Digital Library – Week 2 Report

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This past week, we focused on building the foundational components of the user interface for our project. We created a home page with a search bar that will allow users to search for books and a recommendation button that will allow users to get personalized recommendations based on their reading history. We also created a books page where users will be able to see their reading history. Finally, we created the about page where users can learn more about the digital library project. As of right now these pages don't do much, but once additional features of the digital library are implemented, these pages will become more interactive and useful to the user.

Some problems that we faced this week were running the local development server and writing in JavaScript. When trying to run the local server from the terminal we got a few errors. We found out that npm wasn't installed in the frontend folder, where the package.json file was located. This resulted in the error message: *Missing script: "dev"*. In order to fix this, we installed npm into the frontend folder and ran the command: *npm run dev* in the terminal, this time being a success. The other problem we had this week was learning JavaScript. Each team member has little to no knowledge of JavaScript, so we had to do some research and teach ourselves how to utilize this language. Although these challenges required some extra time and effort, they were relatively minor and did not significantly delay our progress. As we continue working on this project, our familiarity with JavaScript is expected to improve, which should allow us to work more efficiently and confidently on future components.

Although we faced a couple problems, we are still on track with our Gantt chart and are ready to begin working on the API. We initially allocated the time period 1/28/26 – 2/6/26 for the

completion of the UI basics. Since we finished the basics of the UI a little earlier than we thought we are able to start working on the API a couple days before our projected goal. We plan to start working on the API within the next couple days and plan on having it completed by 2/23/26 in order to stay on track with the Gantt chart.

The plan for this week and next week is to focus on getting started and finished with the API. This will include determining how data will be stored and retrieved and connecting the API to the existing user interface. We will begin testing the API to ensure that requests and responses are functioning correctly and that the data being returned is accurate and consistent. We plan to integrate the API with the frontend so that features such as searching for books and displaying a user's library become fully functional.

Member contribution

Camron Mellott:

- Week 2 report
- UI (About page)

Josh Watson

- Week 2 slides
- Page Navigation
- UI (Books page)

Luke Joseph

- UI (Home page)