Booking System Documentation

By

Jedsada Luengaramsuk

Student ID: 2084749

Module Title: Programming Solutions for Enterprises

Module Code: IB96D0

Table of Contents

Dependencies

- Python3

- Pandas

- Regular expression

Run a Program

IDE

- Run main.py on your favourite IDE with booking.csv and rooms.csv in the same folder
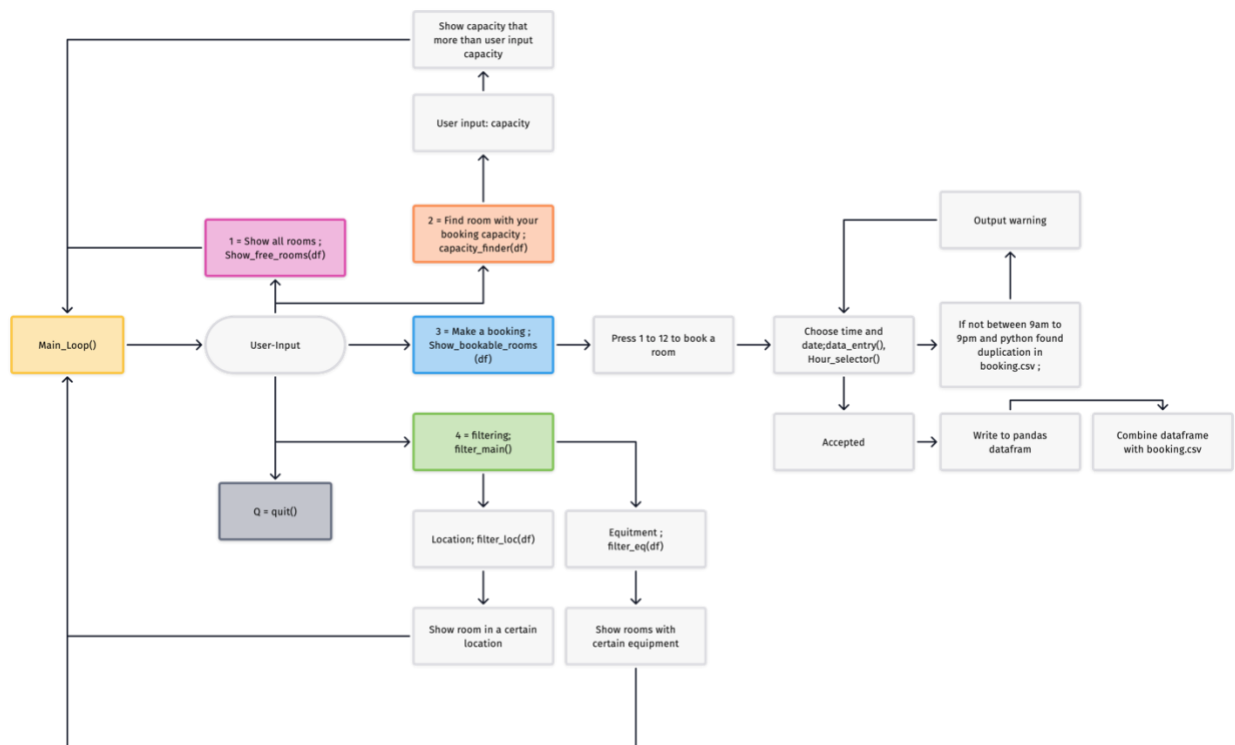
Command line

- Move working directory to the folder

- Run python3 main.py (booking.csv and room.csv) need to be in the same directory

- Run a program

```
(base) jedsadaluengaramsuk@MacBook-Pro-khxng-Jedsada Code % python3 main.py

        Welcome,
        Press 1 to see all rooms
        Press 2 to find rooms with your capacity
        Press 3 to make a booking
        Press 4 to for location and equtment filtering
        Press Q to quit

Enter Choice: []
```

Overview of the Program

- User can choose between 1-4

- 1 = show all rooms

- 2 = find rooms with your capacity

- 3 = make a booking

- 4 = filtering for location and equipment

- Q = quit

Functions

main_loop():

Enables user to enter a choice between one and four to determine which action to take. After

Every function, program will run back to this loop

Output:

> Welcome,

> Press 1 to see all rooms

> Press 2 to find rooms with your capacity

> Press 3 to make a booking

> Press 4 for location and equipment filtering

> Press Q to quit

Enter choice:

show_free_rooms(df):

- Show rooms which are currently free

- If Freeroom = True

- Print Freeroom

- Go back to main_loop()

capacity_finder(df):

- Show rooms which are currently free

- Print rooms base on given capacity

- Go back to main_loop()

show_bookable_rooms(df):

- Show all available rooms

- User press 1 to 12 to book available rooms

- Choose date

- Choose start-time and end-time

    o Between 9am to 9pm

    o Check booking.csv(replication)

- Write to pandas dataframe

- Combine pandas dataframe to booking.csv

data_entry():

hour_selector(start_time):

filter_main(df):

- Choose filtering by location (1) run Filter_loc(df)

- Choose filtering by equipment (2) run Filter_eq(df)

filter_loc(df):

- Choose location

- 1 for WBS > print WBS rooms

- 2 for Library > print library rooms

- 3 for Engineering > print Engineering rooms

- 4 for WMG > print WMG rooms

- After showing the room go back to main_loop()

filter_eq(df):

- Choose available equipment

- 1 for computer

- 2 for printer

  3 for projector