

Enhancing information processing in project management systems through visualized and personalized dashboard concepts.

1 Background

This project focuses on improving the design of the starting-page dashboard in the project management system C7 Projects. Users in C7 Projects often have diverse roles and responsibilities, which makes it challenging to quickly identify and act on the information that is most relevant or urgent. A well-designed dashboard should guide users toward timely and meaningful insights while reducing cognitive load. The project therefore explores how visualization techniques can clarify complex project data and support more efficient decision-making. It also examines how customization options can help users tailor the dashboard to their specific needs and workflows. Conducted within the field of design, the thesis aims to develop a concept that enhances clarity, usability, and user experience in C7 Projects.

2 About Triona

Triona is a reliable product and consultancy company that improves our customers' daily operations through data-driven insights and efficient resource flows. Our products and expert services serve organizations within the forestry, infrastructure, and transport sectors in the Nordics.

For over 30 years, we have combined deep industry knowledge and expertise in software development to deliver digital solutions that make a real difference for our customers.

3 About C7 Projects

C7 Projects is a project management system that is used in the construction and infrastructure sectors. The system consolidates all project information into a single tool, reducing the need for multiple separate systems and making it easier for users to gain an overview and access relevant data. C7 can be adapted to an organization's processes and integrated with other systems to support information flows and avoid duplicate data entry. It is designed to support daily work by making essential project information easily accessible.

4 General

This thesis is aimed at one or two students. At least 50% of the work should be carried out on Triona's premises.

5 Objective

Suggested research questions:

- How do different user roles and responsibilities influence their information needs, and how can a dashboard adapt to these varying needs through customization?
- What types of visualizations best support users in interpreting complex project data quickly and accurately?
- How can personalization and role-specific views enhance the usability and effectiveness of a project management dashboard?

6 Scope of Work

We recommend that the project follow an established design cycle (such as the Double Diamond model or another suitable methodology for an insights-driven design process). The work will include conducting interviews for data collection, carrying out a literature review, and performing user testing to evaluate concepts. Based on the insights gathered throughout the design process, a final concept will be developed and presented.

The scope of work may be adjusted to meet the university's requirements.

7 Expected Result

A design concept (conceptual prototype) illustrating how the starting page could be structured, along with insights into the key considerations for developing an informative dashboard landing page.

8 Budget

Triona dedicates a supervisor for supervision/discussion regarding requirements and functionality, as well as ensures access to work tools (computer, etc.) and a workplace