

Reflection A5: INF133

Enter names of all group members as they appear on Canvas/UCI roster

First name	Last name
Jacky	Cheng
Mengchao	Ren

Is there anything special we need to know in order to run your code?

First, run “npm install” to install all required dependencies. Also, create a .env.local file in the root directory with the publishable and private API keys generated in the Clerk dashboard, accessible from <https://clerk.com/>, to enable ZotMate’s sign-in and sign-up functionality via Clerk API. To run the application, run “npm run dev” and navigate to the local URL, which is usually http://localhost:3000/.

Reflect on any challenges your group faced and how they were overcome for your final project

At first the application on Mengchao’s side did not launch because it was missing a publishable key even though he included it in the .env.local environment file. After careful inspection, we found out that it was because he forgot to include the “.” before the “env.local” for the file name, so the file and the API key were both not recognized by the compiler.

Another challenge we had were merge conflicts that occurred when we merged each new branch into the main branch. We never encountered this situation beforehand, so it was initially time-consuming for us to figure out what had happened after the merge, and determine the course of action to not only resolve the merge

conflicts, but also retain the functionality of all features. After we inspected the conflicted lines of code in the web editor and the local workable code, we managed to resolve the conflicts that occurred after each merge attempt.

Reflect on design decisions, which frameworks were chosen and why

Frameworks and Their Justification

1. Next.js:

- Chosen for its efficient page routing and out-of-the-box performance optimizations.
- Its ability to handle server-side rendering made it ideal for creating a responsive web app within the time constraints of the assignment.

2. React.js:

- Fast rendering of the application's front-end interface.
- Familiarity in regards to web development.
- Usage goes hand-in-hand with Next.js.

3. Material-UI (MUI):

- Provided a rich set of pre-designed components that saved development time while maintaining a consistent, clean design for each page.
- Its flexibility in theming allowed us to match the application's branding and color scheme.

4. Clerk:

- Enabled easy integration of authentication features such as sign-up and sign-in.
- Simplified user session management without needing to build user authentication from scratch.

Reflect on future improvements you would consider for your project/collaboration

A future improvement for consideration could be an update to the interface of the to-do list page that utilizes the

Google Calendar API to show each task situated in a specific date and time on a rendered calendar. Additionally,

we may also implement a feature that allows a user to set an audiovisual alert to each task that notifies them when

a user-defined deadline is about to be reached.
