# Assignment 4 Proposal

Members: Justin Hu (j62hu) and Xin Lin (x58lin)

Widget id: esf14

Widget name: Exam Scheduler

## Overview

The widget help UW students by organizing every student's specific exam information (subject catalogue, location, time, and date) in a chronological order in one simple interface. This eliminates the need to filter through hundreds of courses to find the few courses that you are taken and the need to constantly remembering or checking the time and date of exams.

Moreover, this widget is also design to help UW students to organize their exam studying schedule. The widget has a built-in to-do list where the user can add items like "Complete chapter 9 by Dec 4". The widget make use of the count down and colour to inform the user about the upcoming exams and their exam to-dos.

## Web Services

The widget proposed will make use of the following web services.

- Academic data for the user currently logged into the portal.
  The widget needs to obtain the list of courses details of the user logged into the portal. The widget will make use of https://cs349.student.cs.uwaterloo.ca:9410/api/v1/student/stdCourseDetails/UUUU where UUUU is the userid of the user logged in.

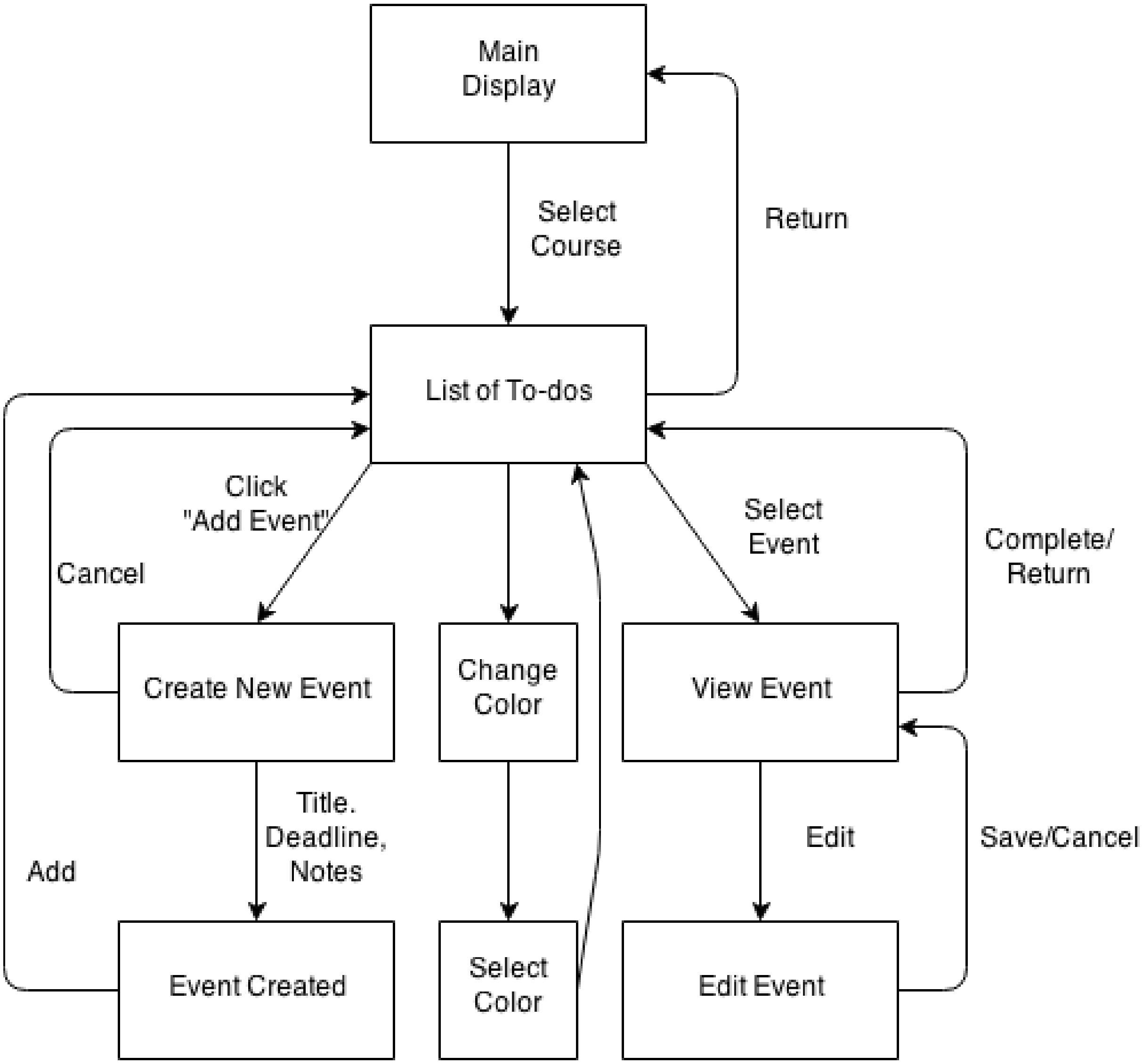
- Current term
  This widget needs to know the current term in order to filter out the courses taken by the user. The data will be provided by UW Open Data API V2. More specifically, https://api.uwaterloo.ca/v2/terms/list.json.

- Current term exam schedule of the courses taken by the user.
  To do this, the widget will make use of the data obtained from UW Open Data API V2. More specifically, https://api.uwaterloo.ca/v2/courses/{subject}/{catalog_number}/examschedule.json.

## External Libraries

With almost zero experience in JavaScript, we have not realized the usefulness of any other external libraries. If we ever come across the necessity of using external libraries in the future, we will update our proposal to reflect it.

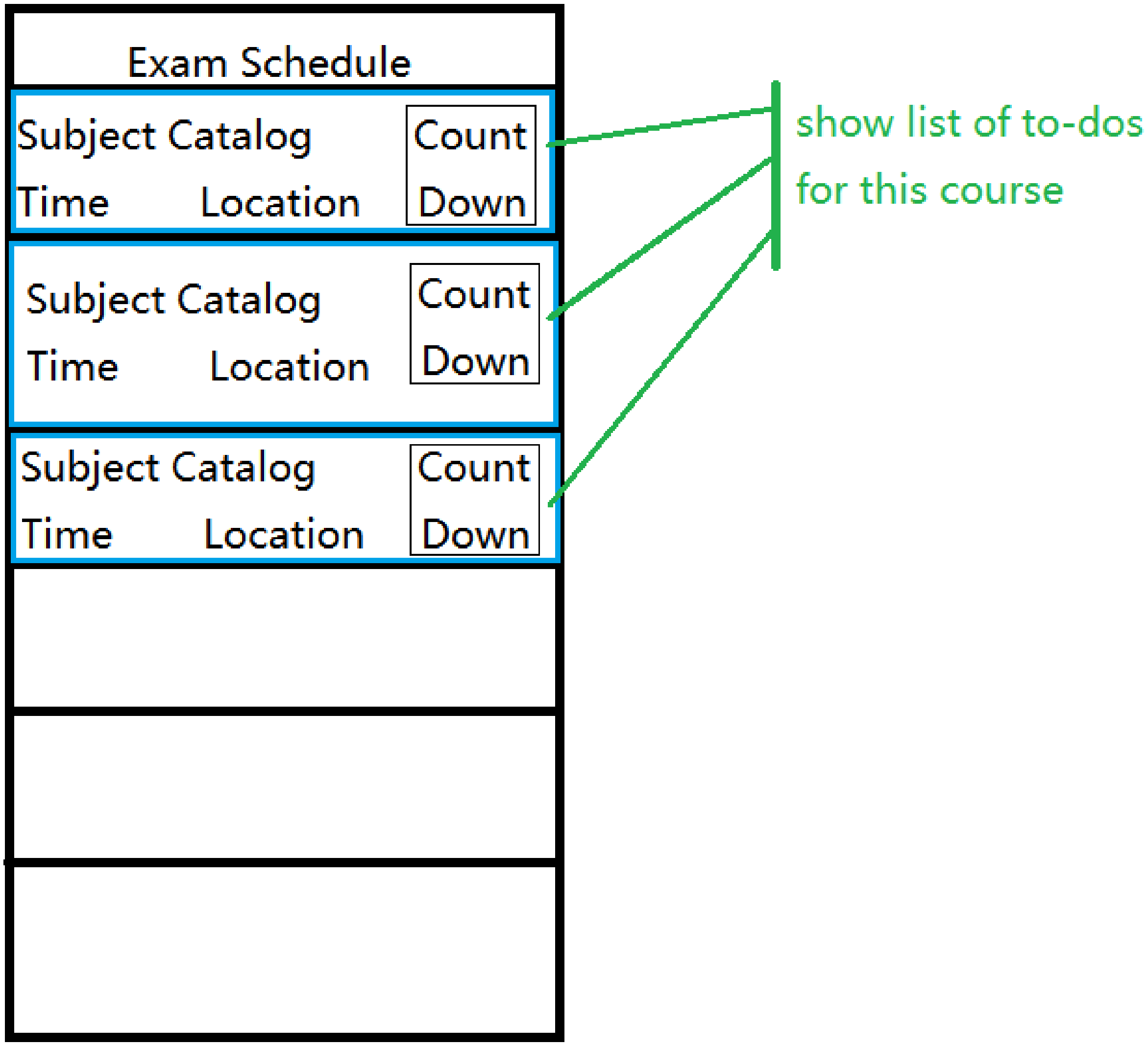
## Interaction Sequence Diagram



## Interface Schematics

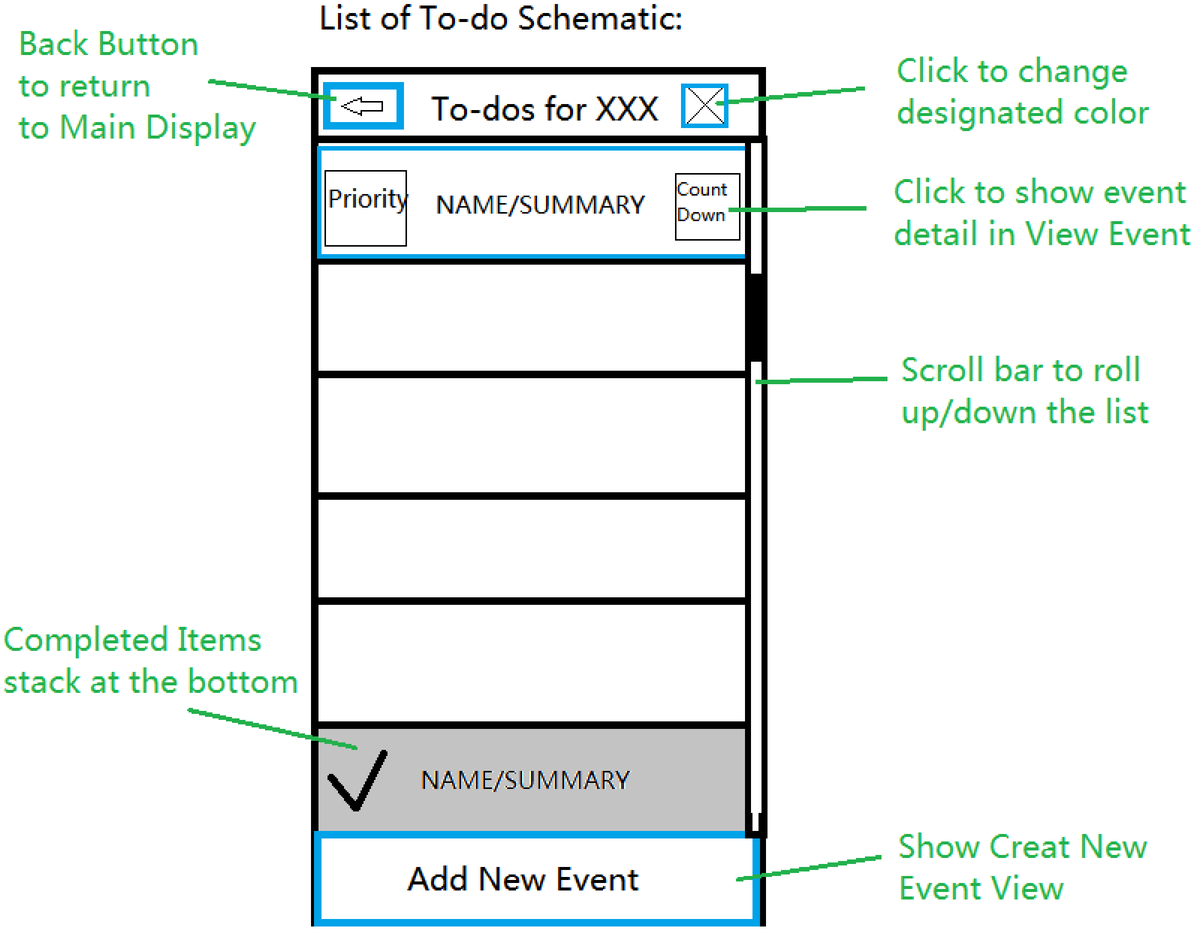
### Main Display:

Main Display Schematic:



## List of To-dos:

List of To-do Schematic:



Back Button to return to Main Display

Click to change designated color

Click to show event detail in View Event

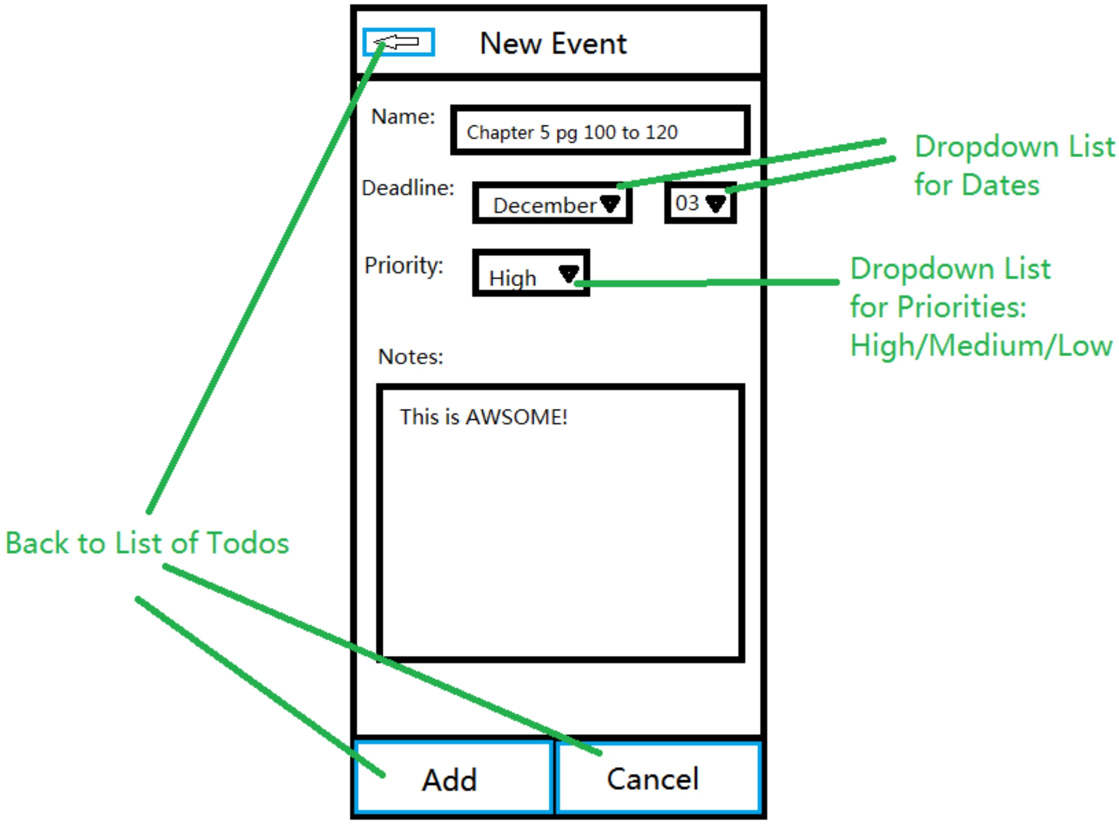
Scroll bar to roll up/down the list

Completed Items stack at the bottom

Show Creat New Event View

## Create New Event:

Create Event Schematic:



Name: Chapter 5 pg 100 to 120

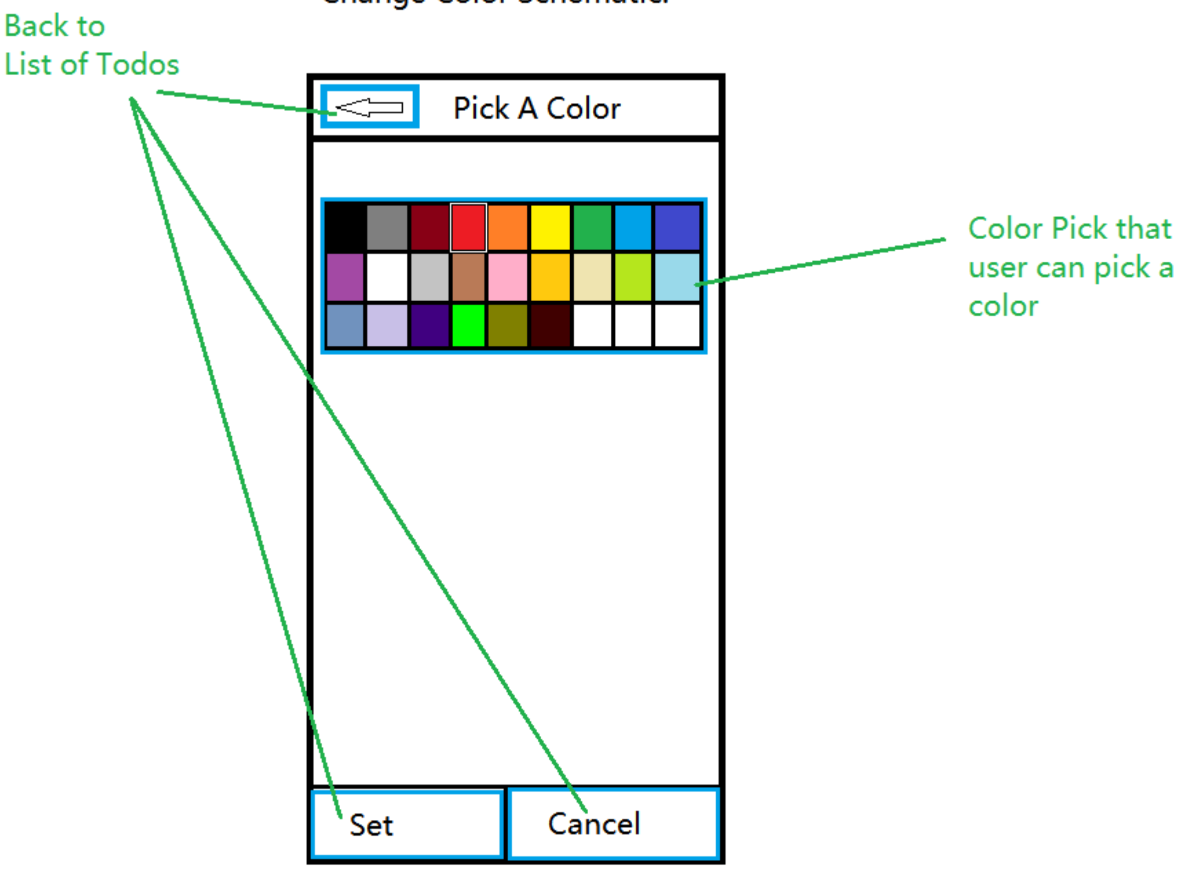
Deadline: December 03

Priority: High

Notes: This is AWSOME!

## Change Color:

Change Color Schematic:



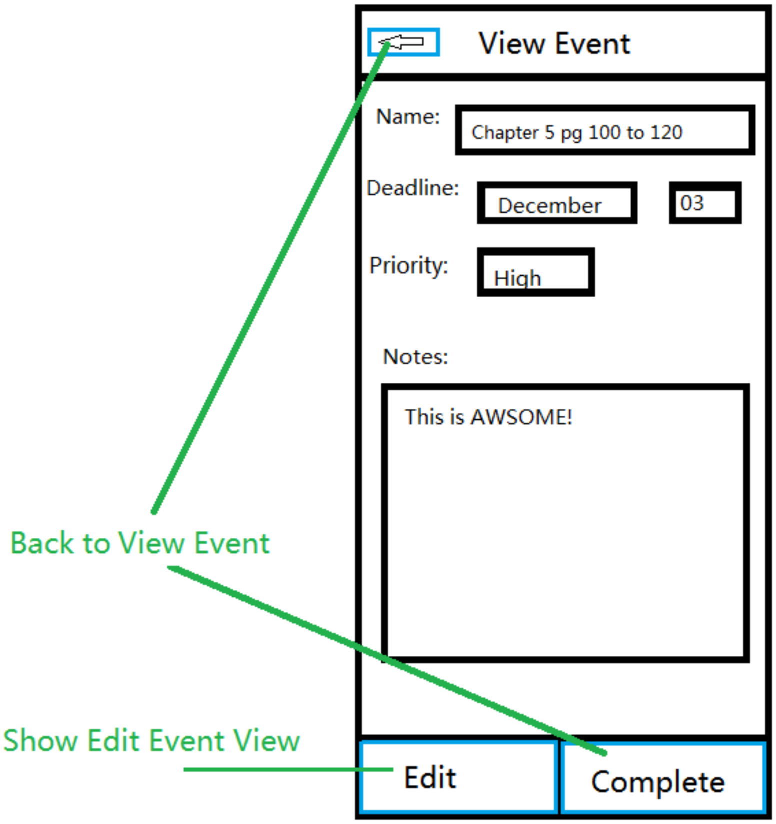
Back to
List of Todos

Color Pick that
user can pick a
color

## View Event:

View Event

Schematic:



Name: Chapter 5 pg 100 to 120

Deadline: December 03

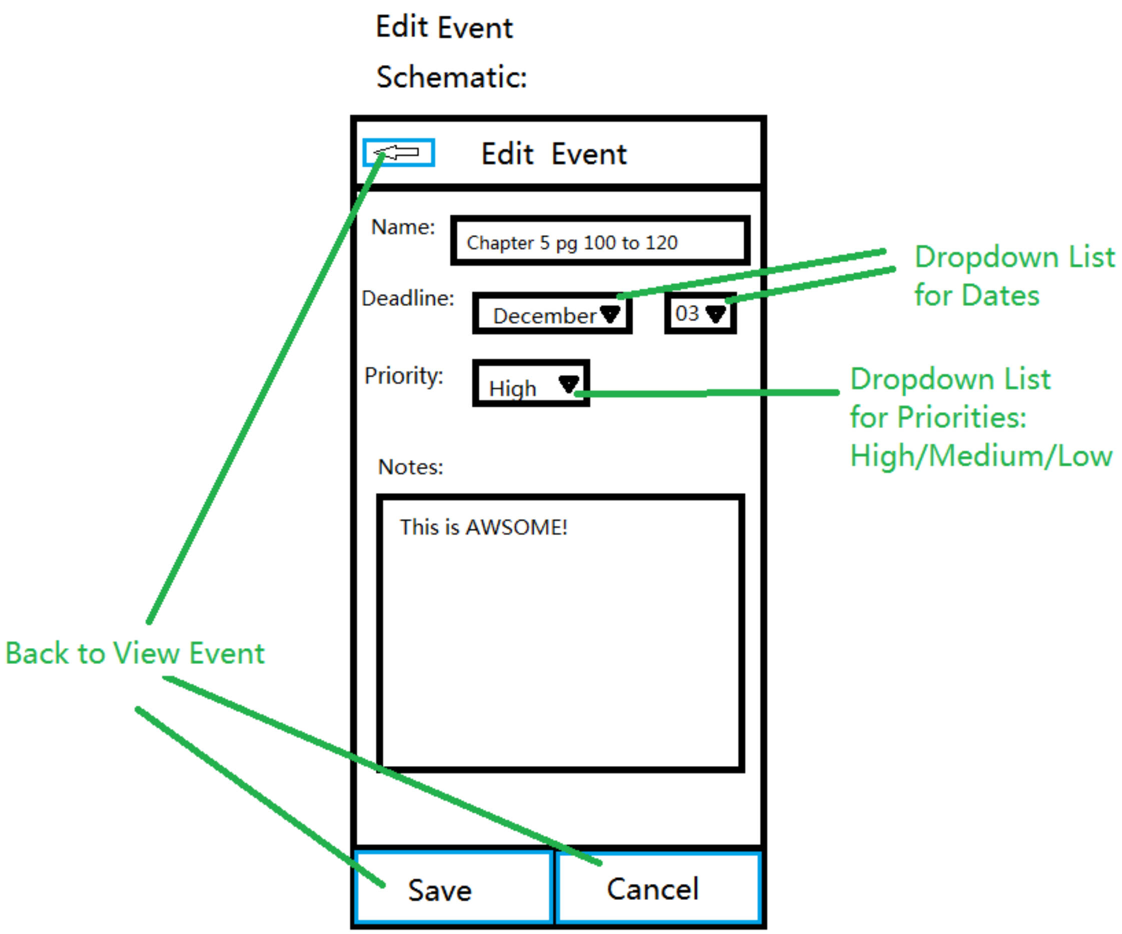
Priority: High

Notes: This is AWSOME!

Back to View Event

Show Edit Event View

## Edit Event:



# Challenges

Both of us have very limited experience using HTML, CSS and JavaScript. Thus, we will face more technical challenges than some of the other students. One of the challenges that we may face would be to interpreting and integrating data from the web services described above. Another technical challenge is to create HTML and CSS that exactly present what we want our interface to look like. However, these challenge can be overcome with getting more familiar with the language by reading sample code, tutorial, and trial and error and with help of Google. Another possible challenge is to have both members committed and complete their tasks on time. At last, there is a challenge of using subversion. We may have been modifying the same file which would result in a conflict. To help avoid potential merging issue of subversion, each member should have their own local copy just in case.