**Group meeting.** (Estimation of duration: 1 day)

The project group’s first meeting. During this meeting, they will determine which dataset will be used to implement this project.

**Research for the Airbnb data.** (Estimation of duration: 1 day)

The project group will have a meeting and during this meeting, the dataset will be reviewed by the project group and the structure of the data in the dataset will be discovered and analyzed.

**Gathering the requirements.** (Estimation of duration: 1 day)

The project group will gather the requirements (user&software) of the project through this process.

**Define tasks**. (Estimation of duration: 1day)

The project will define all possible tasks during the implementation of the project.

**Allocating roles.** (Estimation of duration: 1 day)

After the tasks are defined, they will be assigned to each member of the group. There will be a group leader who monitors the progress of the project.

**Create WBS.** (Estimation of duration: 1 day)

The project group will come up with WBS (Work Breakdown Structure) steps which contain all the tasks defined in the previous step.

**Report back to client.** (Estimation of duration: 1 day)

The project group will set up a meeting with their client. During the meeting, the crew will explain their understanding of the project dataset and propose their implementation to the client in order to get client’s permission to implement this project.

**Design system structure.** (Estimation of duration: 2 day)

The structure of the program will be defined and listed out during this step. flowchart will be used to indicate the structure of the program. Notice that the structure may be varied during the implementation.

**Design user interface.** (Estimation of duration: 2 days)

A basic user interface will be implemented with description and may be varied during further implementation.

**Create Use-Case Diagram.** (Estimation of duration: 1 day)

A use case diagram will be generated to help understanding the use cases of the program. It contains most of the use case that people interact with the program.

**Develop the program.** (Estimation of duration: 4 weeks)

Implement the program which meets all functional requirements. Notice that the actual duration time may be varied due to unpredictable events.

**User Manual.** (Estimation of duration: 2 days)

A user manual will be created in order to help all potential user to use the program. User can simply follow the instructions in the manual to use the program.

**Testing plan.** (Estimation of duration: 2 day)

A testing plan will be made to test the program.

**Unit test.** (Estimation of duration: 1 day)

Follow the testing plan and provide unit test to the program. The results will be record for further use.

**Coverage report.** (Estimation of duration: 1 day)

In the coverage report, the results from unit test will be evaluated.

**Requirement acceptance test.** (Estimation of duration: 1 day)

Follow the testing plan and perform test to the program. The program should meet all requirements and ready to release.

**Executive summary.** (Estimation of duration: 1 day)

This summary will give client a quick overview of this whole project, including background information and the whole process of this project.