Midterm Handout

Statistics

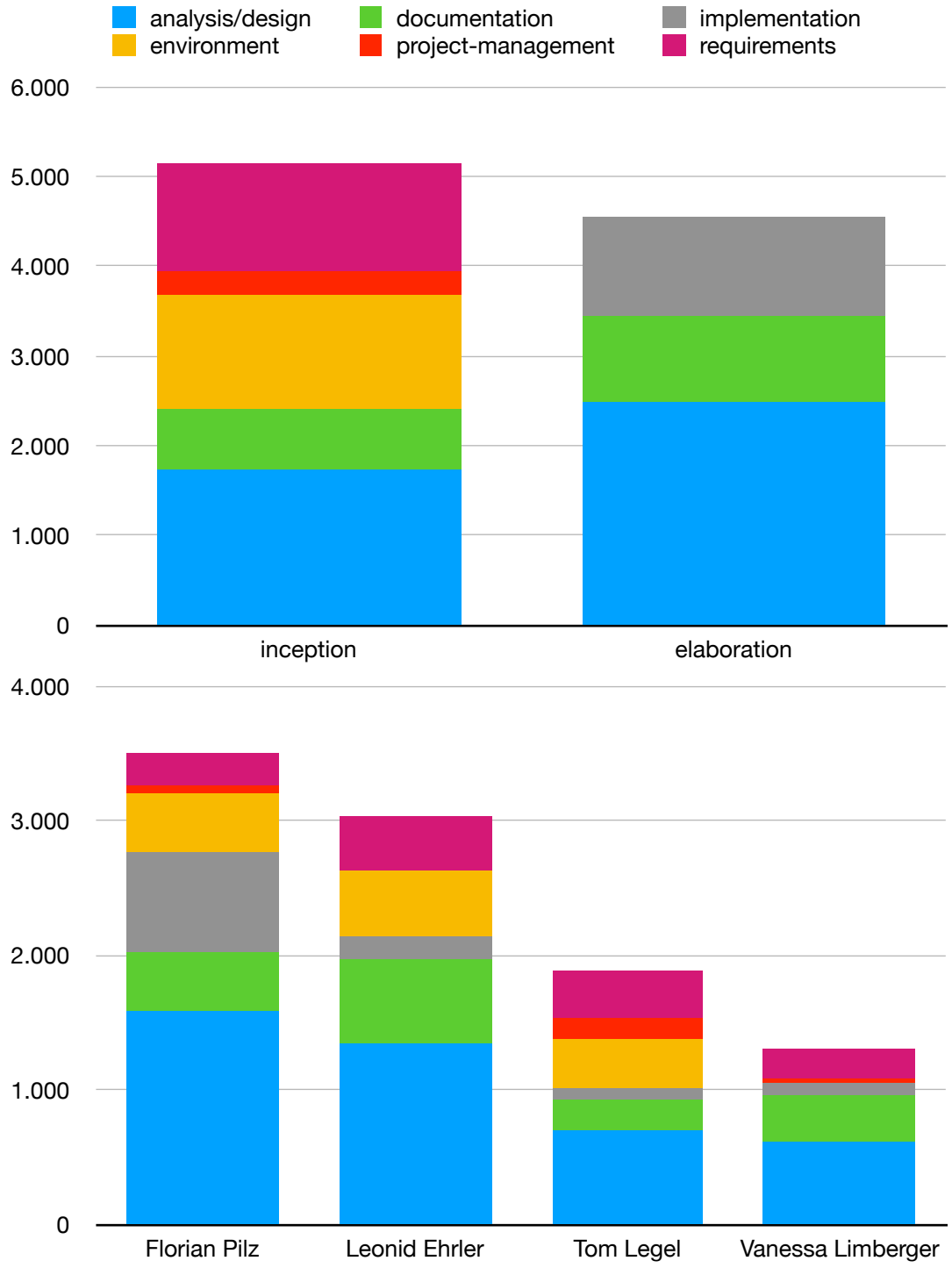


Diagram 1: minutes spent on workflow and phase
Diagram 2: minutes spent on workflow per person

Use Case Diagram

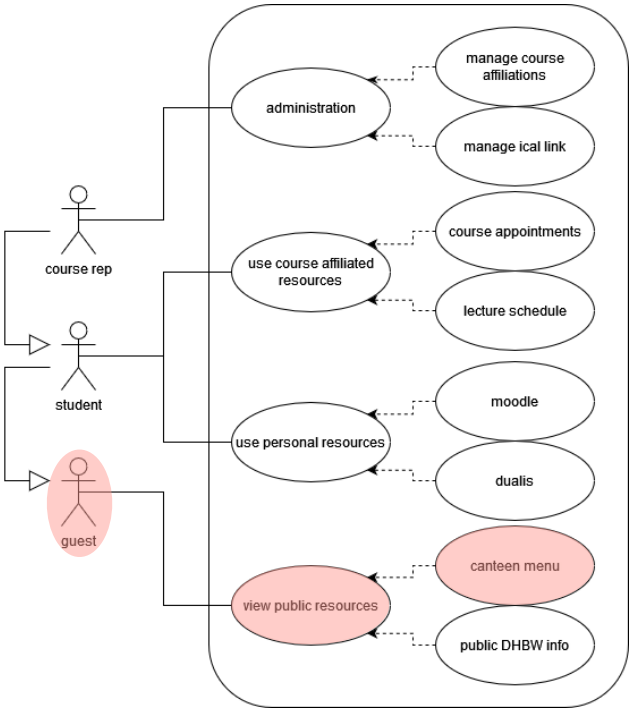
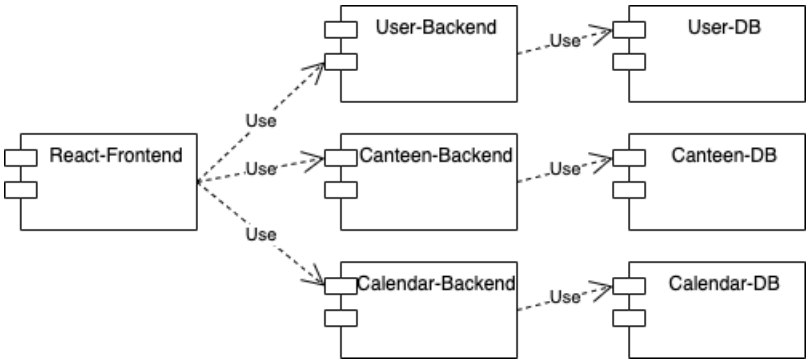


Diagram: overall use case diagram
The highlighting shows the implementation that is accessible in our demo so far. It is one of the main features.

The dashboard (home) and sidebar (offcanvas) are not part of this UCD but have already been implemented.

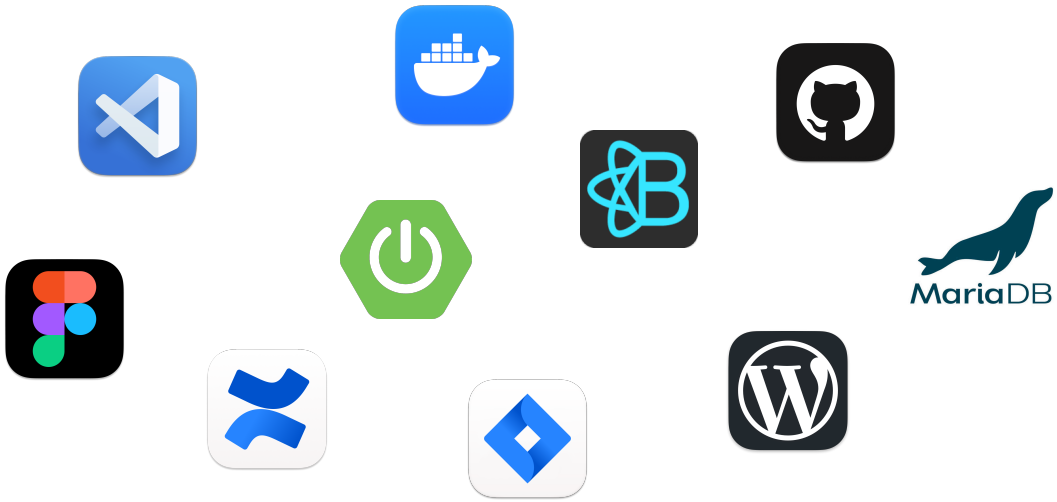
Architecture Style/Decisions



The DHBW Community Dashboard will be a single page application, which after first load, and during a realistic caching time, is stored in the user's browser cache. Therefore, we decided on a Progressive Web App with a React frontend. This will allow the user to access the Dashboard on any device even when being offline or when the server is temporarily down.

For the backend, we planned to split it up into micro services each with a database instead of one monolith backend. As a result, if one part of the backend crashes, this will only affect one frontend component and will not lead to a crash of the whole system.

Tools/Platforms/Techniques



Visual Studio Code: IDE
React-Bootstrap: single page frontend
Java Spring Boot: REST backend
MariaDB: database management system
Docker: containerization of backend micro services
GitHub: CI/CD and documentation
Confluence: team internal documentation and protocols
Jira: sprint planning and ticket system for scrum
Wordpress: weekly updates and public discussion
Figma: wireframing and icon design