

REQUIREMENTS SPECIFICATION

Segfaulters

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User Story 1

As a Software Engineer, I want to set my work and break intervals, with options to extend them if necessary, so that I can adjust the Pomodoro cycles according to my needs throughout the day.

Acceptance Criteria:

- User can set work and break intervals (put default at 25 minutes work , 5 minutes break)
- User can extend the current session's work or break time by up to 10 minutes (max)
- Customizations are saved across sessions unless manually reset by the user

User Story 2

As a Software Engineer, I want to receive a notification when my work period or break ends so that I stay aware of the task changes without needing to constantly check.

Acceptance Criteria:

- Notification appears at the end of each work or break session that gives option to extend if needed
- Users can customize notification sounds/types
- Notifications persist even if the user is working on another tab
- Notifications can be closed or opened to confirm starting a new task

User Story 3

As a Scrum Master, I want to set a team-wide Pomodoro Schedule with the PomBot during sprint planning sessions so the team stays on track and discussions don't exceed time limits.

Acceptance Criteria:

- Scrum Master can set Pomodoro intervals for each part of the session
- Notifications appear for everyone to signal when to move on to the next agenda item
- The Scrum Master can extend or shorten intervals if a specific task needs more flexibility

- The team receives a summary report at the end of the session to show how much time was on each agenda item

User Story 4

As a project manager, I want PomBot to give me recommended break intervals so that I can encourage balanced work and rest for my team without needing to determine these intervals manually.

Acceptance Criteria:

- The PomBot calculates recommended break intervals based on previous sessions/extensions made by the user
- The recommended intervals are presented to the user in a user friendly manner.

Function Points

• User Story 1

- Customization inputs for intervals and extensions: 3 points
 - Explanation: We think this would only require simple complexity because for a user we only need to store the input from the user (for how long they want to extend their interval). The slight complexity comes from changing some of the logic for how long the pomodoro work times must be and when the notification should notify the user when time is up.
- Timer persistence: 3 points
 - Explanation: Assuming that we always store the timer of the current Pomodoro cycle, this should not be too difficult. Assuming we use Unix time from the start of the cycle to the end of the cycle, we can just continuously store the Unix time, and keep checking if the difference between the current time and the time the cycle started is 25 minutes.
- UI for task timing and break timing settings: 3 points
 - Explanation: UI will require front end coding for the settings, but it isn't too different from how normal notification settings are made, so we have selected this as simple complexity.
- **TOTAL: 9 points**

• User Story 2

- Notification system with customizable sounds: 5 points
 - Explanation: This will be slightly tricky because we have to make the system customizable and accept user input. The system must also have specific sounds made for each notification the user selects. Additionally, we will make the system event-based and determine when the user will want a notification versus when they will not want a notification.
- UI for notification settings: 3 points
 - Explanation: UI will require front end coding for the settings, but it isn't too different from how normal notification settings are made, so we have selected this as simple complexity. This will also be integrated with

the task/timing settings, so the input will be the same for all of these features in the settings.

- **TOTAL: 8 points**

- **User Story 3**

- Team wide session initiation and customizable inputs: 5 points
 - Explanation: This functionality is medium complexity/slightly harder to create specific visualizations for the productivity of the session. We must create visualizations that reflect the productivity of a session
- Send meeting summary report: 5 points
 - Explanation: This functionality is medium complexity/slightly harder. This cannot be handled manually, so we would have to create a event based job - whenever a team Pomodoro session is completed a summary containing the list of tasks, breaks, and timings for the Pomodoro session will be sent to everyone in the team (provided their email was written when indicating that the session would be a team Pomodoro)

- **TOTAL: 10 points**

- **User Story 4**

- Calculation of recommended break intervals: 7 points
 - Explanation: This task involves PomBot generating break intervals based on established guidelines and also including internal data from the user. Since this feature must provide recommendations that also maintain best practices, the complexity is moderately high, as it requires logic for determining the best intervals (this could involve using algorithms).
- Presenting break internal recommendations: 2 points
 - Explanation: Once the break intervals are calculated, PomBot will need to display this information in a user friendly way. This type of presentation only requires some basic UI, which is why we decided this functionality needs only 2 function points (relatively simple subtask).
- **TOTAL: 9 points**