

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.

Map

Name

Number

Button

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**)