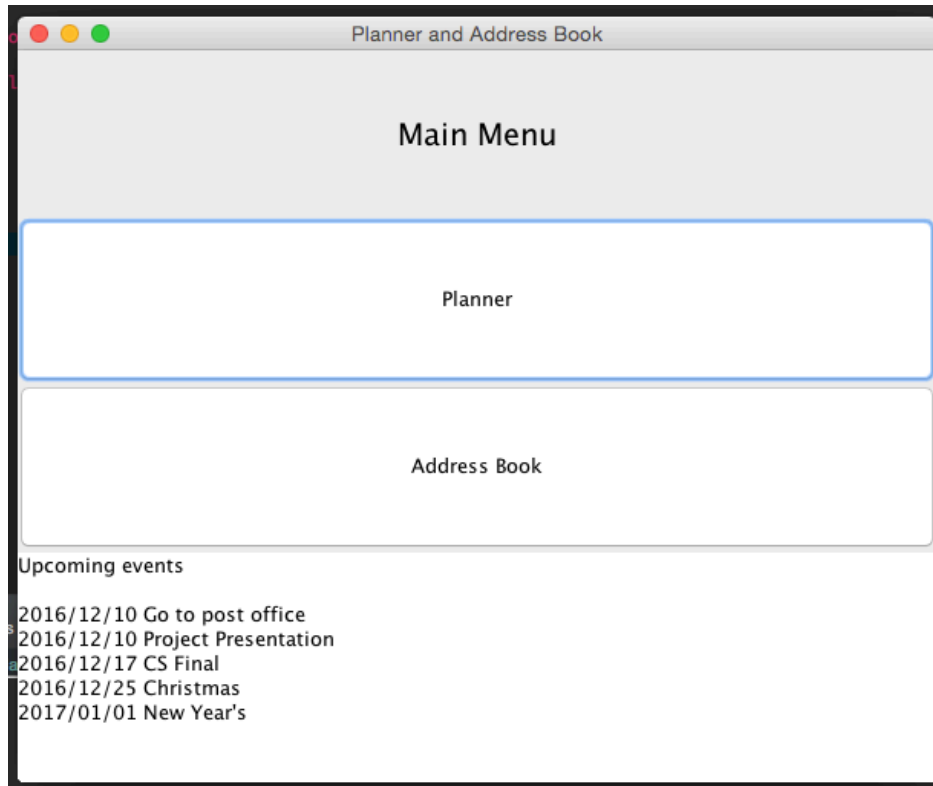
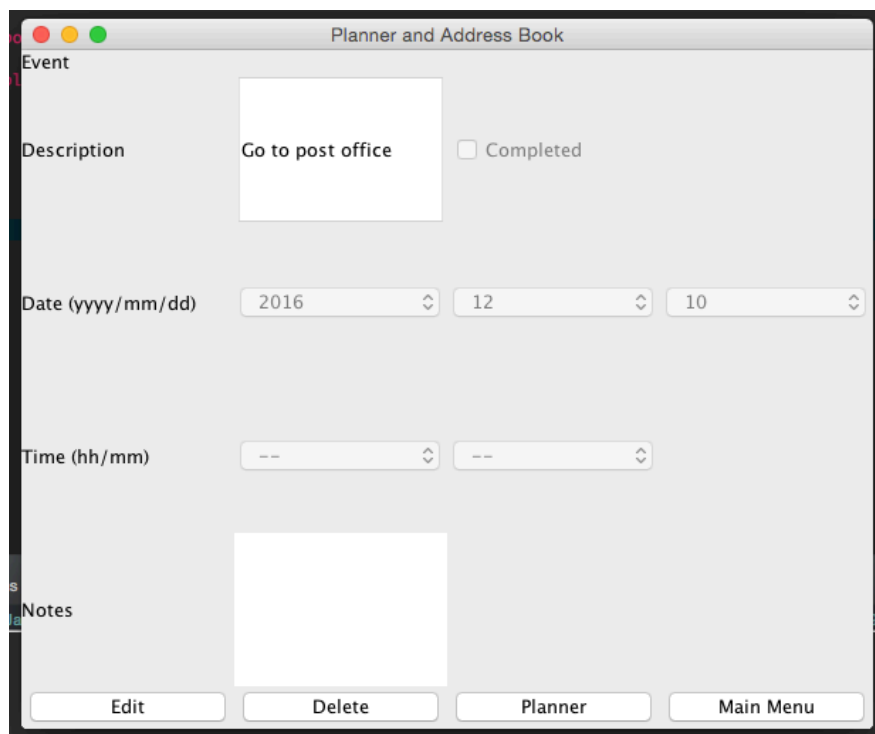
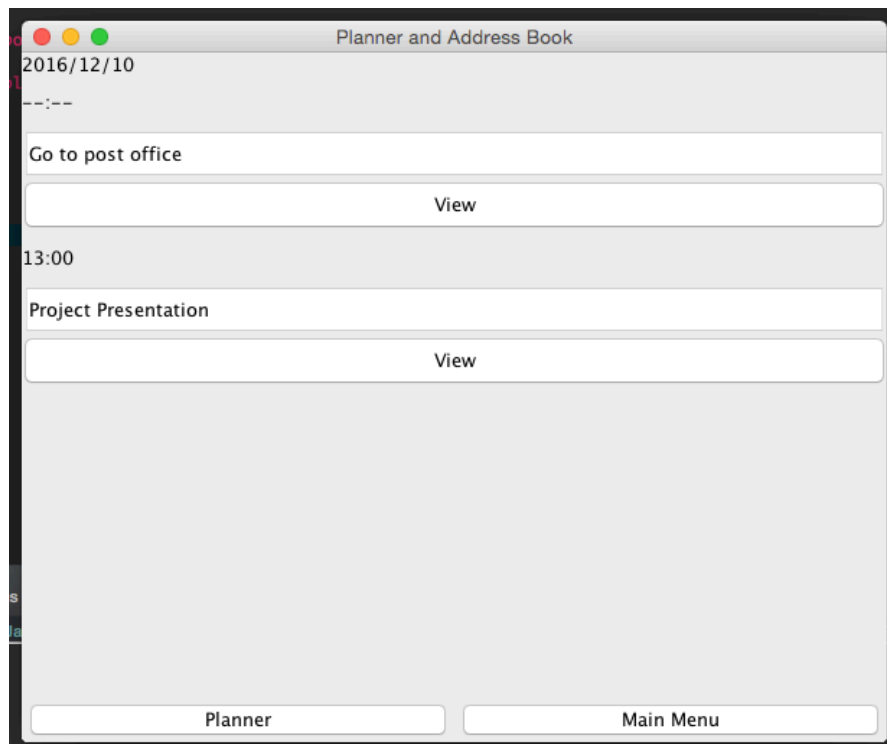


a) User Guide

This program functions as a simple planner and address book. From the main menu, the user can select to open the planner or the address book. The main menu also shows a reminder section with the most recent upcoming events.




The planner portion allows the user to view and modify events happening at a certain date. The planner initially shows a list of dates that have events saved, and the user can click on a date to get a list of events that are scheduled for that day. Then the user can select a specific event and read, edit, save, and delete that event. The user can also create new events. Each event stores a description, date, time, notes, and whether the event has been completed or not.



The address book displays a list of the names of existing contacts. When a name is clicked, all the contact's information is displayed on the screen. From there, the user can read, edit, save, and delete the contact. A new contact can also be

created. The available information consists of a name, address, phone number, email address, birthday, and category.

All the information is saved to two text files storing the planner data and address book data. When the program is opened, the data is collected from these files.



Planner and Address Book

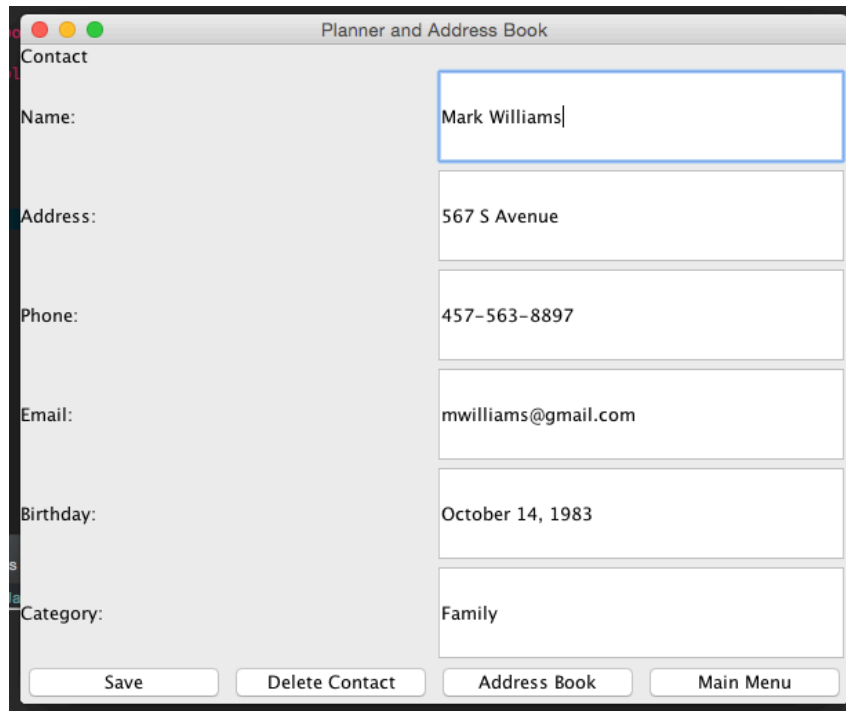
Address Book

Amy Johnson

Jesse Brown

Mark Williams

New Contact Main Menu



Planner and Address Book

Contact

Name: Mark Williams

Address: 567 S Avenue

Phone: 457-563-8897

Email: mwilliams@gmail.com

Birthday: October 14, 1983

Category: Family

Save Delete Contact Address Book Main Menu

b) Program Design and Implementation

1. The main component in the program is the PlannerUI, which contains a Planner and an AddressBook variable. PlannerUI is responsible for most of the UI components. It has methods that generate each screen, and uses the planner and address book to generate the information to be displayed. The Planner class has a TreeMap that maps each date to a set of events (of type Event). It is responsible for adding, deleting, searching, and editing each event. It also loads and saves the information to the planner text file. It also creates panels with event info for the PlannerUI to use. The Event class simply keeps track of the date, time, description, and notes. AddressBook works similarly to Planner, except it contains a TreeSet of Contacts. The Contact class keeps track of a contact's name, address, phone, etc.

2. $100 + 105 + 206 + 226 + 298 = \sim 935$ lines of code

c) Known Issues

1. The panels are missing scroll bars, which would make it hard to read the more entries are added. The layout overall is not very clean.

2. I wanted the address book to be able to display contacts by group. Similarly, I wanted the planner to have the option to display only incomplete events. I also didn't implement a way to add a photo to a contact.