CEN 4090L: Software Engineering Lab - Increment 1 Submission

Project Title: MERN Task Management Web Application

Team Members:

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- Sayed Haidar Alhussaini
- Bilal Taleb

Links to each document provided:

A. Contribution to and Quality of Progress Report (20 points)

For Increment 1, we have fleshed out the core concept of our project. We have:

- Finalized the primary features of the task management system, including task creation, editing, deletion, and role-based permissions.
- Conducted research on the technologies we will be using, including MongoDB, Express, React, and Node.js (MERN stack).
- Set up the GitHub repository for version control and planned the project structure.
- Created a list of initial requirements and tracked them in our issue tracker.
- Discussed and delegated responsibilities within the team.

https://docs.google.com/document/d/1V_e9QIBVyf60c_MOI30SCm1ca2xBy-9_XWM88jTgZUA/edit?usp=sharing

B. Contribution to and Quality of RD Document (60 points)

Our Requirements Document (RD) outlines the functional and non-functional requirements of our application:

Functional Requirements:

- User registration and login system.
- Task creation, editing, and deletion.
- Calendar integration to track deadlines.
- Role-based permissions for managing users and tasks.

Non-Functional Requirements:

- The application should be accessible across devices (desktop, mobile).
- User data must be securely stored, with encrypted login credentials.
- The system should support up to 1000 users within an organization.

https://docs.google.com/document/d/1W7EGcmfcr4mUhC9S5sxRr6WpECiq3eKAp3X1txYtMB4/edit?usp=sharing

C. Contribution to and Quality of IT Document (40 points)

The IT Document details the architecture and technologies to be used:

- We will implement a web application using the MERN stack (MongoDB, Express, React, Node.js).
- MongoDB Atlas will be used for cloud-based database management, ensuring scalability and accessibility.
- JWT will handle user authentication and session management.
- We plan to use FullCalendar for managing task deadlines and integrating calendar views.
- GitHub will serve as our version control platform, with an issue tracker to manage tasks and progress.

https://docs.google.com/document/d/1lyZfmtnFayxz8annLfpgbrzAD7lkKU_uk_iBb6gAs3g/edit?usp=sharing

D. Contribution to and Quality of the Video (20 points)

In our project video:

- We provide an overview of our project goals and the features we aim to implement.
- Each team member introduces themselves and describes their role in the project.
- We summarize our progress so far, focusing on documentation and planning.

Video Link: https://youtu.be/MEKx2v_JSIA

E. Teammate Evaluation Forms (5 points)

All team members have completed and submitted their teammate evaluation forms, reflecting our collaborative efforts in the project planning phase.

F. Contribution to and Quality of Project Source Code (100 points)

As of this submission, we have not started writing actual code. Our focus has been on planning the project's structure, researching the technologies we will use, and ensuring that our requirements and documentation are clear and thorough. We have populated the issue tracker with tasks for the upcoming development phases. All future code contributions will be linked to corresponding issues in the tracker to ensure proper tracking and accountability.

G. Quality of Source Code (10 points)

Since no code has been written yet, we will ensure that future code adheres to good practices, such as:

- Descriptive variable and function names.
- Proper commenting to explain functionality.
- Clean code organization and structure, maintaining readability and simplicity.