Alabass Alkhrsany, Blendi Grajqevci, Teemu Laasio, Aleksi Putkonen

Sprint 2 Review Report

Scrum master: **Blendi Grajqevci**

Sprint Goal

The goal of this sprint is to get the intial flashcard functionality and user management up and running from backend to frontend.

Completed Tasks

The following Sprint 2 tasks were completed:

- **Frontend foundation** with routing and user management. User authentication with React context and autologin.
- **Unit testing** in front- and backend *(JUnit, Vitest)*.
- **Code Coverage** in front- and backend *(JaCoCo, Istanbul)*.
- **The database** is fully implemented and documented.
- **Backend foundation** and user management **API routes** are defined. Spring middleware for authentication and security

Demo Summary

FILL OUT LATER

What Went Well

The scheduling for Sprint 2 went well, we managed to develop a minimal working product and minimum pages. We got the backend working and connected it with the frontend. We have working user management (login / registration) and working flashcard gameplay (sample data). We have made a good foundation to continue development and unit testing.

What Could Be Improved

Communication needs to be improved even more. We need to plan and take discord meetings every week or some days, where all team members can have the chance to ask, confess and plan further. This could help us avoid errors and conflicts, which improves the quality of our end-product.

Next Sprint Focus

The next sprint will focus on finalizing the backend with the missing endpoints and tests, continuing the frontend development, as well as initializing the CI/CD tools (Jenkins). It is intended that the product itself will be functional at the end of the next sprint.

Work Distribution

The following table defines the tasks, and time spent executing them for each team member.

Member	Tasks	Time Spent (h)
Aleksi Putkonen	Database design, JPA entities, Spring middleware, Auth endpoints & security, Other entity endpoints, Tests for implemented services and controllers, Docker setup, JaCoCo setup, sprint reports	40
Blendi Grajqevci	Frontend foundation, Vitest/Istanbul, quiz functionality, search and flashcard creation.	31
Teemu Laasio	Database design, sprint reports, writing, documentation.	12
Alabass Alkhrsany	Frontend login/register and profile page (user management).	20

Regarding Frontend Testing

We decided that only the logic will be tested in the frontend like custom React hooks and context, which will have a significant impact on the logic of the application. UI-component testing will be excluded as it is not deemed necessary for the core logic and functionality. A walkthrough of the most important user stories will be implemented using playwright in the upcoming sprints. I