Project Design Phase

Problem – Solution Fit Template

Project setup and configuration.

✓ **Folder setup:**

Now, firstly create the folders for frontend and backend to write the respective code and install the essential libraries.

- Client folders.
- Server folders

✓ **Installation of required tools:**

    1. Open the frontend folder to install necessary tools for frontend, we use:

- **React:**

  A JavaScript library for building user interfaces, especially single-page applications.

- **Bootstrap:**

  A CSS framework for responsive design and pre-styled UI components.

- **Material UI:**

  A React component library that implements Google's Material Design.

- **Axios:**

  A promise-based HTTP client for making API requests.

- **React-bootstrap:**

  A React-specific version of Bootstrap components

2. Open the backend folder to install tools

for backend, we use:

- **Express JS:**

  JavaScript runtime that lets you run JS on the server.

- **Node JS:**

  A lightweight web framework built on top of Node.js.

- **MongoDB:**

  A NoSQL database that stores data in flexible, JSON-like documents

- **Cors:**

  A middleware that enables or restricts resources on a web page to be requested from another domain.

- **Bcrypt:**

  A library for hashing passwords.

- **Mongoose:**

  An ODM (Object Data Modeling) library for MongoDB and Node.js.