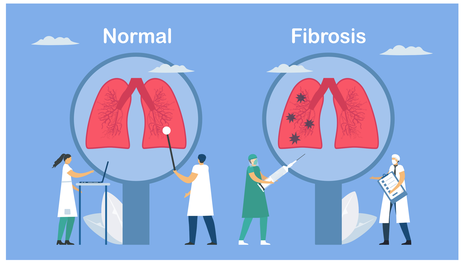
Vomo

An application empowering self-management of Pulmonary Fibrosis

Context

Pulmonary Fibrosis (PF) is a rare and incurable interstitial lung disease, which causes lung scarring, leading to an irreversible decline in patients' lung function and breathing difficulties. In Europe, Pulmonary fibrosis (PF) affects over 400,000 people, and it claims the lives of about 100,000 people each year (EU-IPFF, 2023). In light of the prevailing medical personnel deficit and the stress on healthcare systems, a collaborative synergy between healthcare practitioners and patients becomes indispensable to facilitate the transition of healthcare services from hospital settings to domiciliary environments and to tailor individualized home care.



5 Primary Information needs of PF patients

Understanding and management of medication

Understanding and management of oxygen therapy

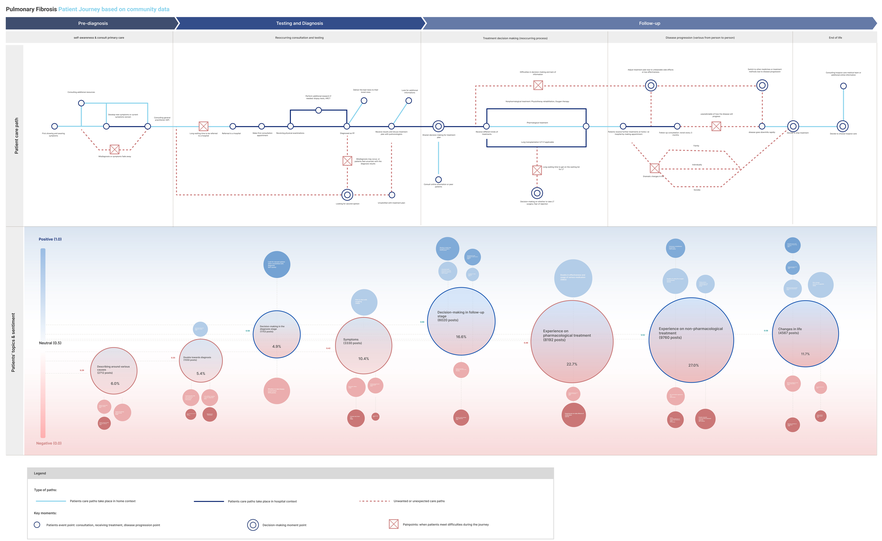
Understanding Treatment and medication options

Lifestyle adjusting to adapt to changes in life

Symptom monitoring and management

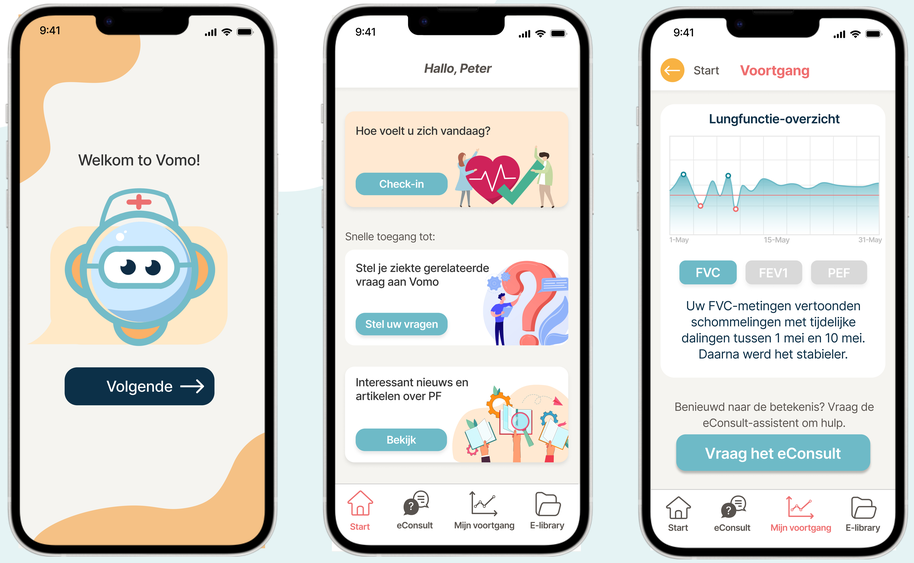
Method

Patient Community Journey Mapping



This project adopts the Patient Community Journey Mapping, which introduces a novel approach involving worldwide, community-level qualitative patient data. This approach also allows designers to create evident-based patient journeys, which interpret both qualitative and quantitative insights through computational analysis (machine learning). As a result, the problem areas where patients have the most struggle are defined and design concepts are generated based on that.

Prototype



Ruixuan Zhang

Vomo:An application empowering self-management of Pulmonary Fibrosis

24th of August, 2023

Design for Interaction - Medisign

Committee Prof. dr. ir. R.H.M. Goossens

Prof. dr. Rietjens, J.A.C.

Dr. J.Jung

Company Erasmus MC

TU Delft

Faculty of Industrial Design Engineering

Delft University of Technology