

Project Documentation

Task Overview: The goal of this project was to implement a Kanban system that allows users to register, login, and post cards to a Kanban board. The application is designed to be accessible on both mobile devices and desktop browsers.

Technological Choices:

Frontend:

- React
- react-router
- Materialize UI
- dnd-kit (for drag-and-drop functionality)

Backend:

- Node.js with Express.js (lightweight and efficient for building APIs)
- MongoDB (Specify the version and why it was chosen)
- JWT Authentication (for user authentication)
- Bcrypt (for password hashing)
- Mongoose (for database interaction)
- Dotsenv (for managing environment variables)

Installation Guide:

1. Ensure Node.js, npm, and MongoDB are installed.
2. Run the project with: `npm run dev` , this runs frontend and backend simultaneously

User Manual:

1. Open the application in a web browser.
2. Register an account.
3. Log in with your credentials.
4. Add a column to the board.
5. Add cards to a column.
6. Delete columns using the button in the top right corner.
7. Delete cards using the button below each card.
8. Log out using the navigation bar.

Features and Functionality:

- Users can add, remove, and rename columns within their board.
- Users can add, move, and remove cards within their board.
- Cards can be moved within and between columns using drag-and-drop.
- Cards can be reordered within a column using drag-and-drop.
- Users can log in, register, and log out.
- React is used for the frontend framework.

Implementation Notes: The mandatory requirements were completed, along with the drag-and-drop functionality and frontend framework integration, which should total 29 points. However, some issues were encountered regarding how data is saved. The aim is to achieve at least 27 points.

Declaration of AI Usage: AI was used to assist in structuring the documentation and improving clarity. The core implementation and decision-making were done independently by me.