

Event Planning Software

<https://github.com/ShreyK7/gui-event-planner#>

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System Analysis

Description

This project designs and implements an event planning GUI tool in which users can create and manage events, or “parties” as well as their details. Each event has fields for an event name, budget, headcount, attendee list, and address. Planning the details for large events with 100s of potential guests can be extremely challenging and time consuming to deal with manually, so our event planning application seeks to simplify that process by automatically saving new events and changes to existing events to a file and allowing users the flexibility of easily customizing and saving events to view in the future.

Goals

The goal of this software is to enable users to add any number of events they want to a local file, and then be able to both browse and edit those events, deleting events as needed. For example, if a user is planning both a business event and a personal party, they can create 2 different events using the GUI and manage the details separately.

Benefits

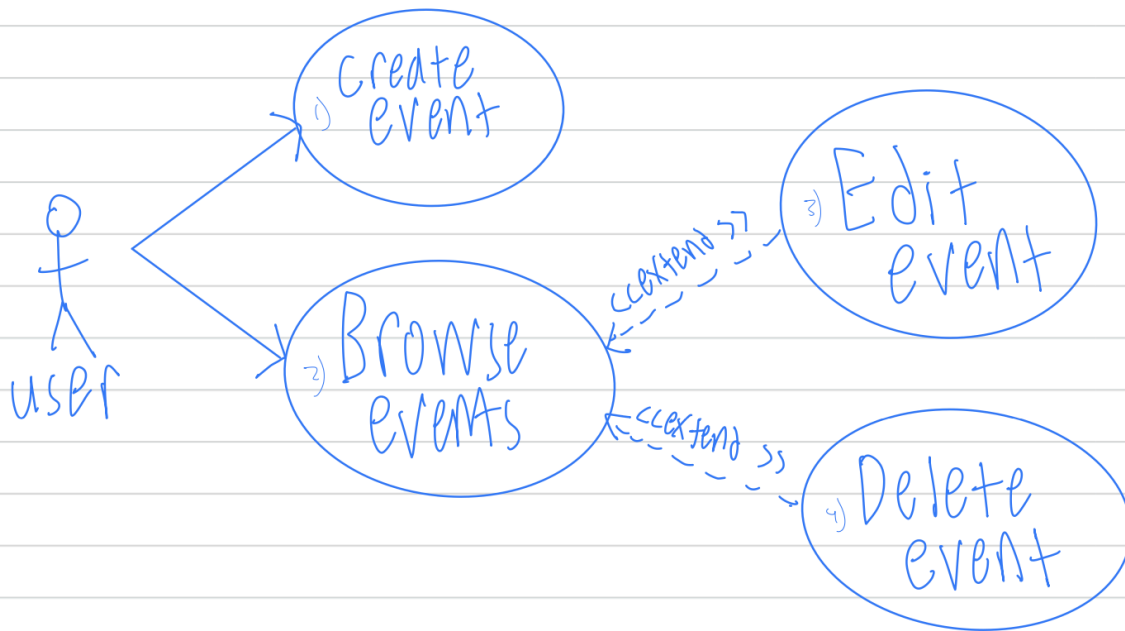
As mentioned above, the benefits of this software are to simplify the process of creating and managing large scale events, saving users the time it takes to manually keep track of different events - all event data is auto saved to the user’s system via a file writing helper class.

Special requirements

For the file writing helper class, each time the user accesses the application, the event data file must be accessible in the same directory as the source code if the user had previously created any events using the software, so that upon each subsequent access the user will have access to previous events they created. Additionally, the system should handle any formatting for event detail inputting via the GUI.

Use Cases Diagram

Use case Diagram



Use Cases Descriptions

Use Case Ref # and Name	#1: Create event
Overview	Create new event with relevant details and save it to file
Related use cases	N/A
Actors	User

Use Case Ref # and Name	#2: Browse events
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Overview	Present all created events with details listed on the GUI
Related use cases	Edit event, delete event. Extend relationship with both (this UC is the base).
Actors	User

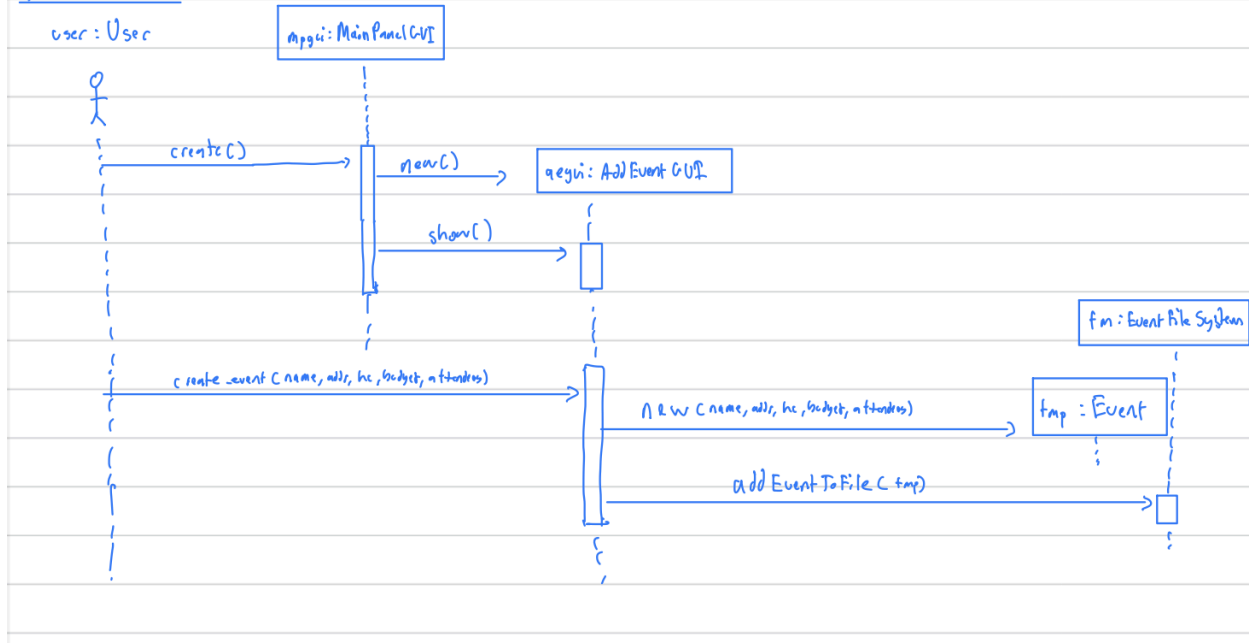
Use Case Ref # and Name	#3: Edit event
Overview	In a similar GUI as the add event GUI, edit any fields as needed of a selected event from the browse screen, and save the change to the data file
Related use cases	Extend relationship Browse events. (this uc is not the base)
Actors	User

Use Case Ref # and Name	#4: Delete event
Overview	Delete any selected event from the browse GUI, and then delete the event from the data file
Related use cases	Extend relationship Browse events. (this uc is not the base)
Actors	User

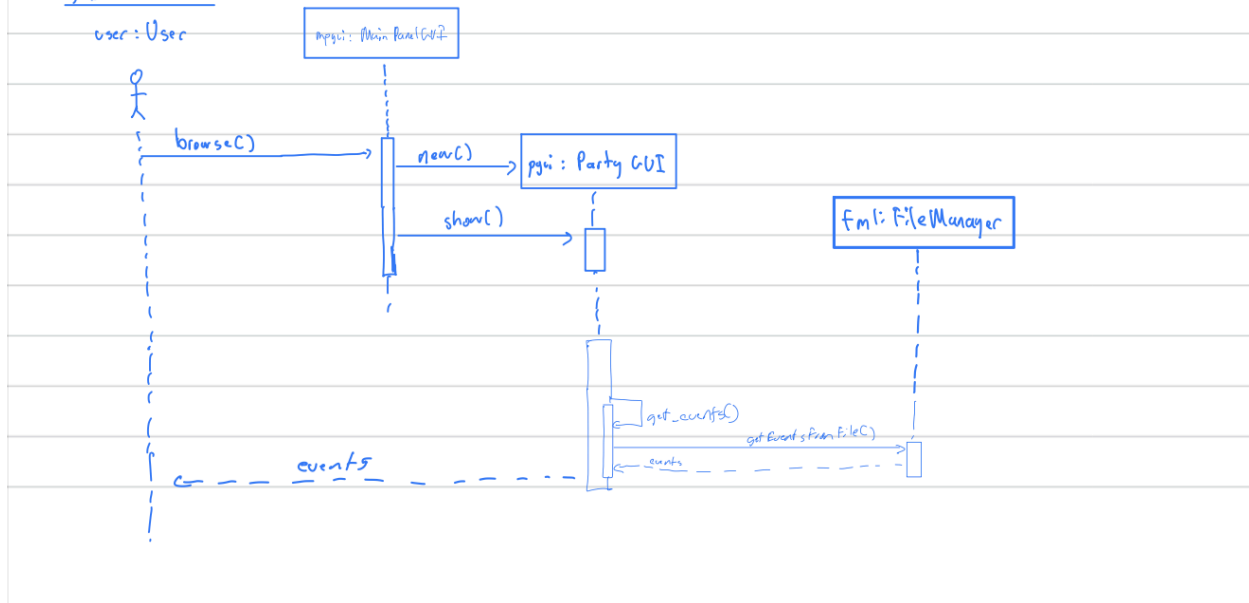
System Design

Sequence Diagram

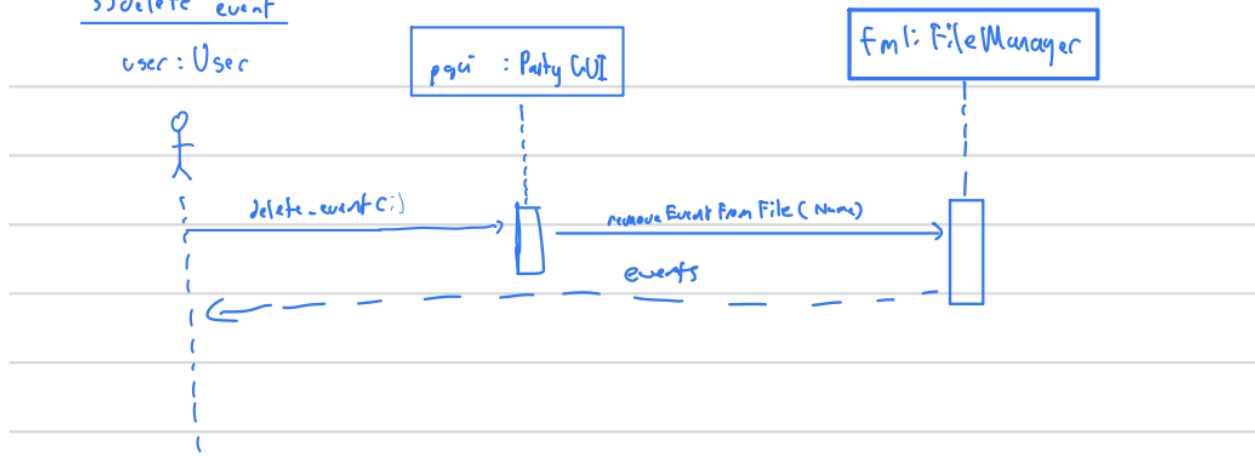
1) create event



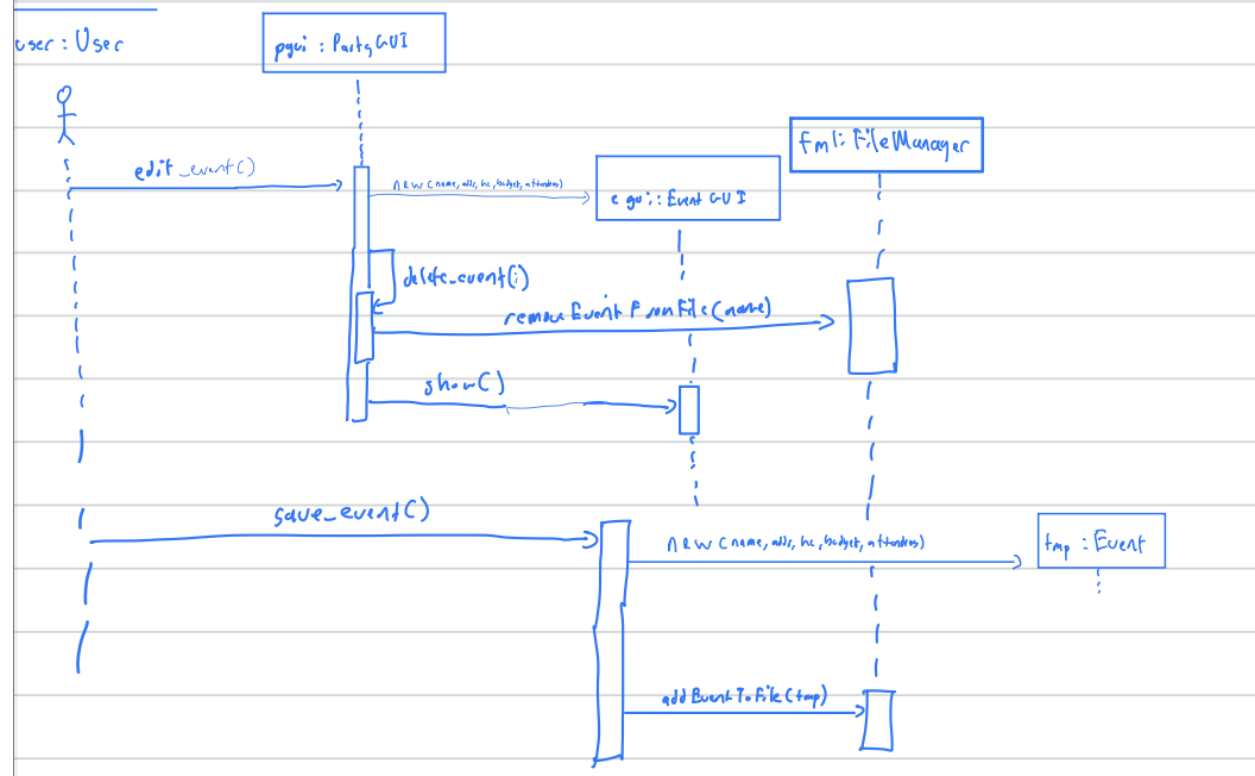
2) Browse Events



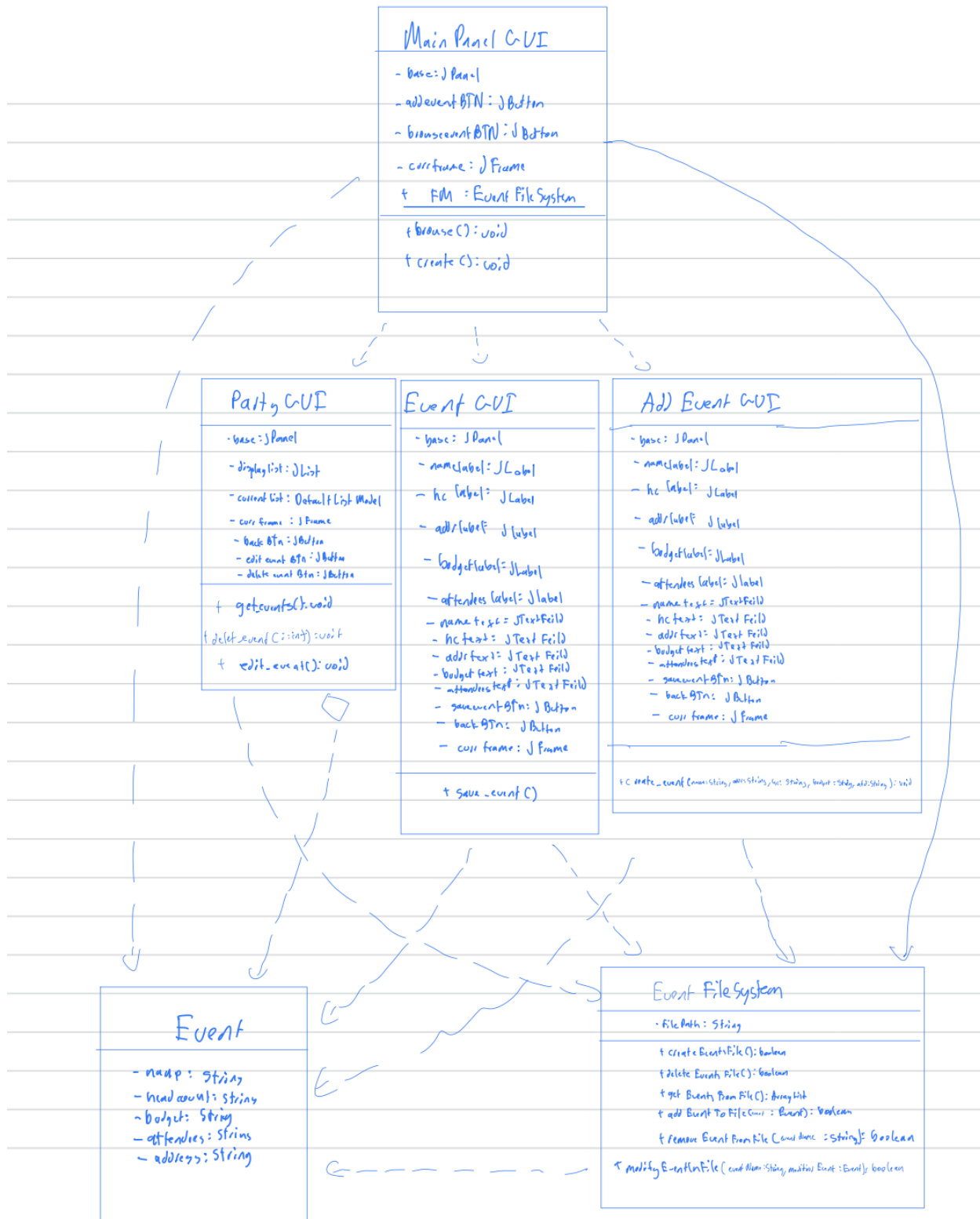
3) delete event



edit event



Class Diagram



Conclusion

This project was completed in full by Shrey Khater and Akshat Chavan Patil.

The group made this for the point of view of the host, but plans to extend to other user personas. This scoped view was to fit the time given in this class. Also, the initial proposal draft had some use cases that were incorrect / not actually use cases so we filtered those out.

The group plans to expand this project by updating the UI and allowing access for other user personas like guests or vendors. The group also plans to do customer research to understand what features should be build out to support the needs of our customers. Overall, the group feels strong about the foundation that they have built with this project and are excited to expand on it.

Thank you for reading.