CS 201 Group Project Clutterless Calendar

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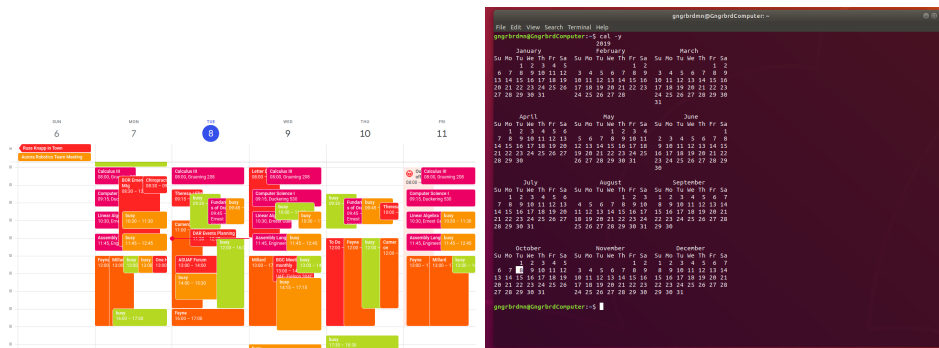
1 Design

1.1 Overall Design

Our design aims to be very simple providing an interface that is clear and easy to use without needing to sift through all of the useless clutter that sits on an ordinary calendar. It will be easy to understand the calendar and you will be able to search for dates to know the day of the week that certain days fall on as well as seen what events will be happening on that day.

1.2 Prior Art

There's the clutter of a google calendar, which is a challenge to read, but there's also the simplicity of the linux cal command which gives a very easy to read calendar, but it is useless because it tells you nothing of what's happening on those days. Our aim is to be a perfect middle ground of these by creating a calendar that is easy to read, but you can see what you're going to be doing on any given day.

1.3   Technical Design

The goal of this project will be to have a simple command line interface which will allow us to use the calendar from there and make the user interface as simple as a few commands. The Headers will separate the calendar into a few different functionalities that will each be implemented with separate options to the main function.

- By default the calendar will display the current week and the events.

- The -help option will be used to display a list of possible options and the syntax for using them.

- The -add option will allow the user to enter a new event which will be saved to the calendar.

- The -del option will be used to delete events from the calendar.

- The -list option will show a list of the upcoming events.

- The -y option will limit to the current year.

- The -m option will limit to the current month.

- The -w option will limit to the current week.

- The -d option will limit to the current day.

- The -set option will allow the user to set their own custom range for the dates displayed.

- The -date option will allow the user to search a specific date.

- The -weekday option will allow the user to find the weekday for a specific date.

1.4 Required Libraries

We will need to use the <iostream> library to take input and provide output, we will need the <string> library for the many strings required, and we'll need the <vector> library for in order to hold lists of strings that need to be used for things such as the days of the week and months of the year. We will of course also need the <ctime> library in order to find the current time.