

Project Specification for Group # 103

[see additional instructions on Quercus for filling in all parts of the blueprint]

Team Name: Thought-Vault

Domain:

Event and sub-event management

Software Specification:

This app, designed for efficient event and sub-event management, employs a storage system to store all the events inputted by users. Users can easily organize and view events, with support for sub-events, labels, and pins. The graphical user interface includes a home page for event lists, detailed event views, editing capabilities, and a calendar view. It integrates with Google Calendar for importing and exporting events. Users can configure the application settings to be notified before a certain event.

User Stories:

1. Bob wants to efficiently organize and keep track of upcoming events. He creates new events in the app, specifying their title, date, time, and location. He is shown a global view of the events he just created. [Team user story]
2. James wants to be able to add sub-events to a main event, including their titles, dates, times, and descriptions. Therefore, he can manage events with multiple components. [Kysen's user story]
3. Sarah wants to assign labels to events and sub-events. This allows her to categorise and filter events easily based on their label. [Annie's user story]
4. Alice wants to receive reminders for events she previously created. She selects a time interval at which she wants to receive a notification with the event's details. She receives a notification at the desired time. [Mehdi's user story]

5. John wants to be able to import events from his Google Calendar into the app, as well as exporting events from the app to his Google Calendar, enabling seamless integration with his existing calendar system. [Elsie's user story]

Proposed Entities for the Domain:

Event: (Sub-events have the same structure as events)

- Name (string): The title or name of the event.
- Date (date): The date of the event.
- StartTime (time): The time when the event occurs.
- EndTime (time): The time when the event ends.
- All-day (boolean): Checked if StartTime and EndTime not specified.
- Location (string): The physical location or the virtual meeting link of the event
- Description (text): A description of the event.
- Label (enumeration): Label or category associated with the event (either personal or work)
- Pinned (boolean): Indicates whether the event is pinned for quick access.
- Sub-events (list of event): The child events of this event

Notification:

- Event (event instance): The event to be notified
- Time (time): Time before the event occurs

Calendar:

- Details (dict): Retrieved from a JSON object storing the user's Google calendar details

User:

- Username (string): username of the user who is interacting with the Calendar
- API key (string): API key to interact with the aforementioned Calendar
- ID (int): unique identifier for each user
- Calendar (calendar instance): The Google Calendar associated with the user

Scheduled Meeting Times + Mode of Communication:

Meeting time outside of lab: **Wednesday 2-3pm**

Mode of Communication: **Discord group chat**