**Clocked in**

**Ananya M and Nikhil Q**

# PROJECT PROBLEM STATEMENT

This project aims to address that issue by developing a task tracker with an integrated calendar and reward system that encourages productivity through goal-setting and XP rewards.

# CONCISE DESIGN OVERVIEW

allows users to log completed tasks, set daily task goals, and manage to-do lists on a built-in calendar. Each completed task gives the user 10 XP, and meeting a daily goal results in bonus XP. The calendar feature allows users to plan tasks on specific dates, and tasks marked as completed on the calendar are automatically added to the XP system. all task data and calendar entries are saved locally so that progress is not lost. This program promotes consistency by combining organization with a simple reward system.

# SCOPE STATEMENT

In Scope:

* Task entry with automatic date and time logging
* XP system that rewards task completion and daily goal achievement
* Daily goal-setting feature
* Interactive calendar for creating and managing to-do lists on specific dates
* Local file or database storage for all data

Out of Scope:

* Multi-user support or login features
* Cloud syncing or remote access
* Advanced analytics or data visualization tools

SMART Goal: Complete a fully working version of the program in a week, with functionality tested across at least five calendar days and thirty task entries.

# TIMELINE

5/21: code Journal List

5/25: code Goals and Calendar

5/25: finish Project Specification sheet

5/28: code Priority levels

5/29: code habit tracker

# TEST PLAN

Manual Testing:

* Add and complete tasks to confirm XP is awarded correctly
* Set and meet daily goals to confirm bonus XP is added
* Test calendar functionality by adding, editing, and deleting to do list items
* Verify data persists correctly after closing and reopening the program
* Try random cases such as blank inputs, extreme task goals, and past dates

# RISKS AND CONTINGENCY PLANS

|  |  |  |
| --- | --- | --- |
| **Risk** | **Likelihood** | **Mitigation Plan** |
| Calendar bugs (incorrect dates or tasks) | Medium | Use a tested UI framework and review date logic carefully |
| Data loss or corruption | Low | Implement auto-save and regular backups |
| XP system errors (incorrect reward logic) | Low | Write unit tests and test with various task amounts |
| Users forgetting to use the program | Medium | Consider adding a streak system or daily reminder feature in a future update |