

Coursework 3 - Implementation (15%)

First of all, this is an **individual** coursework. You need to design and implement a hotel booking GUI interface by using Java Swing.

What:

Design and implement a GUI interface to support visitors to book hotel rooms. You need to provide the following features:

1. **a map** from which user can check the location of the hotels and possibly select a hotel (a simple picture of map is sufficient, it is not necessary to call a real map API)
2. **a panel** that users can give necessary information for the booking, for instance, dates (check in/out), number of nights, number of rooms, number of people, etc.
3. **other necessary features**, for instance, “reset”

Please note that, you only need to design a single interface (one window). When you design the interface, please take the design principles into consideration, **which means that you need to consider carefully which UI component to be chosen to better fit the design principles**. A simple sketch-based interface can be found below.

Hand in:

- A **ZIP** file of the source code.
- A short report (max 300 words). In the report, you should: 1) **introduce your interface**, 2) **explain the design principles** that you apply in the design.

Use your **Student ID** and **your name** to name your **ZIP** file as well as the **PDF** report, for example, **1234567_Name_Coursework3_Report.pdf** and **1234567_Name_Coursework3_SourceCode.zip**. Please note that, any submissions with improper or incomplete file names certainly will affect your marks, so carefully name your files.

When:

- You will need to demonstrate your program to your TA **at the seminar session of May 28**. The TA will ask you a couple of questions related to your program.
- The report and the source code must be submitted no later than: **23:59 Friday May 28 (week 13)**.

Marking scheme:

1. Report (**30 points**)
2. The program – GUI interface design and implementation (**50 points**)
 - The map – **10points**
 - a panel that users can give necessary information for the booking – **30 points**
 - other necessary features, for instance, “reset” – **10 points**
3. Source code submission (**10 points**)
4. Demo and answer question (**10 points**)