

Ben Molloy

Team Leader Information

- Ben Molloy
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- GitHub: [My GitHub](https://github.com/btmolloy/ASE-285-Team-Project/) ➔ (<https://github.com/btmolloy/ASE-285-Team-Project/>)

Project Plan

Summary of the Project

Our project is like a digital assistant that helps you remember and organize all the tasks you need to do, from grocery shopping to important work deadlines. Imagine having a smart notebook that never lets you forget anything, always reminds you at the right time, and is super easy to use—you can access it from your computer or phone, anytime, anywhere. This isn't just any to-do list; it's your personalized planner that understands your schedule and helps you manage your day, week, or even month with just a few clicks. Whether you're planning a family event or juggling multiple work projects, our application makes sure you stay on top of everything without feeling overwhelmed.

Goals

Our team aims to create this web-based planner that simplifies task management for everyone. We're focusing on making it user-friendly, so you don't need to be tech-savvy to use it. Our goal is to provide a solution that helps people better organize their lives, not worrying about forgetting tasks or managing a hectic schedule.

Why?

Achieving this goal is important because, in today's fast-paced world, everyone is looking for ways to be more productive and reduce stress. People often juggle multiple responsibilities and deadlines, leading to forgotten tasks and increased anxiety. By building a tool that effortlessly helps manage these tasks, we're not just offering a product; we're offering peace of mind and the chance to reclaim your time. This is also important because it is a testament of our teams skills in designing complex software.

Features

Our web-based solution integrates several key features, thoughtfully designed and implemented by our team, to provide a seamless and intuitive user experience. Here's how each feature contributes to the overall functionality and value of our application:

- **File Upload (Quay Robinson):** Allows users to attach files directly to their tasks. This feature is crucial for users who need to link documents, images, or any relevant files to specific tasks, enhancing the planner's utility by keeping all necessary resources in one accessible location.
- **Tag Query/Search (Quay Robinson):** This feature enables users to categorize their tasks using tags and then search or filter tasks based on these tags. It simplifies task management, especially for users with diverse responsibilities, by allowing them to organize tasks into categories like 'work', 'personal', or project-specific tags.
- **Entry Subtasks (Bryce Bien):** By allowing users to break down tasks into smaller, manageable subtasks, this feature aids in detailed project planning and progress tracking. It's particularly valuable for complex tasks or projects, helping users stay organized and focused on step-by-step completion.
- **Password Encryption and User Data Storage (Bryce Bien):** Ensures that users' data is secure and that they can manage their account settings safely. This feature underpins the trust in our application by safeguarding user information and providing a secure environment for personal and professional planning.
- **Login Page (Brooks Arthur):** Provides secure and user-friendly access to the application, ensuring that user login credentials are properly authenticated. This feature is essential for protecting user accounts and personal data, reinforcing the security of the entire system.
- **Session Controls (Brooks Arthur):** Maintains the security and integrity of user sessions once logged in. It includes mechanisms to automatically log out users after periods of inactivity, and ensures that user sessions are securely managed throughout their interaction with the application. This feature is crucial for preventing unauthorized access and safeguarding user data.
- **Recurring Entries (Cody King):** For tasks that occur on a regular basis, this feature eliminates the need to manually enter repetitive tasks. Whether it's daily, weekly, monthly, or annually, users can set tasks to recur according to their specific needs, ensuring routines and obligations are never overlooked.
- **Search By Date (Cody King):** Enables users to view tasks by specific dates or date ranges, making it easier to focus on immediate priorities and plan for upcoming obligations. This feature enhances the planner's usability by allowing users to navigate their schedules more effectively.

Combining Value

Together, these features solve the common problem of managing a multitude of tasks across various aspects of life. Our application stands out by not only offering a centralized platform for task management but also by providing tools that cater to the nuanced needs of our users. This integrated approach showcases our team's ability to design and engineer a complex, yet user-friendly software solution.

Project Test Plan

Unit Tests by Team Members:

- **Quay Robinson:** 5 unit tests covering Tag Query/Search and File Upload functionalities.
- **Brooks Arthur:** 7 unit tests focused on Session Controls and User Login Page.
- **Bryce Bien:** 5 unit tests focusing on Entry Subtasks and additional tests pending for Password Management.
- **Cody King:** 10 unit tests for Recurring Tasks and Search By Date functionalities.

Integration, Regression, and Acceptance Tests by Team Leader (Ben Molloy):

Integration Tests:

1. **Login & Task Management:** Ensures users can access and manage tasks post-login without issues.
2. **Task Creation & File Upload:** Checks if files attached during task creation are properly linked and accessible.
3. **Tagging & Search Functionality:** Verifies that tasks tagged upon creation are accurately retrieved via search.
4. **Subtask Integration:** Confirms that subtasks are correctly nested within main tasks and updated in real-time.
5. **Recurring Tasks & Notifications:** Ensures recurring tasks trigger notifications as expected.
6. **Date Search & Task Display:** Validates that tasks are correctly displayed when searched by specific dates.
7. **Password Change & Security Checks:** Tests if password updates are securely processed and effective immediately.
8. **Session Control & Timeout:** Assesses the application's handling of user sessions for security and convenience.

Regression Tests:

1. **Login Process Stability:** Checks if the login process remains reliable after updates.
2. **Task Editing Integrity:** Ensures task edits don't affect unrelated tasks.
3. **File Upload Consistency:** Verifies that file upload functionality is unaffected by recent changes.
4. **Search Feature Robustness:** Confirms search functionality remains accurate after updates.

5. **UI Responsiveness:** Ensures the user interface remains responsive and intuitive.
6. **Data Storage Stability:** Verifies database interactions are stable and data integrity is maintained.
7. **Security Feature Validation:** Confirms security features (e.g., password management) are intact.
8. **Cross-Device Functionality:** Tests application reliability across different devices and browsers.

Acceptance Tests:

1. **Complete Task Lifecycle:** From creation to completion, ensuring all task-related features function as intended.
2. **User Registration & Login:** Verifies the entire process of user account creation, login, and data privacy.
3. **Comprehensive Search Test:** Ensures all search functionalities (tag, date, text) meet user expectations.
4. **Subtask Functionality:** Confirms users can create, manage, and complete subtasks as intended.

Requirements:

- Create Canvas Pages
- Create Prototype
- Complete All Tests
- Organize Final Submission

Milestones and Deadline

- Milestone 1: Initial Prototype and Canvas Page done.
 - Date: 3/24/24
 - Goal: By the above date, the initial prototype to build off of should be complete as well as all the Planning for the project through the canvas pages.
- Milestone 2: Each member completes first feature.
 - Date: 3/31/24
 - Goal: Each member completes one of there two features.
- Deadline 1: Testing, Coding, Documentation of first feature is complete.
 - Date: 4/7/24
- Milestone 3: Each member completes second feature.
 - Date: 4/14/24
 - Goal: Each member completes the coding of the second of there two features.
- Milestone 4: Testing, Coding, Documentation of second feature is complete.

- Date: 4/18/24
- Goal: All tests, code and documentation of the second feature should be done by this point.
- Deadline 2: Entire Project Should be finished.
 - Date: 4/21/24

Risk Analysis

My Personal Risks:

1. ROTC - Every Monday, Wednesday, Friday morning
2. MAT 483 Software Final - TBD
3. Military JFTX - 3/21 to 3/24
4. Military Ball - 4/20
5. Research Project - TBD
6. P3 & 4 Technical Writing - TBD
7. CSC 460 Program - 3/31
8. HW8 Deadline - 5/3

Project Progress

Feature Implementation

Week 1


Summary

This was the first week of the project so I released our first prototype for the team members to use to implement their features into. Additionally, we created plans for the project in the form of creating the canvas pages outlining our plans. We also held our first stakeholders meeting on Wednesday, 3-20-24.

Milestones or risks in this week

One Milestone was reached this week which was to complete the initial Prototype and finish the Canvas Pages. I had a risk this week which was Military JFTX - 3/21 to 3/24. Quay had a risk this week which was Game Tournament - 3/21. Bryce had a risk this week which was being unavailable on 3/24.

Code

The first prototype base code was released this week. The code can be accessed [here](https://github.com/btmolloy/ASE-285-Team-Project/)  (<https://github.com/btmolloy/ASE-285-Team-Project/>).

Week 2

Summary

This week my team worked on their features, specifically the finer details. We did run into a few of the expected risks so not as much was completed this week, however, we are still on schedule.

Milestones or risks in this week

This week we complete a milestone and started on the next one. Specifically, I finished the Canvas page as well as finished the prototype. The milestone that we then started working on was the completion of the first feature for everyone.

Code

[GitHub where new code was made.](https://github.com/btmolloy/ASE-285-Team-Project/)  (<https://github.com/btmolloy/ASE-285-Team-Project/>)

Week 3

Summary

This week our team worked on meeting our third milestone, and began preparing for our first hard deadline. Almost all first features were complete with a 92% success rate. The next step will be documenting them and running our pre-determined tests to ensure our requirements have been met.

Milestones or risks in this week

This week we reached our third milestone to complete the first of two features with a 92% success rate. We have also began preparing for the first hard deadline coming up in 1 week to have all of the testing, documentation and coding done for the first features.

Code

Each team member this week added a substantial amount of code totaling to between 248 and 400 lines of code.

Weekly Meetings

At this weeks meeting, all members participated as we discussed the general progress and direction our project is going. We also discussed if there was any large issues that had raised which there were not.

Week 4

Summary


This week there was no stakeholder meeting and our team experience an influx of risks that occurred. Team members that could, continued to work on the project and finish contents of deadline 1.

Milestones or risks in this week


This week we met our first deadline which was to finish testing, coding and documentation of first feature.

Link to version 2.  <https://github.com/btmolloy/ASE-285-Team-Project/releases/tag/v2.0>


Code

All code that was completed this week can be accessed **here**  <https://github.com/btmolloy/ASE-285-Team-Project/releases/tag/v2.0>.

Tests

All tests that were completed this week can be accessed **here**  <https://github.com/btmolloy/ASE-285-Team-Project/releases/tag/v2.0>.

Document

All documents that were completed this week can be accessed **here**  <https://github.com/btmolloy/ASE-285-Team-Project/releases/tag/v2.0>.

Weekly Meetings

At this weeks meeting, all members participated as we discussed the general progress and direction our project is going. We also discussed if there was any large issues that had raised which there were not.

Retrospective Meetings

All member agreed we are doing great as a team and there are no improvements that need to be made because we have great communication skills.

Week 5

Summary


This was the second last week of our team project and we focused on finishing our last deadline to have the entire project done. Since the last week, we finished our second features code

documentation and tests. Great communication continued this week among team members which allowed us to make plenty of progress.


Milestones or risks in this week

This week we had our regular risks such as the team leader having Drill and ROTC obligations which took much of his time. There were also two milestones which were officially complete which were to complete the second feature and then have all code, tests and documentation complete for it. We then shifted focus towards the final deadline and adding our last touches.


Code

Team members and leader continued to touch up and finalize code which can be accessed [here](https://github.com/btmolloy/ASE-285-Team-Project)  (<https://github.com/btmolloy/ASE-285-Team-Project>).

Tests

Team members and leader continued to touch up and finalize tests which can be accessed [here](https://github.com/btmolloy/ASE-285-Team-Project)  (<https://github.com/btmolloy/ASE-285-Team-Project>).

Document

Team members and leader continued to touch up and finalize documents which can be accessed [here](https://github.com/btmolloy/ASE-285-Team-Project)  (<https://github.com/btmolloy/ASE-285-Team-Project>).

Weekly Meetings

This week we had meetings almost every day to ensure the smooth completion of our team project where we talked about areas that need to be focused on, to other small issues in the project we were facing.

Retrospective Meetings

All member agreed we are doing great as a team and there are no improvements that need to be made because we have great communication skills.

Week 6

Summary

This was the last week of our team project so we focused on finishing any unfinished tasks. Personally as the team leader I focused on organizing the final submission file and ensuring that all team member meet the requirements and tasks that I have set out for them.

