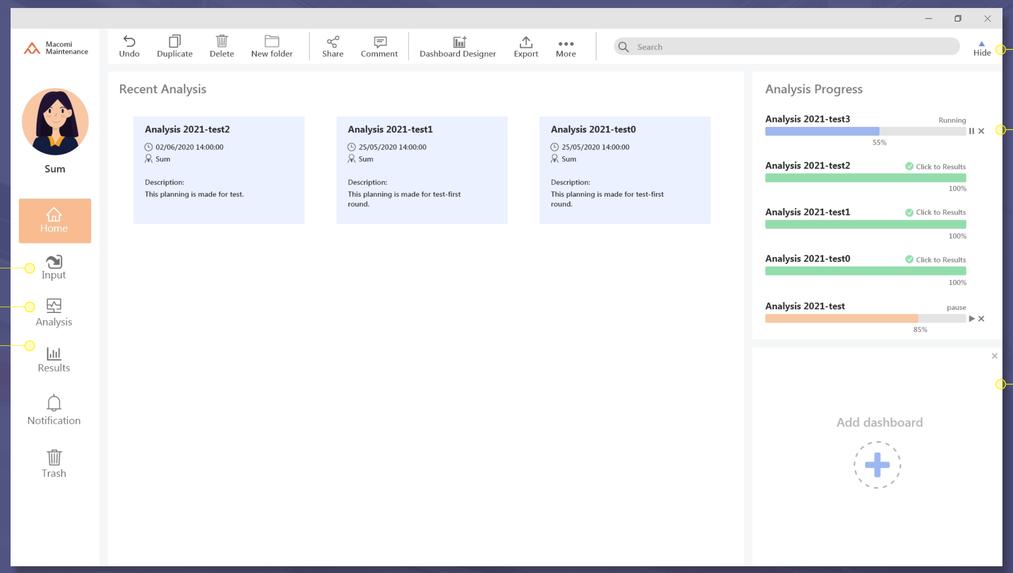
HOME PAGE



Navigation bar

Show clear structure of the tool and the users can easily switch between various pages to conduct different operations

Toolbar

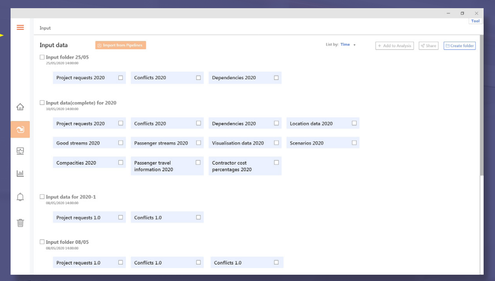
Users can hide the toolbar to keep a clean and 'minimalist' work space and use context menu(right click) to activate functions

Progress and shortcuts

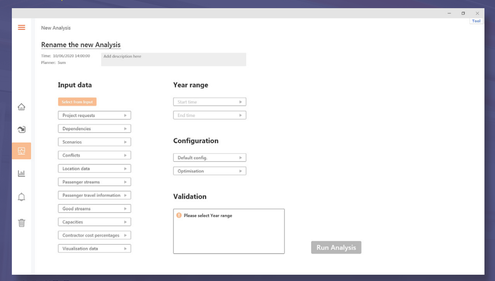
Support quick access to the analysis planning and check the progress of the analysis

Customisable dashboard

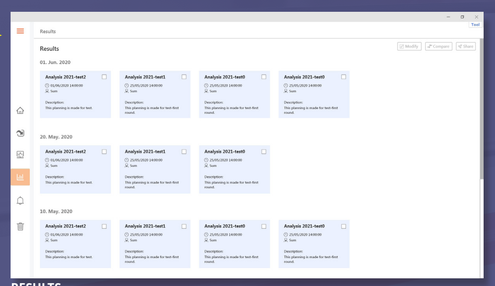
Different users might have different working habits and care about different information due to different responsibility. The Home page supports customising dashboard and the users can put the most relevant information for them on the homepage.



INPUT



ANALYSIS



RESULTS

This thesis project investigated how user-centred design(UCD) contributes to the railway maintenance planning optimisation. A new UX concept and digital prototype were designed to provide intuitive interaction and clear structure to support the planners confidently and independently optimise railway maintenance planning on a digital platform.

The final design Macomi Maintenance was generated based on the user-centric design(UCD)research and insights from concept iteration tests.

It consists of four main functional pages: Homepage, Input, Analysis and Result, which support the main scenarios for the railway maintenance planning optimisation.

Macomi Maintenance

A user-centric data-analytic platform for railway maintenance planning optimisation

Sum Yuet Leung
Macomi Maintenance: A user-centric data-analytic platform for railway maintenance planning optimisation
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