

# Space Calendar

## Team #22

**Members:** Sam (Kiara) Grimsley, Audrey Pan, Ella Nguyen, Hart Nurnberg, Yuwen (Reeny) Huang, Lauren D'Souza

## #1 Setup Github

Story Point(s): 1 | Name: Kiara

- Set up the team's GitHub repository to centralize collaboration and version control. This included creating the repo, adding all collaborators, and establishing a clear branching strategy.
- The purpose was to give everyone a single source of truth for all project files and ensure that code updates were tracked, reviewed, and merged efficiently.
- While it was quick to complete, this task will be a vital foundation for maintaining organization, preventing version conflicts, and keeping the project workflow consistent across contributors.

## #2 Setup Python Environment

Story Point(s): 1 | Name: All

- The entire team collaborated to create a consistent Python environment across all development machines.
- This involved setting up virtual environments, installing shared dependencies, and ensuring that everyone could run the project locally without compatibility issues.
- Establishing this environment early prevented future setup problems, allowing smoother progress and more reliable debugging as the team began implementing core features.

## #3 Create UI Draft (Physical)

Story Point(s): 2 | Name: All

- Collaboratively designed a physical sketch of the app's layout, focusing on the user's perspective and flow through different screens.
- The team discussed navigation patterns, key UI elements, and user interactions to align everyone's mental model of how the app should look and feel.

- This rough draft acted as a prototype that guided later digital mockups and influenced the visual direction of the application.

## #4 Research: Databases, Hosting, Libraries, etc.

Story Point(s): 5 | Name: All

- Conducted thorough research into suitable technologies for the project, including backend frameworks, databases, and hosting options.
- Compared tools such as Django vs. Flask for backend implementation, and looked into SQLite and PostgreSQL for managing user data.
- The goal was to identify efficient, lightweight, and scalable options that fit the MVP's scope while leaving room for growth in future sprints.
- This research directly informed later architectural decisions, ensuring that every major tool or library used in the project was selected with purpose and understanding.

## #5 Create Initial Architecture Document (Except Diagrams & Descriptions)

Story Point(s): 3 | Name: Reeny

- Drafted the initial version of the project's architecture document, outlining the structure, objectives, and key system components.
- The document summarized the app's functionality, technologies, and dependencies, but excluded diagrams and detailed architecture descriptions (added in subsequent tasks).
- This early documentation provided a baseline reference for all team members and made it easier to coordinate roles, ensure clarity, and communicate ideas effectively.

## #6 Decide MVP

Story Point(s): 3 | Name: All

- The team collaborated to define the Minimum Viable Product (MVP), focusing on essential functionalities needed to create a usable, demonstrable version of the app.
- Discussions centered on balancing ambition with practicality- deciding which features were critical (like calendar import/export) and which could wait until later sprints.
- Establishing these MVP requirements ensured that development stayed focused and achievable within the project timeline, minimizing feature creep.

## #7 Develop Initial Questionnaire

Story Point(s): 2 | Name: Hart & Audrey

- Designed an initial questionnaire aimed at collecting user preferences to customize time slot recommendations.
- Brainstormed questions related to user schedules, productivity patterns, and learning preferences, ensuring the data gathered would later influence personalized scheduling outputs.
- The questionnaire became a key foundation for user input features, bridging the gap between raw calendar data and meaningful schedule suggestions.

## #9 Implement Calendar Import/Export

Story Point(s): 5 | Name: Kiara

- Implemented the import/export functionality for calendar files in .ics format, forming one of the core technical components of the app.
- The process involved parsing calendar events, managing data consistency, and testing interoperability with other scheduling tools.
- This feature enables users to seamlessly bring in their existing events and export generated schedules, connecting our system with real-world calendar applications.

## #16 Create Sample Data

Story Point(s): 2 | Name: Reeny

- Created several sample .ics calendar files containing mock events to serve as test data for development and debugging.
- The files represented different user scenarios and workloads, helping the team validate import/export performance and simulate realistic app interactions.
- This sample data was essential for early-stage testing before real user inputs were available, ensuring that new features could be verified immediately.

## #18 Create Reference Stories

Story Point(s): 2 | Name: All

- Developed a set of reference user stories to serve as baselines for estimating story points in future tasks.
- Each reference story captured a clearly defined task with known difficulty, making it easier to assign consistent point values later.

- This exercise helped improve estimation accuracy, promoted fairness in workload distribution, and reduced uncertainty during sprint planning meetings.

## #22 Testing Features

Story Point(s): 5 | Name: All

- In this initialization stage, the team performed light testing focusing on verifying that basic components, such as import/export functionality and early UI features, worked correctly.
- Most testing was manual, aimed at catching early bugs and confirming system stability during setup.
- As development progresses, testing will become more involved, expanding to include structured unit, integration, and end-to-end tests to maintain quality as new features are added.

## #25 Setup Website

Story Point(s): 5 | Name: Kiara

- Developed the initial skeleton of the website using Django, establishing the project's foundational structure.
- This setup included creating necessary folders, initializing routing, and linking the front-end and backend for future integration.
- The website skeleton served as a launch point for subsequent sprint work, allowing the team to immediately begin building and testing real features in a cohesive environment.

## #43 Create UI UML Diagram

Story Point(s): 5 | Name: Ella

- Designed a UML diagram mapping the overall user flow of the app, showing how users navigate between screens and interact with features.
- The diagram provided a visual understanding of the system's behavior and helped ensure design consistency between the UI and underlying logic.
- This artifact was valuable for both documentation and team communication, aligning developers and designers on how the application should function from a user perspective.

## #44 Create Import/Export UML Diagram

Story Point(s): 5 | Name: Audrey

- Created a UML diagram specifically for the import/export process, visualizing how the system reads and writes .ics calendar files.
- The diagram mapped out the data flow and key interactions between components, clarifying how data moves from file to program and back.
- This visualization helped the team identify dependencies early and served as an implementation guide for backend development.

## #45 Create UML State Diagram

Story Point(s): 5 | Name: Lauren

- Created a detailed UML state diagram illustrating how the website transitions between states based on user actions and inputs.
- The diagram depicted possible user interactions and system responses, showing how the site maintains consistent behavior under different scenarios.
- This helped developers understand how dynamic elements of the app should react, reducing ambiguity in implementation and debugging later on.

## #46 Architecture Summary

Story Point(s): 2 | Name: Hart

- Wrote a comprehensive summary of the app's overall architecture, tying together the front-end, back-end, and data flow components.
- The summary included a discussion of technologies used and how data travels through the system.
- This write-up provided a big-picture overview that will help the team quickly understand how all parts of the project fit together.