Progress Report
- Increment 2 -
Group #7

1) **Team Members**

- Alek Coupet | FSU ID: amc21q | GitHub ID: StellarLaw
- Bilal Taleb | FSU ID: bt23i | GitHub ID: BilalMTaleb
- Sayed Haidar Alhussaini | FSU ID: sha23b | Sayed-Haidar

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 will allow users to create, edit, and manage tasks and collaborate within organizations. It will also feature calendar integration for task tracking and role-based permissions.

3) **Accomplishments and overall project status during this increment**
- We started the implementation of the app with the basics; we created user, task, and organization models
- Set up node modules necessary for the front-end
- We set the front-end with a simple home page
- Created a login/sign-up window to access the app in the home page
- Login/sign-up password encryption and authentication
- Created a simple user dashboard, showing a welcome message, a simple task window
- Created a profile icon on the top bar in the right corner of the dashboard page, allowing the user to check their profile, and logout (not functional yet, visual only)
- The task window has a button to create a new task (not functional yet, visual only), and shows an example of some tasks assigned to the user
- Set up a local database and linked it to the back-end
- Database keeps track of registered users through sign-up
- Login checks the database for user's input of email address and password, and grants access if they match in the database

4) **Challenges, changes in the plan and scope of the project and things that went wrong during this increment**
- The learning process of a new language was always a challenge.
- Identifying node modules to install, along some issues installing them
- Setting the database took some time. For now, we have a local database, but we plan to use MongoDB Atlas, a cloud-based database
- Setting up a local database for MAC OS was a bit problematic, due to required packages to run the database
- Learning about authentications and how to set up
- It took time to learn the languages, more than we expected
- No changes in the plan

5) **Team Member Contribution for this increment**
   - Alek Coupet: Contributed to the IT (section 1, 2, and 3) and RD document (Overview), and progress report (sections 1, 2, 6, and 7). Source code: Worked on the sign-up, encryption, setting up the database
   - Bilal Taleb: Contributed to IT document (sections 4 and 5), the RD document (Class diagram, operating environment, assumptions and dependcies) and progress report (sections 4 and 6). Source code: Worked on the back-end; models, routes, and controllers
   - Sayed Haidar Alhussaini: Contributed to IT document (section 3 and 4), the RD document (Functional requirements, non-functional requirements, use case diagram) and progress report (sections 3 and 6). Source code: Worked on the homepage, dashboard, and database configuration
   - All contributed to creating the video presentation
6) **Plans for the next increment**
   - Finish up the user dashboard page, including task creation, user profile, and view team
   - Allow users to create and join organizations
   - Link tasks and organization information to the database
   - Integrate a calendar to show tasks due date
   - Test the whole app including all the features functionalities
7) **Stakeholder Communication**

Subject: Progress Update on Task Management Web Application

Dear Mr. Mills,

I'm writing to provide a brief update on the Task Management Web Application. We have learned a lot about the MERN stack implementation process in deep and started the implementation of the basics and a bit more. About 55% of the features are implemented.

All progress regarding the app can be found in our progress report file attached, along with contributions of team members.

In the next phase, we will focus on implementing the rest of the app and. We will be done with it surely before the deadline, and it will be ready to launch by the deadline.

We appreciate your continued support and will keep you updated as we move forward.

Best regards,
Alek Coupet
Task Management Web Application Team

8) **Link to video**

https://youtu.be/OJmYg9KmkCQ