like moving house.	" But if the pick-up person also gathered all the products it would be nice. My cost of time is bigger than my earned money. " (1)	Numbers of consumer electronics are just stored at home and become waste (Ylä-Mella et al., 2022)	People often ignore their used electronic products until they reach a p feel the need to get rid of them. This creates <b>an immediate need to pa</b> <b>these items.</b>
Guarantee	Verify or label the product and seller to guarantee the process.	"I can just give it back but because they send like already the label with it so you can put it on the bag and just send it without you printing anything or having to do anything, it makes it easier if you had a problem and you contact their customer service." (13)	Product labelling schemes are regularly offered as a solution to support circular economy. (Meis-Harris et al., 2021)	The concept of labeling, as mentioned in literature, can be applied to t daily behavior. This can also be related to selling platforms by <b>using v</b>
loyalty programs and rewards	Reward system and balance system would make customer come to the platform again.	"For example, if you give them two coins, they will reserve the book for you. When it becomes available, you will have priority. I like these small features and find them useful." (9)	Loyalty programs aim to increase customer retention and encourage repeat purchases. (Griffin, 2005)	The payment system can be seen as a way to build loyalty, as most per to earn money. Therefore, in e-commerce platforms, <b>using payment a</b> is beneficial.
Troublesome in-person interaction	Negotiate the price to reach a consensus is somtimes <b>time-</b> consuming and troublesome.	"And people tried to cut the price down all the time which is very troublesome to me. So that it left me with the feeling that I felt it pretty difficult. I'm not a customer service so I don't want to reply to you all the time. " (6)		To the author's knowledge, previous theories have not focused on the that in-person negotiation can have on the selling experience. Negotian <b>harms selling efficiency.</b>
Keep the promise	Feel <b>hasseled</b> when facing negative attitude and not keeping appointment.	"a lot of people ask a lot of questions and sometimes they might waste your time, they sometimes make appointments to come and pick something so you're waiting for them and then they don't come. " (13) "She, I felt that it was a little bit disrespectful of her because I was waiting for her and she did, she didn't come." (13)	Trust is an important aspect for successful business relationships in the current turbulent marketing environment. (Ashnai et al., 2016)	This need for trust and keeping promises applies not only in a busines in <b>customer selling contexts,</b> to avoid one-time deals and maintain a image.
Offline being safe and easy	People like to sell to friendly people, and to whom understands them. Face- to-face handing over would be convenient and direct.	"It was pretty impressed to me that the girl was firstly asking a lot to me and I thought she's a bit hard to deal with. But it turns out to be that physically she was a nice one even though she asked a lot. She not behaving that same online compared to offline." (1)	Online retailers can select physical store mode to make customers better experience the product. (Fan et al., 2019)	Not only retailers, meeting and experiencing product in C2C selling als <b>efficiently finish the buying experience</b> and in-person meeting is con <b>direct and easy</b> than online chatting.
Form friendship and realize self value	Selling may build friendship and realize self-value of being sustainable.	" Even though I sold for just 30 euro, I still think that it's nice to make it usable to others." (1)		To the author's knowledge, the mindset of realizing self-value through behavior has not been specifically discussed in previous studies.



### Charm Merchant's customer journey

Scenario: A selling process of meeting with buyers physically to sell a pre-owned product





Construct	Definition	Evidence	Previous work	Differentiation or elaboration on previous v
Purposeful selling	Sellers are <b>purposeful</b> to get rid of their pre-owned product.	"Because I have a strong purpose, I hope to have less contact with them, preferably no contact at all. " (8)	purposeful behaviour requires a single valued objective. (Jensen, 2001)	The primary objective within our context is to effectively manage prod this goal, people generally do not place as much importance on factor communication or payment.
Consistent in selling and buying	People who have a habit of buying pre- owned products also like selling them.	"I need to use them. My screen was too small so that I bought my monitor. I bought them as second-hand product as well." (5)	Habitual behaviors demonstrate the strongest effect on e-waste recycling intention. (Aboelmaged, 2021)	Knowing that habitual behaviours contributes giantly to people's inten green, we say it also leads user to <b>connect buying and selling</b> , thus to <b>user experience in this sustainable experience</b> of selling pre-owned p
Trustworthy logistic	Sellers want the logistic to be trustwothy.	" Because it is JD, their doorstep service is more reliable, and JD has a good reputation. Their partner is also reliable. They come to your doorstep, you pack the item, and they take it away. They also help with packaging. That's it." (9)	The relationship between online trust and perceived risk is important for consumers' purchase intentions on platforms. (Lăzăroiu et al., 2020)	While logistics may be considered a secondary factor in online busine for consumers to establish trust. A logistics company <b>with a good rep</b> <b>positively impact the selling experience</b> .
Automated selling	In order to archieve easy and efficient selling experience, platform needs to consider <b>automated selling</b>	"One factor is that I can order with just one click, and the platform already has my personal information so I don't have to fill in my address information." (9)	Digital adoption can influence salespeople's interactions with customers and benefits will vary for different buyers. (Singh et al., 2019)	When implementing digital automation in the selling process, it is impouse user acceptance and determine which aspects can be automated and human involvement.
Knowing full story	Sellers are happy to know the full process including where the product goes in the end.	"Déjà vu builds a community, so if someone buys your book, you receive a message telling you who bought it. Although I didn't pay much attention to this, I think this experience is better than some other platforms." (8)	In e-commerce post service, it's a chance to build relationship between retailer and consumer. (Ferraz et al., 2023)	To build a relationship, there are some suggested ways like effective of addressing consumer problems promptly. However, we believe that th play an active role as an initiator of the relationship. It's beneficial for t proactively share product information to demonstrate trustworthiness they care about the consumer's satisfaction.

### Passionate Connector's customer journey

Scenario: A selling process of the doorstepping process when they sell pre-owned products to a platform





# 05 Design Refining

5.1 Design direction5.2 Problem refining

### 5.1 Design direction

Valyuu is presently targeting are "Elite Resellers" who aims to sell to platform while looking for directions that can be considered. a high price for their used device. Therefore, in

It can be detected that the closest group at which order to develope a service that suits to the target group and gain benefit for Valyuu, there are 2

### **Direction 1**



Figure 5.1.1. Direction 1, transforming Charm Merchants into Elite Resellers

Direction 1 focuses on transforming "Charm include some Charm Merchants' insights in the Merchants" into "Elite Resellers" (see Figure 5.1.1). Both groups belong to the positive direction of the mention during the interview. For example, by horizontal axis, which means they both prioritize the price of the product. However, they differ in customer relationships and providing personalized terms of the channels of sales they use.

are several strategies we can use. One approach is to help them realize the advantages of selling on the platform. On the other hand, we can also value to them.

doorstepping service, which Elite Reseller didn't emphasizing the importance of building strong service, we can create a more engaging and effective sales experience for our sellers. By To turn C2C users into platform sellers, there incorporating these insights into our business model, we can ensure that we are meeting the needs of a diverse range of users and delivering

### **Direction 2**



Figure 5.2.2. Direction 2, scope the Elite Resellers down to Valyuu's user

In direction 2, identifying that Elite Resellers are Merchants, we also need to strengthen Valyuu's Valyuu's target users, we hope to attract as many unique advantages. Based on the conclusions of these target customers as possible to our from competitor analysis, we can learn from the platform for selling (see Figure 5.2.2). Therefore, strengths of direct competitors, thereby enhancing in addition to incorporating insights from Charm Valyuu's unique competitiveness in the market.

### 5.2 Design brief refining

Previously, we posed the research question: "How both online and offline settings helps to achieve can Valyuu efficiently and effectively meet the this goal. There are two clear directions from needs of pre-owned product sellers while creating which we can design this new mode. Therefore, by a strong brand image through doorstep pick-up incorporating these directions, we can refine the service?" Based on previous research, we can see design goal as follows: that introducing a new selling mode that includes

"How to maximize seller performance and conversion on Valyuu's platform through doorstepping pick-up service?"

### Sub-design goal 1: Maximizing seller performance

To focus Valyuu's target audience on Elite to identify their unique strengths that Valyuu Resellers, it may be useful to measure seller currently lacks. By integrating these strengths performance on the platform. To differentiate into Valyuu's context, we can attract more Elite Valyuu from its competitors, we can incorporate Resellers. (see Figure 5.2.1) insights generated from competitor analysis



Figure 5.2.1. Maximizing seller performance

### Sub-design goal 2: Enhancing conversion

On the other hand, it is also a goal for Valyuu to 5.1, one way to do this is to compare the different convert Charm Merchants into Elite Resellers, thus insights between Charm Merchants and Elite enlarging the targeted group. As stated in Chapter Resellers. (see Figure 5.2.2)



### Design requirement list

Throughout the research and refinement process, from context research as well as interviews. The we have already identified insights, views, or needs of users should be properly translated into wishes from users that would guide the direction the service system. for the final concept. From these, I would like to (3) Details in service design should be clarified in create a service design that properly translates order to make it easy to implement. user needs into practice. Below is a list of (4) The design should take efficiency, ease, and required attributes that the design should meet on brand resonance into consideration. a basic level, namely "must-have" attributes. (5) The service should help build Valyuu's

Required attributes:

(1) The design should be based on the present (6) The design should be in a financially workable experience of Valyuu users and make it userstrategy. friendly for the target group. (7) The service should be affordable to customers.

(2) The design should refer to and reflect insights



Figure 5.2.2. Transforming Charm Merchants into Elite Resellers

brand image as well as brand impression and trustworthiness.



6.1 Ideation approach 6.2 Analysis from previous research 6.3 Co-creation session 6.4 Conclusion

### 6.1 Ideation approach

### 6.2 Analysis from previous research

Figure 6.1 shows the flow of the ideation process. After receiving the basic design approach from the previous chapter, I integrated personal brainstorming and a co-creation session within with. The previous co-creation session also helps the company to gather ideas. In this way, the ideas will cover aspects of creative thinking as well as theoretical analysis. Individual brainstorming helps me take a step back to the original problem and see the big picture. The co- After selecting the ideas, a scenario is generated creation session involves different thoughts from people with various backgrounds, such as data science, engineering, marketing, etc.

Once the ideas have been gathered, I work with my mentors to establish guidelines for clustering and selecting the ideas that I can move forward in determining these guidelines. Therefore, the ideas that meet the guidelines will be selected and integrated into a desired service.

from them. Also, because the ideas from the previous stage are randomly written with different abstraction levels, generating a scenario also helps to level them and make it easier for me to continue with the detailed blueprint design.



Comparing the 2 user profiles, we can start by seeing from the 3 service phases: pre-doorstepping, doorstepping and post-doorstepping. From the evaluation of the interviews, we can see that Charm Merchants care more about customer guarantee, user rewards, pick-up man's interaction skill, sustainable value, etc. compared to Elite Resellers. Figure 6.2.1 are some ideas based on this finding.



Figure 6.2.1. Ideas generated from comparing 2 profiles



Figure 6.1. Steps taken in the conceptualisation

6.2.2 Ideas from Scoping down Elite Resellers to Valyuu's target group

Seeing comments from Trustpilot and experiencing competitor services, I got some inspirations from them. Taking Valyuu's identity into consideration, ideas in Figure 6.2.1 are generated as ways to convert more customers into Valyuu's scope.



Figure 6.2.1. Ideas generated from scoping down Elite Resellers

### 6.3 **Co-creation session**



Figure 6.3.1. Steps in co-creation session

To gather creative ideas from both a business and innovative perspective, I organized a co-creation ideas on the refined problem of "How to maximize session and invited Valyuu employees, as well as seller performance and conversion on Valyuu's a student from the faculty of Industrial Design Engineering at Delft University of Technology. The

purpose of this session was to generate initial platform through doorstep pick-up service?".

### 6.3.1 Session planning

The session is divided into three parts: problem finding, idea finding, and acceptance debating. (see Figure 6.3.1) As the facilitator and problem 1)/"seller performance" (group 2). This method owner, my first step was to help the participants fully understand the context. Before the session began, I presented the three user profiles and two directions to the participants. This approach generated an overall understanding of my research problem as perceived. on the topic. The participants were later divided into two groups, which brainstormed ideas for the two directions.

Part 1 Problem finding

After people were divided into separate groups, I presented my problem to them. For each of customer conversion. the groups, participants were asked to write

down their thoughts around two central words, "pick-up service" and "conversion" (group was introduced by Heijne and van der Meer as "Flower association". This step mainly served for participants to get a deeper understanding of the given problem and prepare them to rephrase the

As a result, group 1, which worked on conversion, rephrased their problem as "How does a financially healthy pick-up service maximize seller conversion, retention, and increase brand visibility?" They were interested in figuring out financially workable solutions to attract more people to come to Valyuu, and therefore enhance Group 2, working on maximizing seller performance, rephrased their problem as "How to maximize high customer loyalty and high referral while picking-up high-quality products in the highest quantity?" On the one hand, they would like to increase existing customer loyalty to the brand. On the other hand, they are also thinking about ways to make customers sell more products.

### Part 2 Idea finding

Based on the rephrased problem, each group brainstormed solution ideas accordingly. Additionally, they were also asked to come up with criteria from which people could judge the ideas. Based on the top 2 selected criteria, participants were asked to plot all their ideas in a matrix which 2 axes are marked by the 2 criteria. The outcome can be seen in figure 6.2.2.

In this part, participants in the two groups pitched their finalized solutions to each other. People were set with the role of "customer", "service provider", People dot-voted their favorite ideas and and "pick-up man". Taking the role, people in the clustered some of them, saying the similar things other group judged if the idea catered to their or can be combined. Since people have selected needs or if there were some problems left. Then the criteria, it's interesting to see that most the solution became clear to me as a problem selected ideas appeared in the top right corner, owner. I planned to take these finalized ideas as a which is considered to be both in a positive side start and inspiration for my concept. for the 2 axes. People later on dug into the topvoted ideas and finalized them.





Figure 6.3.2. People in the co-creation session

### Part 3 Acceptance debating

### 6.3.2 Session outcomes

this session. I started gathering ideas during the the selected final ideas, I also kept the rest of brainstorming part. Even though some of them them in my process to serve as inspirations. may not be selected as top-voted, they still

Outcomes are the most valuable outputs from inspire me from different perspectives. Other than

### Criterias when judging ideas

### Group 1's criterias



Figure 6.3.3. Different group's criterias

ideas. Interestingly, although people wrote down characteristics. User satisfaction and happiness different points, the top selected ones were pretty are related to customer loyalty and perception of similar. Group 1 voted for a unique proposition user experience. We can roughly see that the two and user satisfaction, while group 2 thought matrices have similar horizontal and vertical axes. competitive advantage and customer happiness And the top-right corner is considered to be a mattered most. Comparing the selected pairs, sweet spot for this project. The voted ideas from a unique proposition leads to a competitive the session are listed below.

Each group wrote down criteria for judging the advantage, indicating that they share similar



Figure 6.3.4. Ideas generated in the session



Figure 6.3.5. Clustered ideas in the session

### 6.4 Conclusion



After gathering all concepts from previous stage, I clustered them into 3 categories. There are musthave, performance, and delighted needs in Kano Cluster 1. Must-have ideas model as described in Chapter 3. The clustering method was referring to this model. "Must-have" ideas are ideas related to the basic structure of this service and can be tested out in the MVP version. "Performance" ideas are more difficult These are ideas that can be directly integrated to realize than "must-have" ideas considering Valyuu's present resource, but is good to keep in the roadmap and develop in the future. "Delighted" ideas pointed out a good direction to develop but and implemented rapidly. still needs to consider some better ways to realize

considering the reality.

These ideas touched upon aspects like timeframe choosing, process exposure, pick-up man behaviours, endorsements and encouragement. into the service. After discussing with company employee, those ideas are considered as basic infrastruction of the service and can be tested

### Cluster 2. Performance ideas

These ideas touches upon increasing customer's engagement. Ideas like reward system building and voucher offering are good ways to realize engagement loop but these ideas still needs some time to build and implement.

### Cluster 3. Delighted ideas

As stated in previous chapter, doorstepping service is not a new thing, but it is new to Valyuu. Therefore during the ideation phase,

we considered not only ideas to build the basic structure of the service, but also ideas that can make Valyuu's doorstepping service stand out from competitors. Deligted ideas mostly covers this aspect. During the discussion with my mentors, we found out some of them may be hard to realize, but the aim of this idea can be useful and we can consider other ways to realize it. Also, ideas with an exclamation mark are presently outside the scope of doorstepping pick-up service, but they are good to keep when Valyuu develops further.
# 07 Conceptualization

7.1 Service senario 7.2 Special condition and solution 7.3 Blueprint

# 7.1 Service scenario



#### Max places an order and notices the service.

After Max successfully placed an order, there are 2 options offered for him: send the device himself or doorstepping pick-up service, which charges a 3 euro fee. Max is worried if there are problems happening during the shipping process, he chooses the doorstepping service.



#### Once confirmed the timeframe, Max receives a confirmation email

The email includes when and where the pick-up man will come. Also the seller is able to see the profile of the pick-up man.

#### This is Max.

After buying a brand new iPhone, Max decides to sell his old phone away. He has never used pre-owned product selling platfroms before. But he heard Valyuu from his friend and decided to have a try, because Valyuu offered a high price for his used iPhone. He's totally new to Valyuu, but thanks to the clear guidance, he's able to complete the whole user flow.



#### Max selectes the doorstepping timeframe

There are different timeframes offered for customers on Valyuu's website.

> . 0 2 RESERVATION THE 11:30-13:00 6



doorstepping.

#### There's a notification before the pick-up man coming to doorstep. Max is able to see the movement of the pick-up man

On the date of doorstepping, Max receives a notification saying that the pick-up man is approaching, and he will arrive in 30 minutes. There will be a reminder for him to clean his account and data as well.



#### After testing, payment is transferred to Max.

Since Max chose the immediate payment plan on the website, the payment is directly transferred to Max's account after testing.

#### Max cleans all personal accounts and data

Before selling to Valyuu, Max cleans his iClould account and backs up his personal data in his old phone. This will make the process of testing easier for the pick-up man when



#### Pick-up man tests the device in front of Max.

Pick-up man makes everying clear to the seller at doorstep. The whole process will last for 15 minutes.



#### Max gets a ceremonial feeling when he finishes the process

Since Max's description of the device's status matches with what was tested out, he is offered with an extra voucher. Max is happy when he finishes the selling process and is very satisfied about the payment and voucher he got. He also gets an invitation to the membership since he's a first-time seller on Valyuu.



# 00

#### Few days later, Max sees his device was sold out.

Even though Max's user flow literally ends after he got the payment, he can still view the life cycle of his old phone. He knows that after recycling, Valyuu fixed some problems and later on it is sold to someone else. This clarification gets him know more about Valyuu's recycling process and fullfill his interest in where his device go in the end.

#### As a member to Valyuu, Max is able to get extra bonus, latest information, etc.

Special membership authority allows Max staying connected with Valyuu's platform and promotes possible second-time consuming on Valyuu.



# 7.2 Special condition and solution

7.2.1 The seller forgets to clean the account or data

#### **Q** Condition

It will cost a lot of extra effort and time if the user Create a reminder for user to clean their account don't clean their account or data. Though Valyuu and data in the recomfirmation email before is able to forcely clean user data, it's impossible doorstepping. Stating that the backup time would to clean it if user's account is logged in. Therefore be cost around 1 hour or more. it's crucial for users to clean their personal thing in their device before they sell to Valyuu.

7.2.2 The seller's personal information is not entered properly

#### **Q** Condition

When user entering their personal information 1. Backstage verification: Reconfirm that the like delivery address manually, there can be user's address/number is valid by using a some mistake during the process from previous background database. competitor analysis. It would create some hassle for pick-up man during the doorstepping process. 2. Use plug-ins to automatically generate the

7.2.3 The seller is selling multiple devices in one order

#### **Q** Condition

We've known from the interview, some people do 1. State in the confirmation email that the process the selling for a business. Therefore they have will take a bit long time because of large amount the chance of selling multiple devices at the same of devices. time. This will increase the time that the pickup man spend at their doorstep and also creates 2. Clearly mark each of the device. After testing, some hassle when pick-up man needs to take the confirmation email should include clear their devices away. information of all devices.

7.2.4 Big different between the described situation and the tested result

#### **Q** Condition

It could happen that the seller is not aware of the State to the seller that the price can be different device situation or want to cheat to the platform, to the offered one, because the listed reasons the tested result is of high difference to the that is different to what he described online. described situation.

#### Solution

#### Solution

user's information from what they've saved in the browser.

#### Solution

#### Solution

# 7.3 Blueprint



Figure 7.3. Initial blueprint

As mentioned in the SERVQUAL model, there can be a gap between service design and delivery. To minimize this gap, I mapped each scene of the service scenario onto the blueprint and analyzed both the front-end and back-end aspects. This ensured that the service was solid and feasible. The evidence serves as possible touchpoints that the seller can use to engage with the service.

Looking into the blueprint from above, the user scenario is devided into 3 main stages:

1. Pre-doorstepping, namely all the action user and service provider needs to do before the date of doorstepping.

2. Doorstepping. This stage includes all actions on the date of doorstepping until the seller gets the

payment of their device.

3. Post-doorstepping. This stage focuses on the actions after the seller get the payment, including extra offers and community building.

Horizontally, the Blueprint is devided into 3 parts: service scenario, frontstage, and backstage. Service scenario shows from seller's perspective about how they behave during the whole user flow. Frontstage refers to how the service provider support the service system, which is visible to the seller. Backstage is invisible to the seller but provides supporting elements like data and algorithm that helps frontstage works smoothly.



8.1 Validation with stakeholder8.2 Concept iteration8.3 Implementation strategy8.4 Touchpoint analysis

# 8.1 Validation with stakeholder

After planning the initial blueprint for the concept, The goal of the session is to evaluate if the I invited various stakeholders to validate the scenarios and blueprint in order to assess its feasibility. Through their feedback, I hope to identify areas in the concept proposal that can be adjusted and determine if the concept addresses the problems and needs of the users.

#### 8.1.1 Participant sampling

A group of six persons participated in my evaluation session. There are in-house designer. marketer, and users who have previously used doorstep services. Their ages ranged from 25 to 40. Among them there are 3 females and 3 males. According to the Nielsen Norman Group, a minimum of five participants can effectively identify the most common problems and opportunities, which makes the combination of the session participant group workable to ensure the identification.

#### 8.1.2 Session set up

The main goal of this session is to see if the concept suits the company's roadmap and to determine the extent to which they would like to sell their product to Valyuu. The entire session lasts approximately 20 minutes for each participant and takes place via Zoom meeting.

As the facilitator, after presenting the scenario of the service to the participants, they are required to fill out a Google Form and rate various elements related to the service on a scale of 1-5. Based on the participants' ratings, the facilitator will ask open-ended questions regarding specific elements that received notable ratings for the participants to answer.

service scenario meets the following assumptions:

1. This service helps people better understand Valyuu, and it aligns with Valyuu's brand positioning: offering certainty, convenience, and memorable experiences to customers.

2. Compared to existing solutions (where customers have to send the products themselves with free shipping), sellers are more willing to complete their selling order with the doorstep service, thereby increasing conversion rates.

3. By establishing doorstep service and membership, the aim is to build more trust among users towards the platform.

Results that worth to note (averaged score <4 in In terms of company development, a financially the survey)

The results indicate that people have lower expectations for being more willing to sell to The in-house designer and marketer have Valyuu or sell more at Valyuu.

Participants mentioned in their response that they do not have a frequent need to sell electronic to validate the correctness of the model. These products. Unlike recycling old clothes and books, the demand for electronic products is much smaller. Therefore, if we want to attract more customers to increase their interactions with the Valyuu, it's good to consider expanding the product portfolio, such as recycling cables and Define the unique value proposition of Valyuu in batteries.

brand in the service scenario.

People do not feel a strong connection to the The survey results indicate that people are uncertain about the future direction of this service, and it is difficult to identify new From a market perspective, the current form of opportunities for further development at present. service is not very innovative, and Valyuu struggles As mentioned earlier, doorstep service itself is to establish brand recognition through the service not a super innovative concept. For example, itself. Additionally, the service lacks sufficient coolblue combines doorstep service with its content for users to perceive sustainability. white goods sales business to provide installation Therefore, integrating the concept of sustainability services to customers when doorstepping. Preinto the service is a crucial starting point for owned product selling platforms like Swappie iterating the concept. and [verkopen.nl](http://verkopen.nl/) collaborate with outsourced logistic companies like DHL and postNL. Therefore, it is crucial for Valyuu, considering its intention to introduce an inhouse doorstep service system, to find a value proposition that sets it apart from other ordinary logistic platforms.



3.83

This concept helps me...

- save time and money
- feel at ease and efficient of selling products
  - more willing to sell to platform
  - make the process less hassle •
- to get a user-friendly service when selling •
- get a recognition of Valyuu's brand message
  - like to sell more at Valyuu
  - feel more trustable on Valyuu
  - get a unique proposition of Valyuu as a pre-owned product trading platfrom
- feel more engaged with Valyuu's service •
- feel more resonated with sustainable behaviour •

#### This concept helps Valyuu...

- to expand it's market scope •
- gain customer in a financially workable way
- to give some new space for further development •

Figure 8.1. Results of people's rating

## workable MVP testing plan needs to be customized.

expressed concerns about the profit model and ROI of this service. Therefore, in the initial stage, it is necessary to test some basic capabilities capabilities include online timeframe selection, doorstep testing and payment, etc. Functions related to finance, such as membership and credit. can be implemented in horizon 2 of the roadmap.

## doorstep service.

#### 8.1.3 Key takeaways

#### Make the delivery process efficient and arrange it reasonably according to geographical regions.

Compared to competitor companies, we can be combined with outsourced logistics companies or large offline mobile repairing hubs into this service system. In this way, owners of repairing shops can also become part-time Valyuu test man, helping payments reach users' hands earlier.

"In areas with sparse populations, such as small towns and villages, there is a need for more efficient strategies to deal with the situation."

"If I am very close to the shipping point, I can send it myself. I don't feel this service very efficient."

#### It's good to expand the portfolio of Valyuu.

Selling electronic devices is not a frequent need at the moment. People can hardly say that they of pre-owned products, and guaranteeing the are more willing to consume or not. To let existing users understand the advantages of Valyuu and Valyuu's desire to expand the portfolio, the pickup man can ask sellers after completing testing and payment if they still need to dispose of other the process of selling or buying. small electronic waste like wires and batteries.

"I am just selling idle equipment and I will not accelerate results at the warehouse?" the upgrade process because of this service. It is not a necessity for me."

#### The service can be combined in the future For users with a large number of products to membership system.

In Valyuu's future membership system, doorstep service can become a part of it. Once users If the user purchases a large quantity of devices apply for membership, they can choose different at once, it is necessary to clarify the testing time subscriptions, among which doorstep service can be one of the benefits enjoyed by members.

doorstep services per year."

#### Pick-up men need to have a high level of devices?" professionalism to ensure that the test results are reliable.

The most important interaction in this service occurs between the pick-up man and the seller. Looking back on the assumptions mentioned in In the user research section, interviewees also mentioned that the behavior of the pick-up man represents the brand image of Valyuu. If Assumption 1: the doorstep process satisfies the seller, they will have a good impression of Valyuu and think To some extent, this service can promote Valyuu's of Valyuu when they need to sell pre-owned devices in the future. On the other hand, for the company, because there is a time difference in gap 5 in the SERVQUAL model, is crucial. between the pick-up man testing the device and the company receiving and registering the device, it is necessary to ensure the professionalism of the pick-up man in order to avoid unnecessary experience with the sellers. These will ensure disputes.

"What should be done if potential problems are not noticed customers. during the home visit for recycling?"

" The service attitude of the pick-up man is very important."

#### Doorstep recycling has multiple potential risks. Safety and effectiveness in the process need to be ensured.

Valvuu can play a role in guaranteeing various aspects during this service, such as insurance for doorstep process, insurance for test results transaction process for both parties in the future C2C model. Additionally, Valyuu's platform can provide endorsements for pre-owned products, making consumers trust the platform more during

"What should be done if the test results do not match the

"What should be done if the payment calculated by the pick-up man after the test is unsatisfactory to the seller?"

#### sell, the time required for doorstep testing needs to be considered and informed to the seller.

required with the user in advance by email. When scheduling the pick-up time, it is necessary to consider that no other pick-up missions can be "I expect to receive perks in the membership, such as 12 scheduled during this testing time around the same area.

"What should I do if I want to sell a large quantity of

#### 8.1.4 Summary

the session set up, we can detect results to them.

branding. However, for Valyuu to truly make an impact, the execution of the service, as stated It is important for sellers to have a positive experience with the doorstep service, meeting their expectations and creating a memorable that when users need to sell a pre-owned device again, they will think of Valyuu and become repeat

During the service process, the behaviours of the pick-up men represent the brand image of Valyuu. Their performance directly impacts the sellers' sense of certainty and convenience. Therefore, Valyuu should prioritize the training and performance of pick-up men to ensure that users have a satisfactory and enjoyable experience.

#### Assumption 2:

Some participants mentioned that they would prefer to sell their products to Valyuu because of the convenience of the doorstep service. However, there were also participants who mentioned that it is convenient for them to send products to hubs where they live, which raises questions about the necessity of doorstep service. From the company's perspective, there are limited resources for the development of the service. It is important to plan the number of pick-up men, city coverage, and collaboration with outsourced logistics companies with the limited resources. In big cities, pick-up men can drive Valyuu's vans to conduct doorstep tests and pick-ups. For remote areas and small cities with low demand of selling pre-owned devices, the current collaboration model with postNL can be maintained. In this way, limited resources can be maximized for pilot testing.

#### Assumption 3:

Participants mentioned that their trust in Valyuu mainly comes from the service quality. At the same time, people are concerned about liability issues during the process. Valyuu can consider incorporating a guarantee function into its business scope or collaborating with outsourced insurance companies. This way, sellers no longer need to worry about transportation risks during the selling process and the risk of discrepancies between test results and the products received by the company. Shifting the risk from consumers and employees like pick-up men to the service providers is a more reassuring approach.

# 8.2 Concept iteration

Therefore, what can be iterated to the concept are listed below:

The implementation strategy

- · Modify logistics service mode based on the regions
- · Make users aware of Valyuu's portfolio expansion

Service design

- Ensure the professionalism of pick-up men • Ensure there are no information gaps
- between stakeholders

· Allow users to have a more comprehensive understanding of the selling process



Figure 8.2. Iterated blueprint

#### Stage 1: Pre-doorstepping

The concept in Stage 1 is in relation to opportunity ER1-3 and CM1. The purpose of this stage is to make users aware of the service through external channels such as online advertisements and website banners, thus to guide them to place selling orders. This stage primarily utilizes promotions to introduce first-time consumers to Valyuu and the doorstep service, attracting them to the Valyuu platform for selling.

#### Service promotion

Promotions are divided into two categories: online placements (including external channels and Valyuu's website) and offline promotions (such as light boxes and Valyuu's van). The current mainstream channels for online placements include Google search ads, Google display ads, Facebook, Instagram, etc., but collaborations with moving companies like Atlas can also be considered. The main goal of these placements is to attract first-time consumers. Ads on Valyuu's website are used to attract existing Valyuu users and provide guidance for users brought in by external channels. Additionally, efforts can be doorstep service, seamlessly integrating the intensified during times such as the back-toservice into the existing user flow. After users school season in September and Christmas in successfully place an order, the confirmation email December to encourage people to sell their old will contain all useful information and reminders. It devices to Valyuu when moving or upgrading. should clearly inform users that they need to clean personal data and accounts before the doorstep Guidance to the service appointment, and if they are selling more than 3 devices, it may result in a testing time of more After guiding users to Valyuu, the service landing than 40minutes, setting the user's expectation

page is an important touchpoint. It introduces regarding the time required for testing. users to the basic information of the doorstep service and provides them with a convenient Iterated points are some concepts that differ from the ordering function. Furthermore, sellers will be initial blueprint. The new concept derives from the comments of participants in the validation session. asked on the checkout page if they require

At iterated point 1, a participant in the validation session mentioned that it's good to know if the seller is going to sell a bunch of devices and make them aware of the time spent at the doorstep.

### Stage 2: Doorstepping

The process of Doorstepping is the most crucial part of the entire service, as it covers the interaction between the seller and the pick– up man. The concept in this stage contains opportunities in ER4, 6, and CM2–6. The system will analyze the address filled in by the user on the checkout page. If the address is within the service coverage area, the user will be prompted to choose the doorstep service. If it is not within the current service area, the user will be provided with the option to get an onsite testing and payment at an offline hub or to send the device to the company themselves.

#### Information transparency

Once the pick-up man sets off, their information will be updated real-time on the app, allowing the seller to have a clearer view of the pick-up man's location and estimate the doorstep time. This ensures information transparency throughout the process.

After the pick-up man completes the testing, he/ she will verify the payment information with the seller. There are two types of payment transfer methods: if the user chooses the Fast Pay Plan, the payment will be directly transferred to their bank account at doorstep; if the user chooses the Best Value Plan, they will receive the payment within seven working days after the device is sold by Valyuu. All these processes will be recorded in the APP for the seller to check at any time.

#### Build Seller's Loyalty to Valyuu

If the pick-up man's testing results match the description provided by the user on the website, meaning the payment after the pick-up man's inspection matches the estimated payment on

the website, the user is considered an honest user and will receive a thank-you card with a 10% voucher from Valyuu. This means they can enjoy a 10% bonus when selling or a 10% discount when purchasing. At the same time, they will also accumulate credits for future consumption on Valyuu.

At iterated point 2, the participant in the session mentions we need to consider how to maximize the use of existing resources in remote areas to achieve the design goal of allowing users to receive payment immediately after an onsite test, making the process hassle-free. In this regard, it's a good idea to collaborate with existing electronic repair and retail stores, as the owners of these stores generally have knowledge in testing digital devices. They can apply to become test man from Valyuu and take on this job as a side gig aside from their main job at the store. Valyuu can hire them to cover areas where the service currently cannot reach, while also providing convenience to sellers.

At iterated point 3, the thank-you card is an important offline touchpoint. We hope to reach out to users through tangible and sustainable elements to create a better impression of Valyuu's branding. Therefore, aside from a user flow that could have been completed purely online, I have added an physcial thank-you card. This card is used to provide proof of the user's completed transaction, instructions for voucher redemption, and reminders for credit increase. Additionally, this small card can be planted as a metaphor for the sprouting of their ideology of going green after the user completes this selling process.

#### Stage 3: Post-doorstepping

As mentioned before, we want users to not only be one-time users, but also to think of Valyuu as their first choice whenever they need to deal with electronic waste. It is important to maintain users and ensure that their first experience is perfect. As opportunities ER5 and CM7 mentioned, after users complete payment, they can still check the whereabouts of their phone within the app and see how Valyuu handles the products they received, giving sellers transparent information of the phone's life cycle. In addition, after each firsttime user completes a purchase, we will invite them to join the membership. This way, they can receive timely updates and benefits.

At iterated point 4, there are 2 types of membership: basic (free to join) and premium (with paid subscriptions). Any customer who has made a purchase or sell on Valyuu's platform can automatically join the membership for free, which is the basic membership. They can enjoy basic rights, such as choosing whether to subscribe to Valyuu's notifications, accessing discounts and use thier credits to purchase. After users become basic membership, they can choose to upgrade to premium one for additional services, such as free doorstep service several times a year and electronic device repairing service, etc. **8.3** Implementation strategy



#### **Future Vision**

"Valyuu Doorstep: Sell your device with ease and satisfaction"

Sellers can sell their pre-owned devices to Valyuu or to other buyers on Valyuu's platform with fast and easy doorstepping pickup service.

#### 8.3.1 Goal and future vision of the roadmap

This roadmap is used to consider how to implement the service blueprint mentioned in Chapter 8.2. Due to objective constraints such as time and investment, some functions of the service cannot be implemented at the beginning. There may exist a gap as SERVQUAL model mentioned between the perception and expectation. Therefore, the roadmap divides the entire implementation into three horizons: improving experience, building trust, engaging and interacting. The future vision is divided into different implementation steps in order to make the customer's perception and expectation match with each other. Under these three horizons, each stage has a different focus for the service. Horizon 1 focuses on testing the service system and collecting user feedback to verify whether it improves selling efficiency and enhances user experience. Horizon 2 integrates more functions into the Valyuu APP and communicates with users through handy notifications. Horizon 3 emphasizes brand promotion on top of a mature service system, enhances brand exposure through offline transportation risks for sellers and buyers.

pickup and delivery behavior, and increases user stickiness within the service system.

The future vision of this roadmap is "Valyuu Doorstep: Sell your device with ease and satisfaction." Considering the development of technology and service system, we believe that this vision will be achieved in 2030. Valyuu hopes to improve the user experience by introducing doorstep pick-up service, maximizing the efficiency of the selling experience, and ensuring that more people do not give up on selling orders on Valyuu due to hassles such as needing to pack and ship items themselves or having time constraints. Therefore, one of the most important indicators for this service is seller's conversion. In the process of service development, the service will be expanded into a specific logistics service, enabling people to not only be more efficient and easy during the C2B selling process, but also providing specific delivery to the C2C market to ensure the safety of products and avoid





with membership.

#### 8.3.2 Horizons

Horizon 1. Improving experience - Building an MVP doorstepping pick-up service system that enhances the efficiency of selling a pre-onwed device to Valyuu.



The service in this horizon mainly addresses fundamental needs and provides a basic framework for the service system. This horizon prepares Valyuu to offering logistics services.

At this stage, we introduce the concept of doorstepping pick-up service to sellers and add the option of doorstepping to the original user flow when placing an order, making the process more seamless. Users can browse the introduction of the service to understand the specific operation mechanism and choose whether to use it. At the same time, basic timeframes and confirmations will be provided to users as well.

In this horizon, the pickup man will be taken over by the current inspector. Therefore, they have almost no learning cost, only need to ensure the safety of the product during transportation and the wording and behavior during the doorstepping process. This is a low-cost testing method. Also, in this horizon, we have prepared vouchers for honest sellers to encourage them to sell multiple times.



#### Time arrangement

Considering Valyuu's overall development plan, out its business model and make membership and the fact that this service is a brand new mechanisms based on user needs. Therefore, product, the MVP testing version of Horizon 1 will there is a two-year transition period in Horizons be implemented and user-tested quickly. After 2 and 3 to improve services. Valyuu's ultimate verifying the feasibility of the solution, it will be goal is to be able to acquire most types of used gradually improved to become Horizon 2 within electronics within Europe and build a C2C trading one year. As a startup, Valyuu needs time to sort platform by 2030.

#### Horizon 2. Building trust - Enhancing the service system based on developed APP system and

In Horizon 2, the App will be launched around 2024. Users can receive more timely notifications about logistics information in the APP. These detailed information can make users feel more convenient to feel Valvuu's sincerity and high transparency information, thus establishing their trust in Valyuu. During the doorstepping process, the pick-up man's attire will be more professional. reflecting the brand identity. Compared with Horizon 1, in addition to user conversion and retention, Horizon 2 pays more attention to ROI measurement. In this horizon, opportunities for future scale expansion, such as the form of pickup man and transportation, will be considered.

#### Horizon 3. Engaging and interacting - Stimulating customers on Valyuu platform to actively interact

Compared with Horizon 2, Horizon 3 enhances the details of the APP, such as real-time tracement of pick-up man. At the same time, branding promotion is also a focus in Horizon 3, enhancing Valyuu's brand awareness through customized paint for pick-up vehicles, pick-up man's clothing, and other means. In addition, Horizon 3 attempts to consolidate users by building a membership community. Users have a credit system in the community, which can accumulate credits through purchase behavior and use them in the next purchase. Such a circular economic system can maintain user retention in Valyuu. At the same time, the establishment of the community also meets the emotional value needs mentioned in the interview. Horizon 3 prepares for future user scale expansion.

# 8.4 **Touchpoint Analysis**

As described in the roadmap, we need to implement an MVP solution that can be tested. Therefore, here we have selected touchpoints mentioned in Horizon1 as examples to explain the mechanism of the service through prototypes.



The seller want to sell his used device at Valyuu. So he went to the website to check how much his device worth.



He browsed the selling page and notified a service banner.





Ads on Valyuu's selling page and service's landing page



He clicked the banner and scans through the webpage which introduces the doorstep service.



He finds the service very convenient and places an order, and used the service introduced to him.





Function pages for user to select the service and arrange doorstep timeframe





At the date, the pick-up man comes to doorstep and test the device for the seller.









After everything is clear, the seller will receive a plantable thank-you card from Valyuu's pick-up man.







#### Thank-you card for selelrs

## Touchpoint 1 Promotion Banner & Service landing page

As mentioned in the SERVQUAL model, there can be a gap between service delivery and service promotion. Therefore, it's important to remember that the promises made in promotional materials should align with the actual service. This is especially crucial when conducting external channel promotions.

While the main focus of this touchpoint design is internal promotion on Valyuu's webpage, it is also necessary to ensure that the information displayed on the promotion banner accurately reflects the reality of the service.

### The user flow



He clicked the banner and scans through the webpage which introduces the



Ads on Valyuu's selling page and service's landing page



Function pages for user to select the service and arrange doorstep timeframe







	-

This promotion banner is used to raise customer's awareness of the newly launched service. It plays a crucial role in increasing customer engagement and encouraging more people to sell their products on Valyuu. Valyuu's doorstep service aims to provide a convenient and efficient way for individuals to sell their items, saving them valuable time and effort.



## Touchpoint 1 Service landing page "About" Tab

After clicking on the banner, customers will be directed to a service landing page introducing the basic information about the doorstep service.

#### 1. Navigator

The purpose of the navigation bar is to provide sellers with a clear understanding of the reasons behind doorstep service and the benefits. Sellers who are interested in learning about the mechanism of doorstep service can easily switch to the "what to do" tab to check if their area is within the service's area.

#### 2. Benefits of doorstep service at-one-glance

In order to highlight the key advantages of using doorstep service, sellers are well-informed about the benefits right in this banner. By saving time and effort, sellers can also maximize their financial profits. The button placed next to the benefits further streamlines the order placement process, enabling sellers to quickly access the selling interface and experience the convenience of the service.

This section summarizes the advantages of Valyuu 3. Standout points of Valyuu's doorstep service doorstep service for sellers, making it an ideal choice. By using Valyuu doorstep service, sellers The standout features of doorstep service include can easily sit at home and wait for the pick-up on-site inspections and the option of immediate and testing without having to deal with the hassle payment through the Fast Pay Plan. of logistics themselves. This greatly saves the seller's time and energy.

#### 4. Clarifying rewards after finishing payment

Sellers can enjoy additional benefits such as extra vouchers and membership invitations after the payment. The 10% voucher can be used in either selling or buying.

#### 5. Devices that can be picked-up at doorstep

During the MVP testing phase, the testable devices can be limited to the existing products of Valyuu, such as smartphones, tablets, computers, etc. However, during the pick-up process, the pick-up man can ask the user if there are any other e-waste items that need to be disposed of or if they expect Valyuu to help with recycling. If so, the pick-up man can take them away when they leave. This also serves as a guick survey to understand in which direction Valyuu should expand its product portfolio in the future.

#### 6. Value to sellers

## Touchpoint 1 Service landing page "What to do" Tab

During doorstep service, it is important to confirm whether the seller's address falls within Valyuu's service area. To check if it is covered by Valyuu's doorstep service, the seller can use the map provided on this webpage. By searching for the address on the map, the seller will also be able to see the service area of the doorstep service. And since the service is developing all the time, there can be an expansion of the coverage area in the future.



About

What to do

#### See if you're within Valyuu's doorstepping scope

We only cover the doorstepping scope in big cities for now to keep our mission of being sustainable. We are still finding out solutions to cover every corner in our service scope at the same time of going green.

#### • Have a check of your location first





#### See if you're within Valyuu's doorstepping scope

We only cover the doorstepping scope in big cities for now to keep our mission of being sustainable. We are still finding out solutions to cover every corner in our service scope at the same time of going green.

#### Have a check of your location first





#### When the address is within Valyuu's service area

There will be a sentence saying that the service is available at the seller's place appeared below the searching bar. Then the seller can see the user flow of the service appears under the map. The button below will direct him/her to the selling page.



#### See if you're within Valyuu's doorstepping scope

We only cover the doorstepping scope in big cities for now to keep our mission of being sustainable. We are still finding out solutions to cover every corner in our service scope at the same time of going green.





## When Valyuu's service area is not covering the address

In order to not discourage customers, the seller is suggested to use normal shipping ways.



The whole service user flow is integrated into the original one. When filling thoro will be utra abaaluba ahaaka in information "shipping" tab choose the set whole order wi

ice user flow is integrated into the original one. When filling on checkout page, there will be an extra checkbox under for sellers to choose if they need the service or not. If they ice, after selecting timeframe, they can get an overview of the n doorstep information in the end.	The user flow	Touchpoint 1	Image: A constraint of the state of the	He finds the service very convenient and places an order, and used the service introduced to him.	At the date, the pick-up man comes to doorstep and test the device for the seller.	After everything is clear, the seller will receive a plantable thank-you card from Valyuu's pick-up man. <b>Touchpoint 4</b>
Valyuu     A secure payment       Contact     2 Shipping			• • • • • • • • • • • • • • • • •	Function pages for user to select the service and arrange doorstep timeframe	Guidance for pick-up man what to do at doorstep	Thank–you card for seleirs
Account Set a password and register your account quickly, after registration you can check the progress of your order on the website. already have an account? <u>log in</u>		< (>) c		valyuu 2 Shipping	<u>`</u>	A secure payment
Ernall       1234valine@gmail.com			You are within the	e scope of Valyuu's doorste g a 10% extra voucher if your device match		
Vanella Cook			C I need the doorst			
(15-04-1994 (+31 ~) (12345678			Vanella Cook +31 12345678 Edisonbaan 14a 343 Nieuwegein NETHER			
Nederlands     v       3439 MN     14a			Free Shipping Lal	<b>bel</b> How do you want to receive the shipping lab	pel?	
Edisonbaan       Nieuwegein			Email me and I w     Post the shipping			
Next →		•				Next ->

After the seller completes the description of the basic information for the device, on the checkout page, the address provided by the seller will be checked to see if it falls within the service area.

If it is within the service area, there will be an option for the seller to choose the doorstep service with an extra fee of  $\in$  2. If not, the seller will be directed to ship the product themself.



















Contact	>	2 Shipping	>	3 Payment	Contact
Ye				3 Payment	Payment
Th		pe of Valyuu's doorstep se extra voucher if your device matches the			Bank Account Your bank account of Account Name V. COOK  Bank Number NLOS INGB 0123-1
	I need the doorstep ser	vice. €2		) i	O Valyuu Credit
	Vanella Cook +31 12345678 Edisonbaan 14a 3439 MN Nieuwegein NETHERLANDS	3			
c	Choose Your Timefran	$\frown$	Sun Sep 17 Mon Sep 18 1 Se	; >	< C
	Vanella Cook +31 12345678 Edisonbaan 14a 3439 MN Nieuwegein NETHERLANDS	5			
(	<ul> <li>☆ Morning 7:30-10:00</li> <li>☆ Afternoon 14:00-16:00</li> </ul>	<ul> <li>☆ Morning 10:00-12:00</li> <li>☆ Afternoon 16:00-18:00</li> </ul>			
(	لي Evening 18:00-21:00	$\supset$			

#### Service timeframe choosing

When users choose to take the doorstep service, they need to choose the doorstep time. They can choose the timeframes in the following 1 month. Each day is devided into 5 sections. But if there are special conditions like a certain seller is selling multiple devices in the morning, the time cost needs to be conisdered in the timeframe display to other sellers.

All related information will be displayed on the overview page.



valyuu

Shipping

Pa

## Touchpoint 3 Guidance for pick-up man

## The user flow



According to Duffy's framework (see Chapter 4) and opportunity ER4 and CM4, building customer loyalty is crucial for the success of a business. In the service process, the pick-up man plays a vital role as they directly interact with the sellers and provide service to them. It is important for them to understand the customer and their service objectives. Additionally, the service proposition and Valyuu should establish guidelines for the pick-up man's behavior to ensure a positive brand impression on our sellers. In order to make pick-up man behave properly and finish their tasks at doorstep, the guidance can be provided to them when they are new to the job position.

 $\mathcal{O}$ What's the picking Why pick-up man needs to come to doorstep? Service Procedure? Fest the device 60  $\mathbf{O}$ 0 Ø С 20





#### Evidence to show the necessity of doorstep service

The core findings from user interview as well as concept validation that regards to the pick-up man are listed here. These quotes can make them believe that their work matters a lot to our customers.

#### Illustrations to show the steps of doorstep

Although the pick-up person is already familiar with the process of testing devices at Valyuu's office, there is a chance that they may not be clear about what to do and say when they are at the user's doorstep. Additionally, there are some specific tasks that we would like the pick-up man to do. These include double-checking if the data and account have been cleaned, offering the seller a thank-you card, and asking the seller if there is anything else they would like to sell to Valyuu.





#### The key points that sellers care about

Person-to-person interaction can be complex. It is important to identify the most important points that sellers care about during the doorstep process to ensure effective communication.

## Touchpoint 4 Thank-you card

## The user flow



After the service is finished, we would like to give the seller some physical gifts. As originally being an online-operated company, Valyuu's interactions with users mostly occur digitally. When the doorstep service provides Valyuu with an opportunity for offline contact with the seller, we want to leave users with some tangible gifts.

Therefore, we designed this thank-you card. It will be presented to the seller by the pick-up man upon successful completion of the service. This card is made of plantable paper, symbolizing that the seller's sustainable behavior can sprout. There's a QR code and a voucher number printed on it, making it convenient for users to use it directly.

# Thank you for selling to Valyuu! Plant this card and watch your eco-friendly habits Receiving this card means you are **hassle-free** from the deal. And we'd like to thank your for your effort in promoting sustainability.

# Valyuu doorstep

Sell your device with ease and satisfaction

Doorstep service offers you



10% vouche Scan the voucher QR code or enter voucher code: 5301930







9.1 Discussion 9.2 Project conclusion

# 9.1 Discussion

#### 9.1.1 Determine service area coverage

In Chapter 7, it has been mentioned that when we implement the doorstep service, the service area is a crucial factor that we need to consider. While we know that big cities have more population and have a bigger possibility that more people sell their pre-owned devices. We can research this with the digital device purchasing rate and therefore have an estimation about the digital device's abandon rate. Therefore, we can list these cities/regions and match them with the existing test people in Valyuu. In this way, we can choose some cities to start with implementing the service.

#### 9.1.2 Online touchpoint greyscale test

Before launching the service, we need to conduct a greyscale test of the online touchpoints (touchpoint 1&2). In this test, we will focus on several important points. We will assess if the banner is influencing the normal user flow and if it is eye-catching enough to attract the attention of sellers.

thank-you card during the initial several doorstepping processes. This will help us determine if the information on the card is clear enough for sellers to understand.

For touchpoint 3 the pick-up man guidance, we will invite test men from Valyuu at present to assess their understanding of the guidance and to address any concerns or doubts they may have during the process.

#### 9.1.3 Special conditions

special conditions to consider to ensure a smooth service.

· The timeframe can be modified, but it needs to be done at least 12 hours before originally determined time.

· If the estimated price after the test differs significantly from the price estimated on the website, the pick-up man needs to clarify the reasons with the user. They should explain that specific criteria were not met as indicated by the seller online and provide the test results as evidence.

· If the mobile phone out of battery, the testing cannot be done. The pick-up man should inform the user to charge the phone. If the schedule is tight for the day, the pick-up man can advise the seller to select a different timeframe. If the schedule allows, the pickup man can wait at the doorstep or proceed to the next appointment and return to test the device later.

A general solution is to clearly inform the seller To ensure clarity for sellers, we will test the in the confirmation email about what needs to be done and what is not necessary to them.

#### 9.1.4 Concept profitability

The doorstep service is not aimed at making a significant profit itself. Instead, its goal is to increase user conversion and retention through the service. Additionally, there are intangible benefits such as trust-building and mobile advertisement on Valyuu's van. Overall, we can test whether the number of sellers who place an order and successfully complete it has increased, as well as whether the number of customers During the doorstep process, there are some visiting the Valyuu platform has increased.

# 9.2 **Project Conclusion**

In this project, our goal is to design a service 1. The identification of three segmented prethat not only meets the basic doorstep service owned product seller's personas, along with the needs but also creates a strong brand impression. evidence and reasons behind their formation. That's why we say "doorstep service is not a new concept, but it is new for Valyuu." The research 10 7 focused on three aspects: Valyuu's brand, doorstep service, and selling pre-owned devices. The research followed a qualitative method, combining desk research and interviews.

To launch a service design, we used the SERVQUAL model to address the 5 gaps in our Charm Merchants designs. We conducted thorough interviews to Connectors gather user viewpoints and turned them into insights and opportunities to minimize gap 1, which is the gap between perceived expectations and customer expectations. The insights were then transformed into opportunities and service 2. A separate coding method for qualitative data system needs by coding the interview data, aiming collected during the interview session. to minimize gap 2. Detailed service scenarios and blueprints helped reduce gap 3, which occurs when translating design concepts into reality. We adjusted the promotion strategy to minimize gap 4, which is related to conscious marketing. The implementation strategy roadmap helps address gap 5, which involves the mismatch between All participant's perception and expectations.

This thesis's biggest contributions in academia 3. A service solution that meets the basic and business are: requirements of doorstep service and aligns with Valyuu's specific brand positioning.







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## **Master Thesis**

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