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Intro to MacOS Development

Spring 2023

## Project 03

### *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 add 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. Users can drag and drop to reorder the lists and tasks to their preference. There is also functionality for editing the details of a list or task to change its content.

### *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.

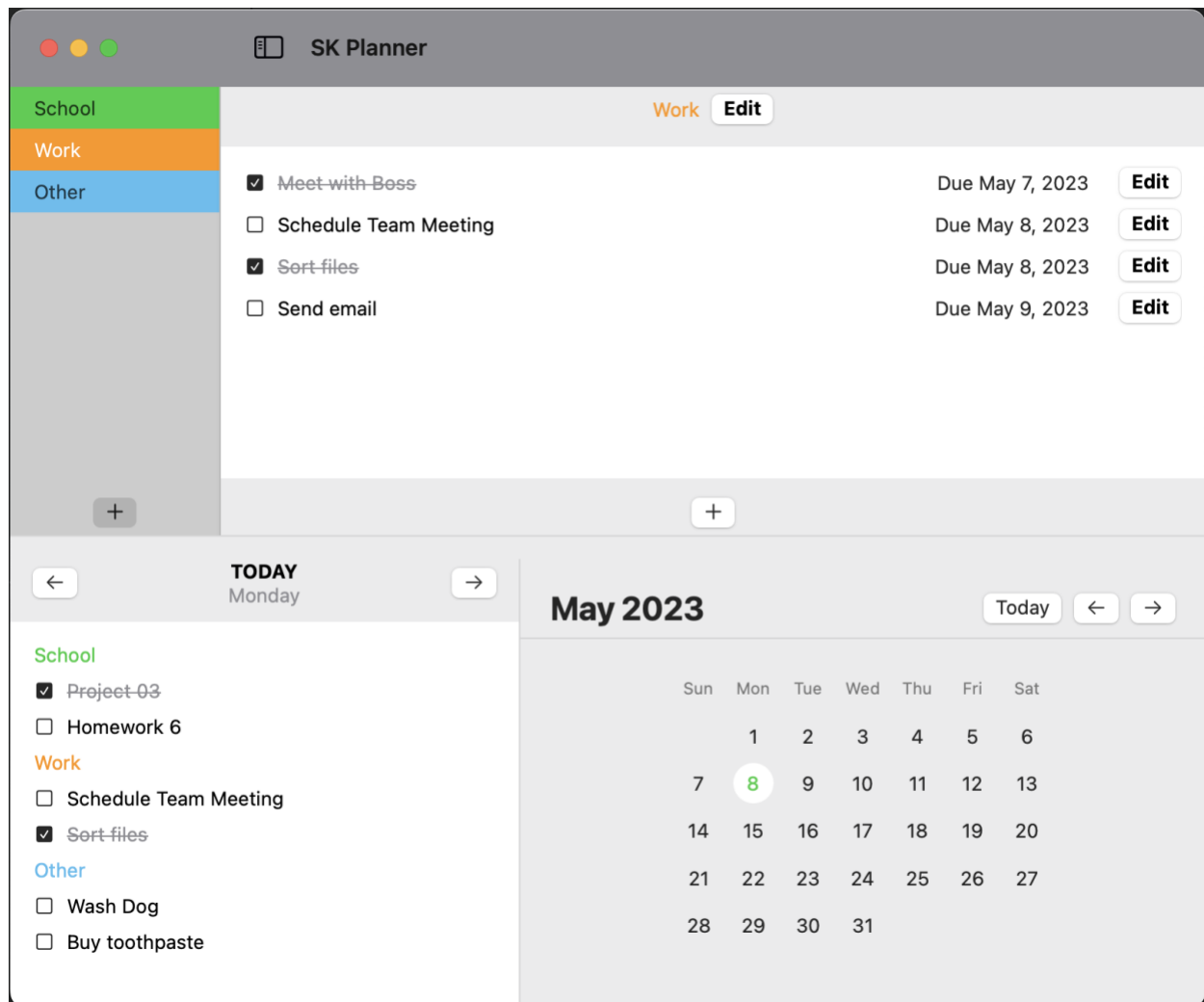
### *External Data Needed*

No external data is needed for this application. The data is entirely based on direct user input to the application.

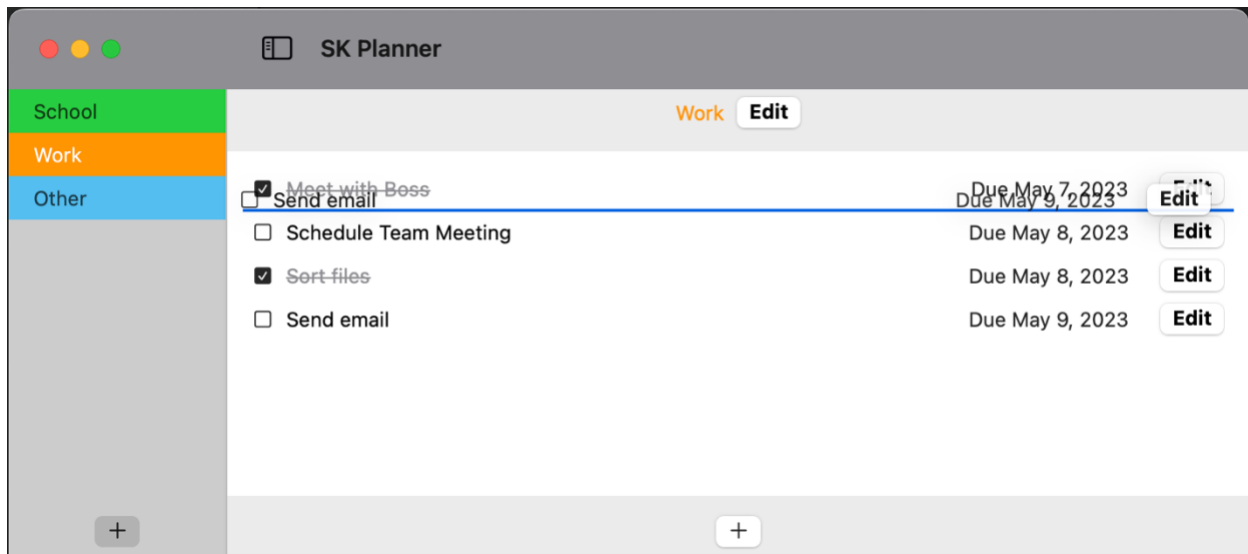
### *Application State and Data to Save/Persist*

All data (lists, tasks, and their details) will be saved, so that users do not have to re-add tasks, as this would be very frustrating for use as a planner app.

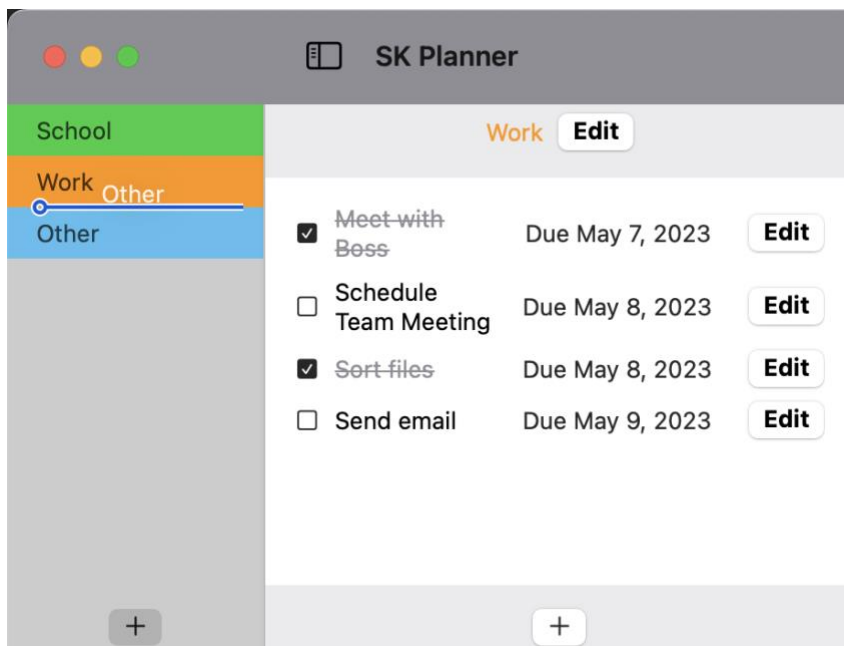
## Overall GUI



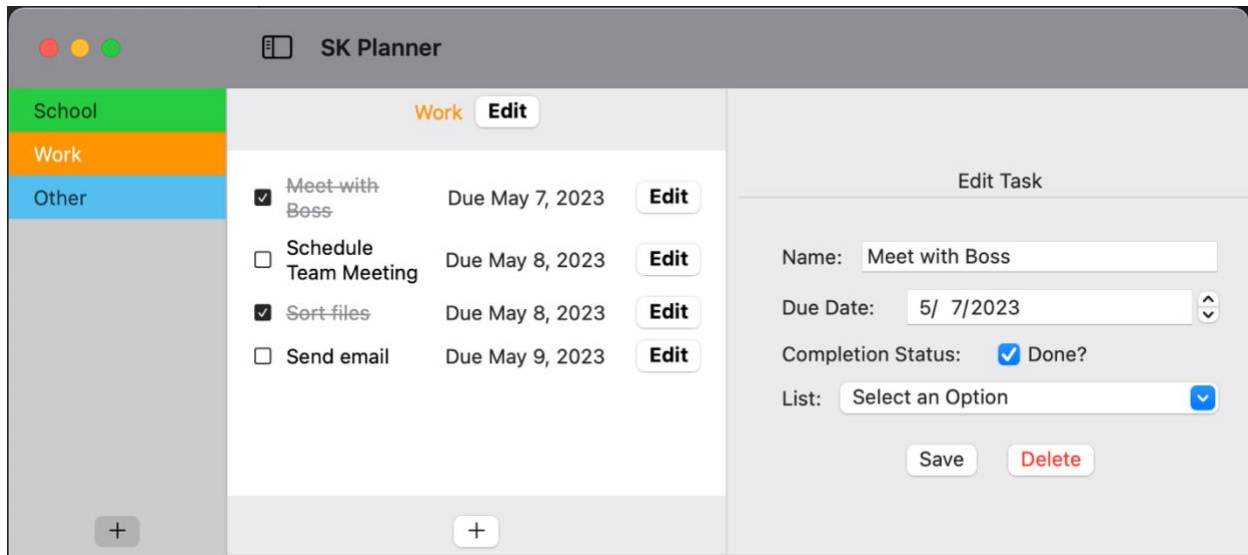
Above is the overall GUI for the application, where the top half of the app is dedicated to showing the lists of tasks, and the bottom half is dedicated to the calendar view for displaying tasks for a given day.



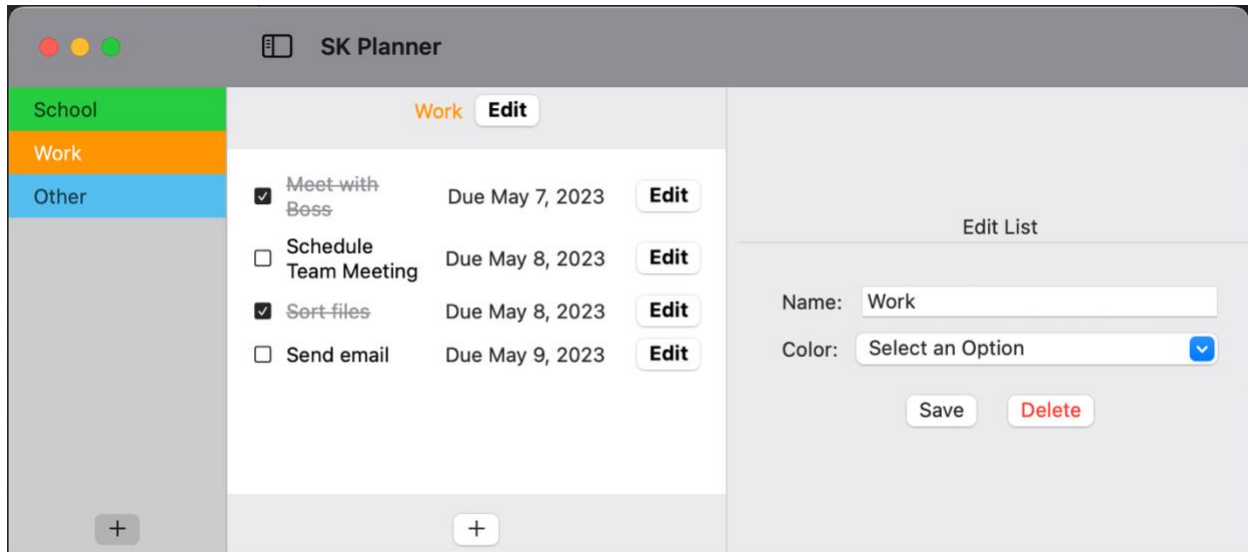
The menu of lists allows the user to select which list they want to view, and pulls up the contents of that list to the right of the menu. This allows the user to interact with the list by editing the list details, editing a task's details, adding a task, marking a task complete, or deleting a task on the list. The user can also rearrange the tasks by dragging and dropping in the desired order (shown above). The plus button underneath the list of lists adds a new list, and the plus button under the list of tasks adds a new task to the list that the user has open.



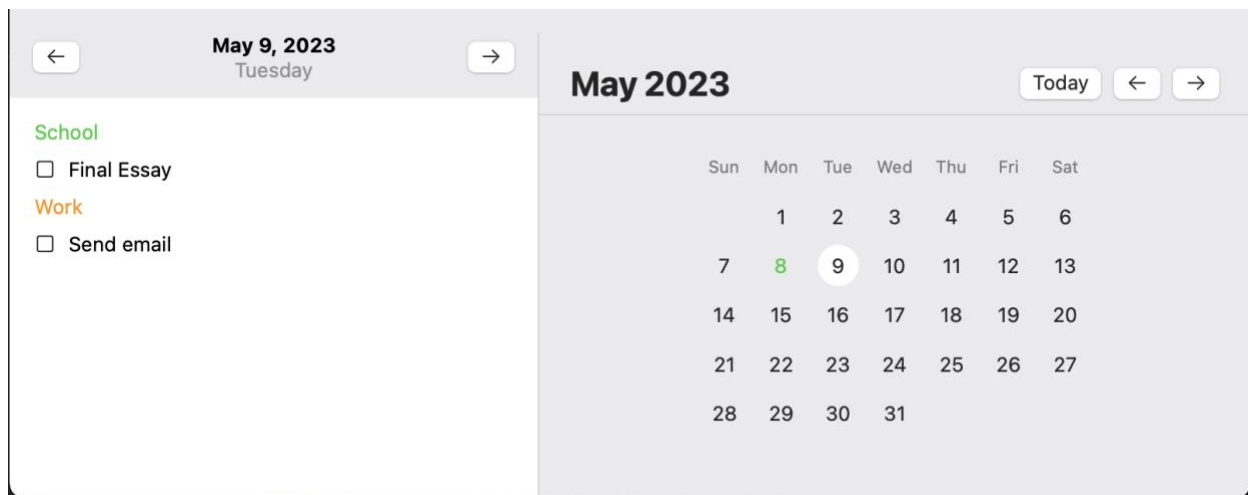
The lists are also rearrangeable.



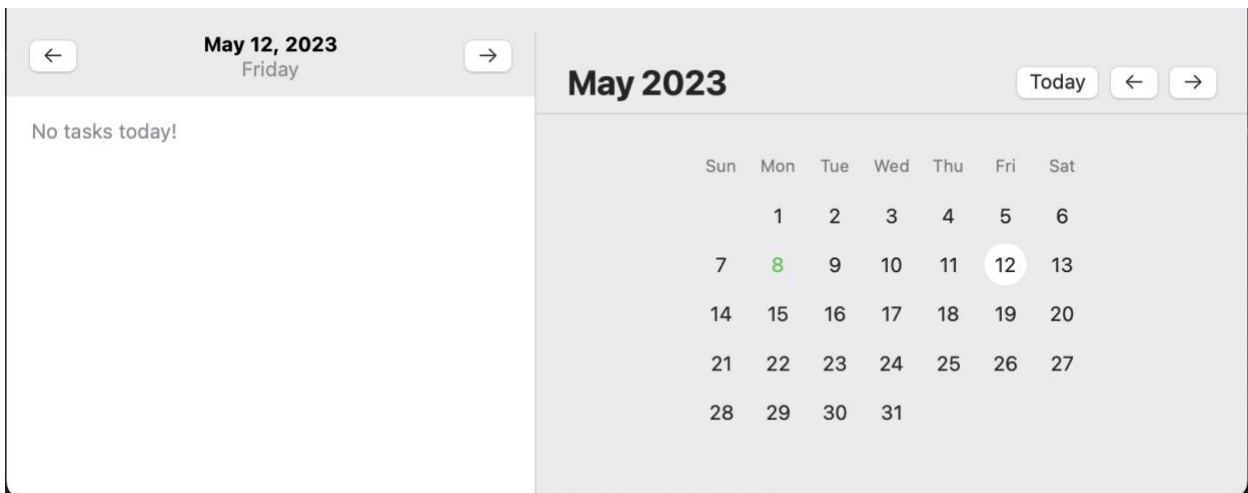
The Edit menu pops up when the user clicks any of the “Edit” buttons. The menu is different depending on whether the user is editing a list or a task on that list. For editing task details, the user can change the name, due date, completion status, and the list that the task is on. It also allows the user to delete the task. The Edit menu can be closed by clicking Save.



The list Edit menu is very similar to the task Edit menu, including Save and Delete buttons. It allows the user to change the name of the list and the color associated with the list.



The calendar allows the user to click on dates, and the day view to the left of the calendar changes immediately based on which day is selected. This day view shows all of the tasks due that day in every list, so that users can view tasks by due date in addition to by list. The arrow buttons on the calendar portion jump a month forward and backward, and the arrow buttons on the day view portion jump a day forward and backward. There is also a “Today” button on the calendar that will bring the user back to the current day. The current day is highlighted in green.



When there are no available tasks for a given day, the day view indicates that with a short message.