Space Calendar

Team #22
Members: Sam (Kiara) Grimsley, Audrey Pan, Ella Nguyen, Hart Nurnberg, Yuwen (Reeny) Huang, Lauren D'Souza

#12 Edit Event Title/Status Fields

Story Point(s): 3 | Name: Lauren

- Allow users to edit existing events by modifying their title, details, and completion status directly within the app
- Provide an intuitive interface for quick adjustments without requiring re-importing or deleting the event
- Improve flexibility and user control over schedules by supporting real-time edits to existing tasks

#14 Recap Questionnaires (i.e. Did They Like the Study Times?)

Story Point(s): 2 | Name: Audrey

- Prompt users with a short recap questionnaire after a set time period (e.g., one to two weeks) to evaluate their study sessions
- Collect feedback from users about their satisfaction with their scheduled times and workload balance
- Use the responses to automatically refine user preferences and improve future schedule recommendations

#20 Toggle Between Day -> Week -> Month

Story Point(s): 5 | Name: Kiara

- Enable users to switch between daily, weekly, and monthly calendar views for flexible visualization
- Adjust layout dynamically depending on the selected view
- Provide a smoother user experience that supports both detailed and high-level schedule management

#21 Recalculate Event Times

Story Point(s): 3 | Name: Hart

- Allow users to reschedule individual events after receiving their initial suggested time
- Automatically suggest alternate time slots based on availability, preferences, and workload balance
- Increase interactivity and personalization by letting users fine-tune their schedules as needed

#26 Auto-Reschedule on Conflicts or Missed Sessions

Story Point(s): 5 | Name: Hart

- Automatically detect when a user marks an event as missing or conflicting and reassign it to a new available time slot
- Use scheduling logic that maintains balance while minimizing overlap with existing commitments
- Reduce manual adjustments and help users recover from schedule disruptions effortlessly

#29 Focus Mode (Hide Non-Study Events for Clean View)

Story Point(s): 2 | Name: Kiara

- Introduce a “Focus Mode” toggle that filters the calendar to show only study-related events
- Allow users to hide non-study or personal items for a cleaner, distraction-free view
- Enhance productivity and reduce visual clutter during active work periods

#32 Category Color-Coding & Study-Types Legend

Story Point(s): 2 | Name: Kiara

- Color-code calendar events based on category (e.g., study, project, break) for better visual organization
- Provide a legend explaining each color and allow users to customize category colors
- Make the schedule easier to interpret at a glance, improving readability and user personalization

#33 “Reschedule All” Tool

Story Point(s): 3 | Name: Hart

- Add a tool that lets users completely regenerate their schedule if they want a fresh layout or new timing arrangement
- Recalculate events automatically based on user preferences and available time slots
- Provide flexibility for users who want to experiment with new routines or adjust for major changes

#34 Priority Weights (Exam > Project > HW)

Story Point(s): 5 | Name: Ella

- Introduce a weighting system that prioritizes events based on importance (e.g., exams first, then projects, then homework)
- Integrate weights into the scheduling logic so that higher-priority events are placed earlier or in prime time slots
- Help users stay organized and focus on tasks that matter most

#35 Undo/Redo History for Schedule Edits

Story Point(s): 3 | Name: Ella

- Track user modifications to the schedule, enabling undo and redo actions for easy revision
- Preserve a history of recent edits without requiring a full refresh or reload
- Provide safety and flexibility by allowing users to experiment with different layouts confidently

#36 Questionnaire-Driven Personalization

Story Point(s): 5 | Name: Lauren

- Utilize user responses from the preference questionnaire to guide how the scheduling algorithm generates events
- Prioritize preferred study times, durations, and breaks before randomizing placements
- Personalize the scheduling experience to align with individual user habits and productivity patterns

#38 Build User Login & Logout (Basic Auth)

Story Point(s): 5 | Name: Reeny

- Implement a secure login and logout flow that links each user to their own calendar and stored preferences

- Use authentication to prevent unauthorized access to other users' data
- Establish the foundation for persistent accounts, enabling personalized and protected user sessions

#40 Track Study Completion Stats

Story Point(s): 3 | Name: Audrey

- Design a statistics page summarizing user study activity, including total time spent per event type
- Present metrics in a simple, visual format to help users track productivity trends
- Build an extensible system to support additional analytics features in future sprints

#41 Monthly Overview Heatmap (Average Study Hours)

Story Point(s): 5 | Name: Audrey

- Create a visual heatmap on the monthly calendar to display average study hours per day
- Use color intensity to represent workload, allowing users to spot trends
- Provide a motivating and data-driven way to monitor long-term study consistency

#42 Delete Event

Story Point(s): 2 | Name: Ella

- Allow users to delete existing events directly from their schedule with a simple interface
- Include confirmation prompts to prevent accidental deletions
- Streamline calendar management by enabling users to remove unwanted to outdated entries easily

#19 Create Native Calendar UI

Story Point(s): 8 | Name: Kiara

- Introduce an in-app native calendar interface that lets users visualize their schedules directly within the application
- Display both imported and newly generated events, updating dynamically as users add, remove, or modify tasks
- Provide an intuitive and interactive layout that improves usability and reduces reliance on external calendar tools

#22 Testing Features (Recurring Requirement)
Story Point(s): 8 | Name: All

- Expand testing coverage as new sprint features are introduced, including data storage, task creation, and scheduling logic
- Begin incorporating unit and integration tests to verify system reliability before deployment
- Emphasize early bug detection and quality assurance as the project transitions from setup into active feature development

#47 Artifacts Document (Recurring Requirement)
Story Point(s): 5 | Name: Ella

- Compile all sprint stories, descriptions, and planning details into a formal artifact document
- Maintain consistency with past sprint documentation while focusing on upcoming goals rather than completed work
- Ensure clear communication of sprint objectives, priorities, and rationale for each story

#48 Event Form Removal
Story Point(s): 1 | Name: Ella

- Adjust the form removal process on the Add Events page to ensure event deletions are handled correctly and consistently
- Verify that deleting an event through the interface also removes all corresponding data entries in storage
- Improve reliability and user experience by preventing orphaned events or mismatched data between the UI and database

#49 DB Helper Class
Story Point(s): 5 | Name: Reeny

- Develop a modular database helper class to centralize all database interactions
- Implement essential functions for adding, retrieving, updating, and deleting records related to events, users, and preferences
- Simplify backend development by providing reusable database logic that improves code maintainability and reduces redundancy

#50 Import File Pipeline

Story Point(s): 3 | Name: Kiara

- Create a complete import pipeline allowing users to upload .ics files directly into the web application
- Parse and validate uploaded calendar data before storing it in the database to prevent duplicates or formatting issues
- Strengthen integration between user-provided data and the internal scheduling system, enhancing overall usability

#51 Expand DB

Story Point(s): 2 | Name: Reeny

- Expand the database schema to include structured tables for events, users, and preferences
- Define clear relationships between tables to support the scheduling algorithm, personalization features, and account management
- Establish a scalable data model that can accommodate future features such as analytics, user history, and advanced scheduling logic

#31 Recurring Events

Story Point(s): 3 | Name: Hart

- Allow users to create recurring events that automatically repeat on multiple days at consistent times
- Include flexible options for daily, weekly, or custom recurrence intervals
- Strengthen the app's long-term scheduling capabilities and reduce repetitive manual input for users