CS 151 Summer 2017 Project: Calendar

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We applied in our project a lot of concepts we learned in this course, which are summarized in the list below.

* Before we start programming we did requirements analysis, identifying relationships between classes.
* We conduct coding with clear document comments, we write comments for every class and method, this facilitate team work.
* Polymorphism and delegation are used a lot in our application.
* GUI programming, the package of java.awt and javax.swing
* Delegation and anonymous classes: a number of anonymous classes and delegation methods are used in our code
* Inheritance: some classes in our application extend JFrame and JPanel.
* Interface: we implement changeListener and comparable interfaces
* Patterns: Our design follows MVC pattern. We have multiple views, such as DayView, WeekView, MonthView and AgendaView.
* Strategy patterns: we add feature to load USA and Canada holidays by using strategy pattern.
* event handling mechanism

Although most the techniques we applied in our project are what we learned in the class, We also did some research to complete our project. We study the Package of java.time in SE 8, which is very handy in manipulating the date and time for the calendar application. The LocalDate and LocalTime classes are used in our application. We also have to look up some of the elements in the GUI programming.