

# SWDESPA Design Challenge 1

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**Due** Thursday by 11:59pm      **Points** 25      **Submitting** a file upload  
**Available** Jan 20 at 12am - Mar 10 at 11:59pm about 2 months

## Calendar App

You found out that your friend has an implementation of a Swing-based calendar that you urgently need for a project that you need to complete. You immediately download the code and run the downloaded code with your group mates and are excited to integrate the code because it’s exactly what you need.

>>> Download the Source files here [SWDESPA - DC1 - Source files.zip](#) <<<<<

Upon downloading the code and running it, you realize that the said calendar application contained a lot of flaws. Some of the flaws that were discovered were the following:

- There is no clear way of trying to add an event into the calendar
- When you try to add events, changing the month will make the events disappear
- It cannot be integrated because the program uses methods and classes which are native to it.

With the aforementioned limitations specified, perform the following tasks so that you will be able to implement the calendar application to your project (and future projects that will require such application):

1. Inspect and critique the code on how the calendar application was designed. Be able to identify areas of the design of the existing code that are poor and justify why it is so.
2. Provide a class diagram to illustrate the design of the calendar app for your project so that it is able to:
  1. Reuse the existing interface and code.
  2. Create different types of events using different colors on the calendar. You will decide how the user will add an event.
  3. Send notifications on the date of the event. Notification libraries for Facebook and SMS are provided. You CANNOT modify these classes.
  4. Import existing calendar events on a CSV-file format:

11/01/2014, All Saints' Day, green

11/02/2014, All Soul's Day, green

11/30/2014, Bonifacio Day, blue

12/25/2014, Christmas Day, red

01/01/2015, New Year's Day, red

1. Import existing calendar events in a pipe-delimited-file format:

Additional Class Day - Saturday Schedule | 12/08/2014 | green

Start Finals Week | 12/09/2014 | green

DLSU Christmas Party | 12/12/2014 | red

Start of Trimestral Break | 12/16/2014 | green

1. Implement your design.
2. Justify how you have improved the design that better interfaces with other applications and why your design is reusable.