

Process Deliverable IV

By

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Retrospective Summary

What Went Well:

Progress on Foundational Features: Most if not all of the user registration system and basic to-do list functionality have been implemented, which leaves us with a strong foundation for any further development

Team Collaboration: By regularly communicating with our team through daily stand-ups and holding sprint reviews, our team has been able to identify any issues early

Challenges Encountered:

Complicated Integrations: Combining our to-do list with the new Pomodoro timer that we plan on using resulted in unforeseen challenges

Improvements for the next sprint:

Prototyping UI changes: We plan on allocating more time for the rapid prototyping and testing portions in order to ensure more user-friendliness

Testing framework: We also plan on establishing a more sophisticated testing framework so that we can identify any integration issues earlier in the development process

Sprint Planning: Prioritized Tasks for the Next Milestone:

Goal:

Fully integrate the Pomodoro timer with the to-do list to allow task-based time tracking and enhance user productivity.

Tasks:

1. Link To-Do List Tasks to the Pomodoro Timer

- **Objective:** Enable users to associate Pomodoro sessions with specific tasks from the to-do list.
- **Estimated Effort:** 6 hours
- **Dependencies:** Requires a functional to-do list module.

2. **Implement Timer Start, Stop, and Reset Functionality**
 - **Objective:** Allow users to control Pomodoro sessions directly from the task details view.
 - **Estimated Effort:** 8 hours
 - **Dependencies:** Requires a working timer component and integration points with the to-do list.
3. **Design and Test Integration**
 - **Objective:** Ensure seamless synchronization between the to-do list and Pomodoro timer, including visual feedback and error handling.
 - **Estimated Effort:** 5 hours
 - **Dependencies:** Requires complete integration of individual components.
4. **Prototype UI Changes for Pomodoro Timer**
 - **Objective:** Create a visually appealing and intuitive interface for timer interactions.
 - **Estimated Effort:** 4 hours
 - **Dependencies:** Requires basic timer functionality.
5. **Testing and Debugging of Timer Integration**
 - **Objective:** Perform rigorous testing to validate integration and fix identified issues.
 - **Estimated Effort:** 6 hours
 - **Dependencies:** Requires a near-final integrated build.

Contingency Plan:

If delays occur in the Pomodoro timer integration:

- Prioritize UI improvements for existing features.
- Focus on refining the testing framework and addressing minor bugs in the to-do list module.

Black Box Test Plan

Test ID	Description	Expected Results	Actual Results
Registration Form Validation (Ethan Surber) Functional	Preconditions: Registration page is loaded. Steps: User loads form and submits it without filling in blanks	User see an error message for invalid fields	
Task Creation	Preconditions: User	Task is added to the	

(Ethan Surber) Functional	logged into system. Steps: User creates a new task with title and priority	To-Do List with the selected priority.	
Task Prioritization (Ethan Surber) Functional	Preconditions: User has tasks in their To-Do List. Steps: User sets a priority for an existing task.	Task priority updates with appropriate color coding.	
Real-Time Notifications Setup (Ethan Surber) Functional	Preconditions: User is logged in on the dashboard. Steps: User enables task reminders and sets notification frequency.	User receives notifications based on selected.	
Login with Valid Credentials (Yasser Algburi)	Preconditions: User has a registered account. Steps: User enters a valid username and password then submits.	User is successfully logged in and redirected to the dashboard	
Login with invalid credentials (Yasser Algburi)	Preconditions: User is on the login page. Steps: user enters incorrect username or password and submits	User sees an error message indicating invalid credentials.	
Password Recovery Process (Yasser Algburi)	Preconditions: User is on the login page and has forgotten their password. Steps: User clicks on “Forgot password”, enters their email and submits.	User receives a password recovery email with instructions	
Task deletion	Preconditions: User is	The selected task is	

(Yasser Algburi)	<p>logged in and has tasks in their to-do list</p> <p>Steps: user selects a task and deletes it.</p>	removed from the to-do list and a confirmation message is displayed.	
Search functionality (Yasser Algburi)	<p>Preconditions: User has multiple tasks in their to-do list</p> <p>Steps: User enters a keyword in the search bar and initiates the search</p>	The system displays the tasks that match the keyword	
Session timeout and auto logout (Yasser Algburi)	<p>Precondition: User has an account and is logged in</p> <p>Steps: user must be inactive and away from computer for twenty minutes</p>	The system logs the user out after inactivity.	