Sara Kim

Intro to MacOS Development

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Project 02

Overall Application

The application is a standard calendar/planner app, meant to be used to keep track of daily tasks, homework, grocery shopping lists, etc. Users can add new lists and new tasks on those lists, where each task has a due date can be checked off as complete or incomplete. The calendar section of the app allows a user to pull up the complete list of tasks for a given day.

Why the Application is Important and What Problems it Solves

This application is intended to be a useful organizational tool to help the user organize their thoughts and the tasks they need to accomplish. Example use cases are for homework assignments, to keep track of events (social events, appointments, etc.), and grocery shopping lists. This application provides a user-friendly way to organize and manage a busy schedule. The virtual nature of this application makes it easier to use and more flexible than a classic paper planner.

How the Application Differs from Similar Applications

The application differs from similar ones in that it allows the user to look at multiple different pieces of information at once, which can help the user organize their tasks more effectively. Additionally, being able to look at tasks based on both their category (Lists) and their due date (calendar/day view) is a useful feature.
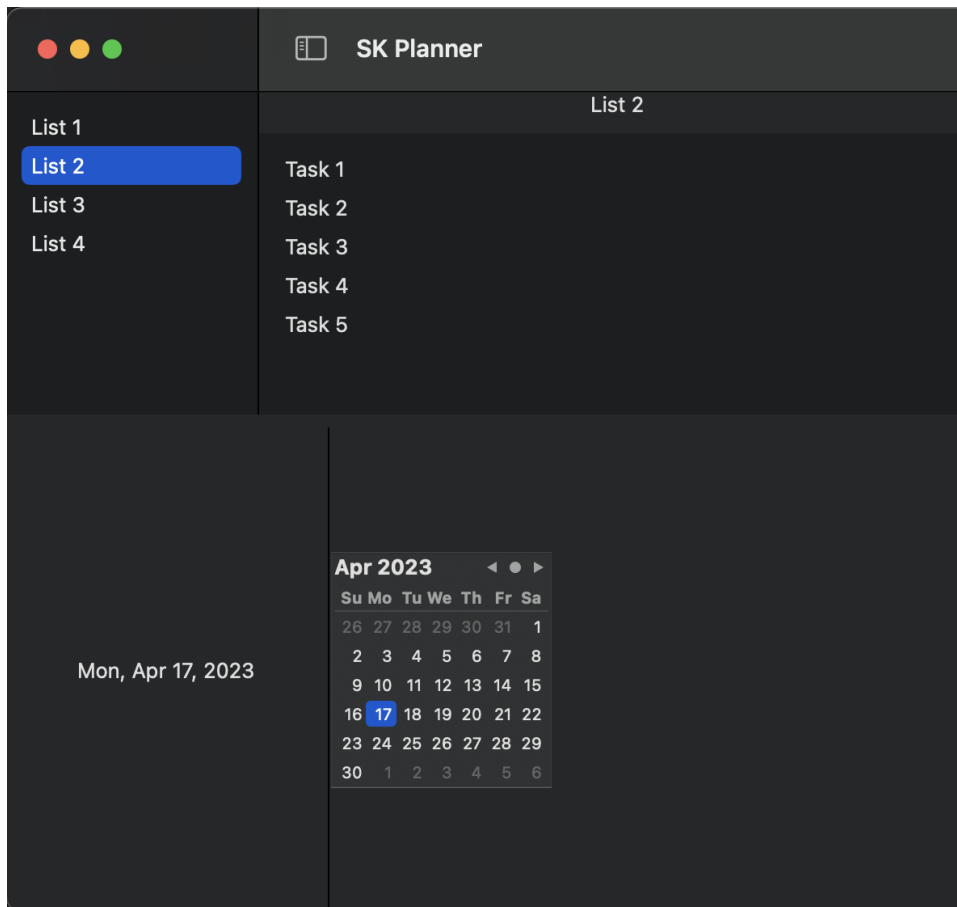
External Data Needed

No external data is needed for this application. The data is entirely based on direct user input to the application.
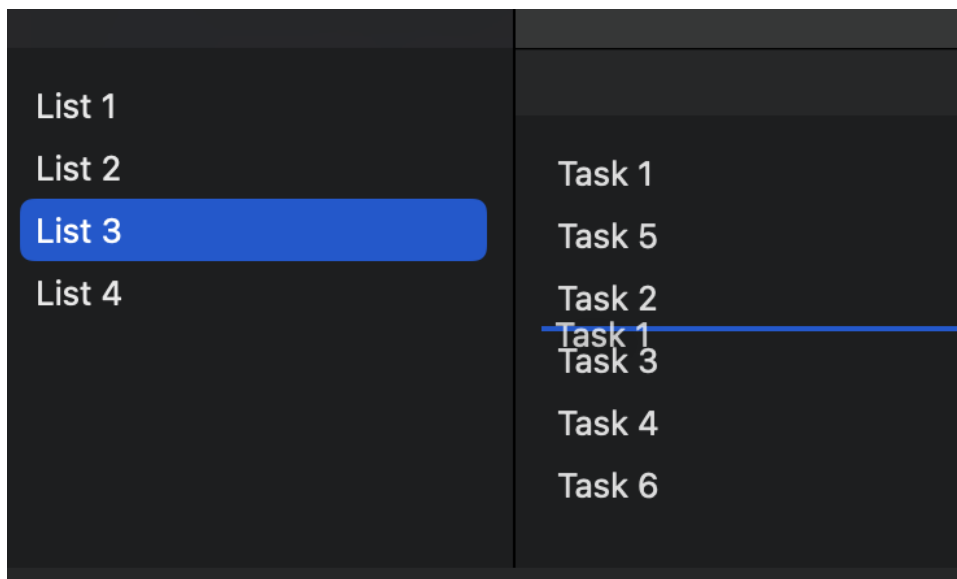
Application State and Data to Save/Persist

The application will save the most recent configuration of the UI (which lists were open for viewing, which day was selected on the calendar, the order tasks are sorted by) so that users can easily pick up where they left off. All data (lists, tasks, and their details) will also be saved, so that users do not have to re-add tasks, as this would be very frustrating for use as a planner app.
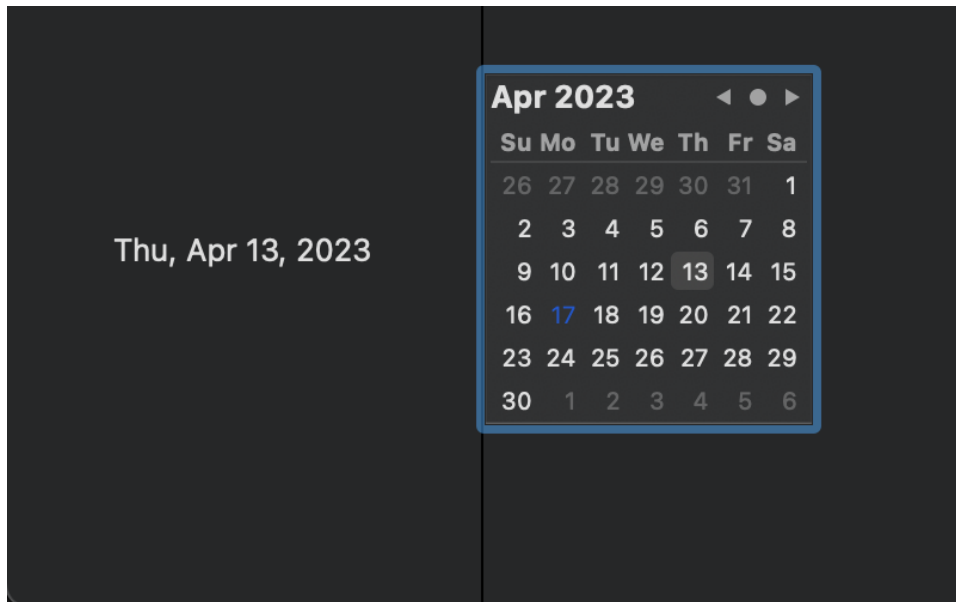
Overall GUI

Above is the overall GUI for the application, where the top half of the app is dedicated to showing the lists of tasks, and the bottom half is dedicated to the calendar view for displaying tasks for a given day.

The menu of lists allows the user to select which list they want to view, and pulls up the contents of that list to the right of the menu. This allows the user to interact with the list by altering, adding, marking complete, or deleting the tasks on the list. The user can also rearrange the tasks by dragging and dropping in the desired order (shown above).

The calendar allows the user to click on dates, and the text in the view next to the calendar changes immediately based on which day is selected (in the future, this box will display all of the tasks for a given day).