Task Managers

Group 013-3
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CSCI 3308
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1. Description

Our project is a user-friendly task management system designed to help users organize and prioritize their work more effectively. Users can create tasks with assigned priorities and due dates, enabling the system to automatically display the most urgent and important tasks first. Users can also give repetitive tasks the “daily” attribute, causing it to appear every day. A calendar view is also available, allowing users to visualize their tasks based on due dates for improved planning and time management.

One of the standout features of our task manager is its built-in reward system. Users earn points for completing tasks and maintaining daily login streaks, promoting consistent organizational habits. These points contribute to a leaderboard, fostering a sense of accomplishment and friendly competition among users.

Our system places a strong emphasis on a clean, intuitive interface that makes staying organized easy and motivating. By combining task tracking with a gamified reward structure, we aim to make productivity more engaging and to encourage users to build lasting habits.

2. Project Tracker

Github project board:
https://github.com/users/bruce455/projects/1/views/1

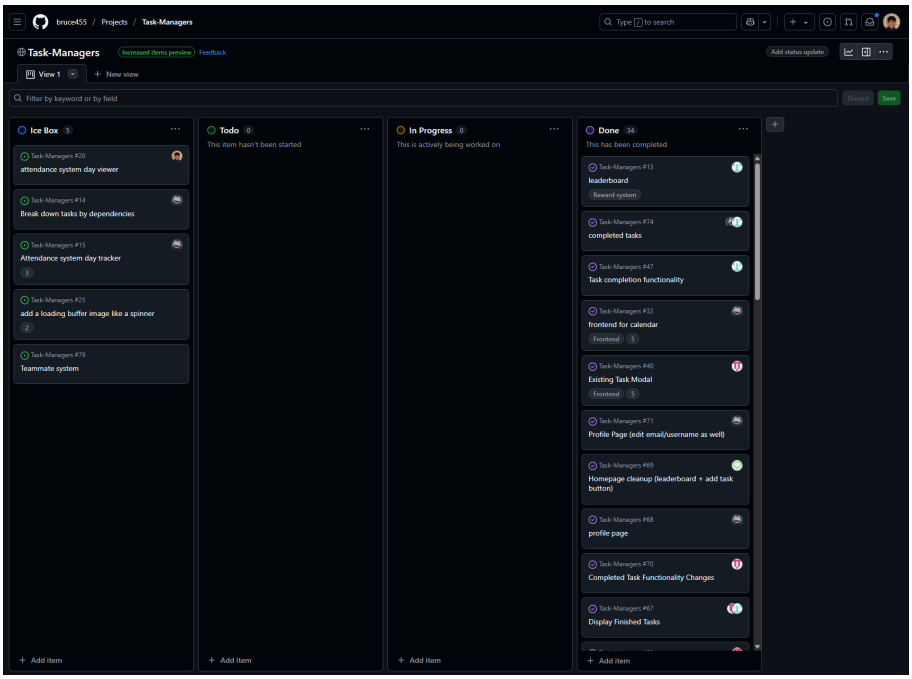


Figure 1: Project Tracker

3. Demo Video

task-managers-nwd9.onrender.com_login - Google Chrome 2025-04-28 18-35-47.mp4

4. VCS

Repository:
https://github.com/bruce455/Task-Managers

5. Contributions

A brief (not more than 100 words) from each team member about their contributions.

- This should include the technologies worked on
- Features that have contributed to

Bruce:
Primarily working on the backend of our group project, I worked on the creation of our relational database used to store all users and task information. While contributing to the calendar, I made sure information needed from the database was correctly getting fetched from our database. One feature I worked on was the delete button for our edit task modal used to remove a task from the calendar and the database. The next feature I worked on was the creation of the leaderboard used to rank individuals based on their reward points count.

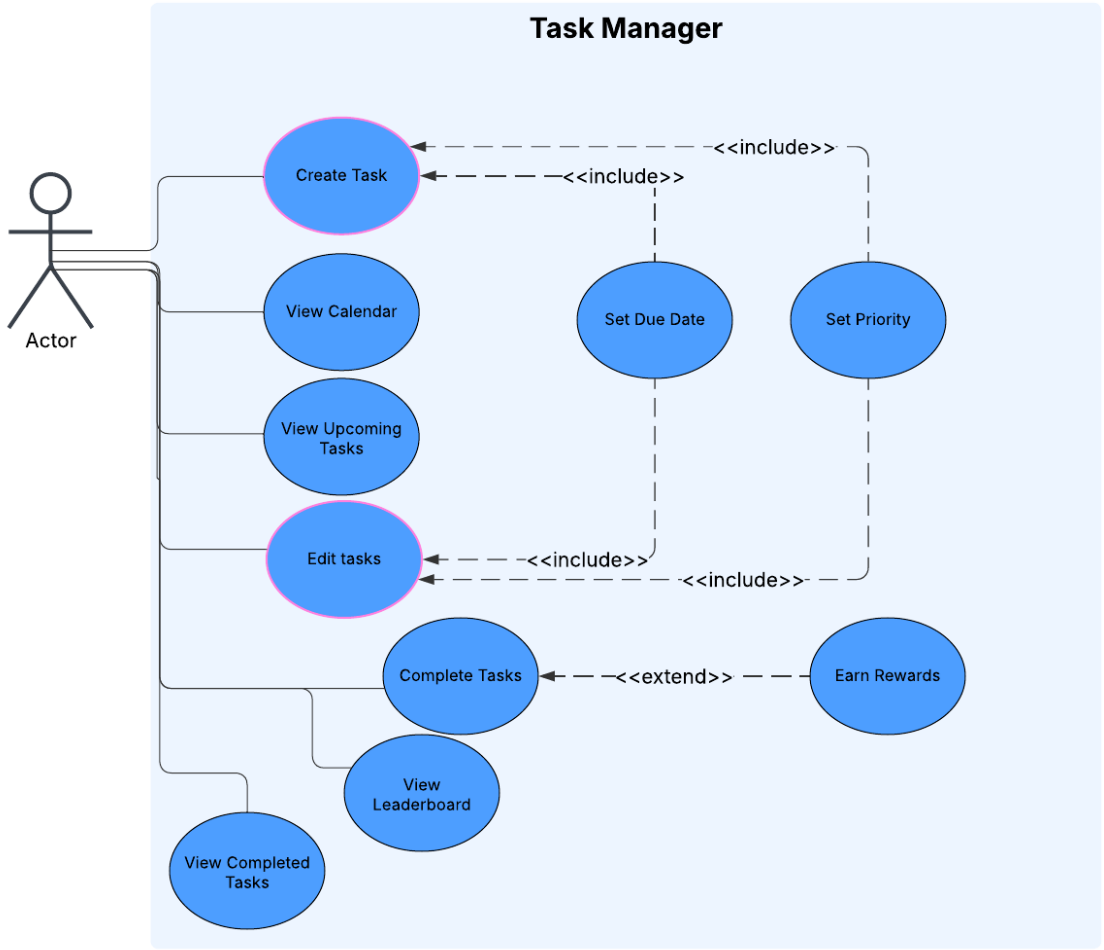
Jack:
I initially worked on setting up the partial structure of our pages, including header, footer, main, and basic login/register pages. I then implemented the new task and edit task modals with their frontend interaction and functional backend routes. I also worked on the application's complete task functionality with the database and the different cases involved. I worked on the management of tasks to differentiate daily from ordinary ones. Additionally, I spent time performing various bug fixes from code integration and solved general code conformity issues.

Shona:
My main contribution to the project was developing the front end of the home page. For 'Dailys' and 'Upcoming Tasks', I wrote the queries in order to fetch the correct tasks associated with the user. Writing the queries in the index.js file, I made sure that I was retrieving any task due later than the current date, inclusively. Most of my time went into making the UI easy to navigate for any user. I created the layout for which all the tasks would be displayed, and I included Bootstrap icons in order to create a more aesthetic look. I used JavaScript, html, and css styles to tie everything together.

Elijah:
For this project I primarily focused on setting up the frontend for our project. I created the frontend for the login and registration pages, along with the calendar page. I created a custom calendar layout and added javascript functionality for the calendar page including clickability for events. I worked on the profile page where I created the frontend, and the functionality to view and edit user data. Throughout the project, I spent time fixing various bugs and reformatting our frontend whenever new features were added.

Sam:
I worked primarily around the registration and login system, including querying the database to add the information of newly registered users and querying the database to retrieve the information of logged in users. I worked on session tracking, so that the data displayed on the website was data attributed to the user. I also added a notification system for the website that activates on log in, displaying user data and remaining tasks for the day. Finally, I implemented a tracker that displays how many tasks have been completed.

6. Use Case Diagram



7. Wireframes

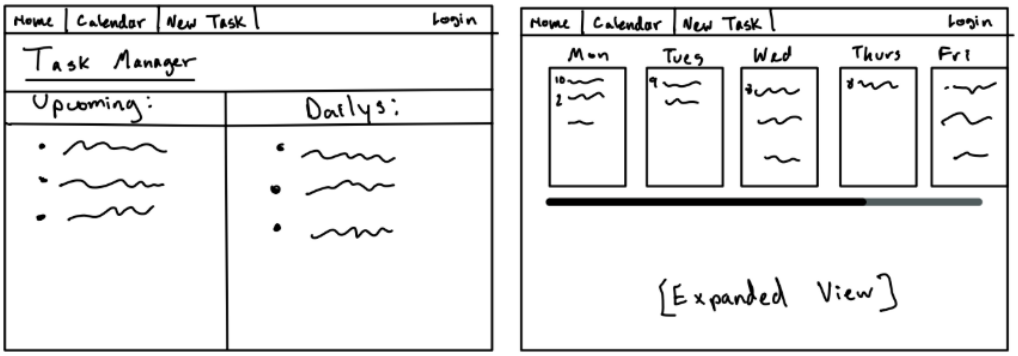


Figure 2, 3: Home and Calendar Pages

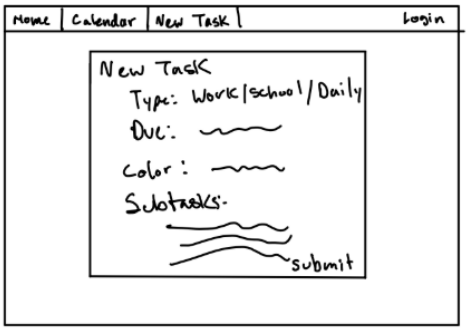


Figure 4: New Task Modal

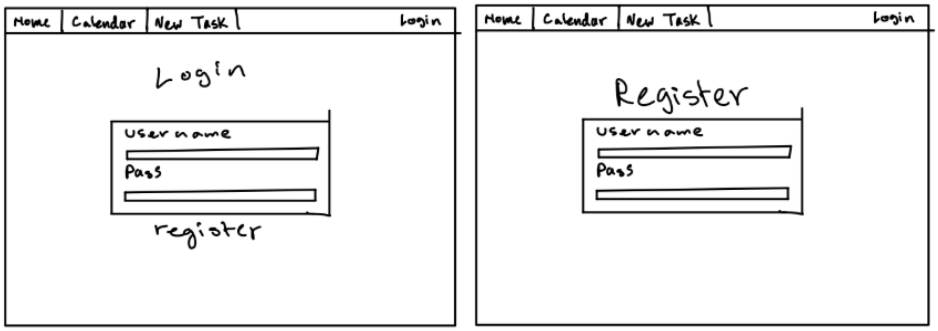


Figure 5, 6: Login and Register Pages

8. Test Results

9. Deployment

https://task-managers-nwd9.onrender.com/login