Progress Report
- Increment 3 - Group
#7

1) Team Members

Alek Coupet

- FSU ID: amc21q
- GitHub ID: StellarLaw

Bilal Taleb

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Sayed Haidar Alhussaini

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2) Project Title and Description

MERN Task Management Web Application

This project involves developing a web application for task management using the MERN stack (MongoDB, Express, React, and Node.js). The application enables users to create, edit, and manage tasks while facilitating collaboration within organizations. Key features include calendar integration for task tracking and role-based permissions for enhanced user management.

3) Accomplishments and Overall Project Status During This Increment

- Developed the Task View form, allowing users to create tasks by filling out required information fields.
- Enhanced the task list on the dashboard, improving user-friendliness with added priority-based color coding and due date displays.
- Added sorting functionality, enabling users to sort tasks by priority or due dates with a single button.
- Implemented profile settings functionality, allowing users to change their passwords.
- Built features for managing organizations, teams, and role-based user permissions.
- Developed the invitation feature for inviting team members.
- Implemented task assignment functionality.
- Updated the database structure, adding new data types to accommodate additional features.
- Integrated a calendar feature that displays tasks on their respective due dates.
- Delivered numerous other new functionalities, completing the application for submission.

Current Status:

The project is complete and ready for grading.

4) Challenges, Changes in the Plan, and Issues Encountered

- Learning a new programming language and stack was a constant challenge.
- Encountered issues with the free version of cloud-based MongoDB, requiring a shift to a local database version.
- Identifying and installing appropriate packages was time-consuming, with some installation issues causing delays.
- Optimizing the app size for GitHub and simplifying the setup process required additional effort.
- Debugging interactions between unfamiliar technologies posed significant challenges.

5) Team Member Contributions for This Increment

Alek Coupet:

- Documents: Contributed to IT (Sections 1, 2, 3), RD (Overview), and Progress Report (Sections 1, 2, 6, 7).
- Code: Developed all frontend views, some models, and model controllers.

Bilal Taleb:

- Documents: Contributed to IT (Sections 4, 5), RD (Class Diagram, Operating Environment, Assumptions, and Dependencies), and Progress Report (Sections 4, 6).
- Code: Worked on the backend, implemented functionalities related to tasks, and contributed to some views.

Sayed Haidar Alhussaini:

- Documents: Contributed to IT (Sections 3, 4), RD (Functional and Non-Functional Requirements, Use Case Diagram), and Progress Report (Sections 3, 6).
- Code: Focused on implementing features for profiles, organizations, invitations, and teams. Designed and implemented the calendar feature.

Note:

- All team members contributed equally to the project and participated in creating the video presentation.

6) Plans for the Next Increment

There are no further increments planned, as the application is fully developed and ready to use.

7) Stakeholder Communication

Subject: Progress Update on Task Management Web Application

Dear Mr. Mills,

I'm pleased to share an update on the Task Management Web Application. The application is now fully developed, with all required functionalities implemented and tested. The new features align with the specifications and function as intended.

Attached, you will find the detailed progress report outlining the application's development process and the team's contributions.

The application is ready for deployment and can be launched at your convenience. We greatly appreciate your support throughout this process and are confident that the application will meet your expectations. If there are any additional requirements or adjustments needed, please let us know.

Best regards,
Alek Coupet
Task Management Web Application Team

8) Link to Video
[Insert link here]