

# Read Me

## \* Function List

|   | Class        | Function  | Input  | Output  |
|---|--------------|---|--|---|
| 1 | DataAnalysis | (1) Revenue analysis<br>(2) Room occupancy analysis<br>(3) Channel analysis | Files:<br>(1) CUSTOMER_MST.csv<br>(2) HOTEL_MST.csv<br>(3) REGION_MST.csv<br>(4) RESERVATIONS.csv<br>(5) ROOM_MST.csv<br>(6) STAFF_MST.csv<br><br>Operation:<br>User's operation | (1)<br>REVENUE_ROOMTYPE.csv<br>(2) REVENUE_CHANNEL.csv<br>(3) ROOMTYPE.csv<br>(4) CHANNEL.csv |
| 2 | Reservation  | (1) Reservation   | Files:<br>(1) CUSTOMER_MST.csv<br>(2) HOTEL_MST.csv<br>(3) REGION_MST.csv<br>(4) ROOM_MST.csv<br>(5) STAFF_MST.csv<br><br>Operation:<br>User's operation                         | (1) RESERVATIONS.csv  |
|   |              |   |  |   |

## \* Description

1. Import the project into Eclipse workspace.
2. Start the program, and use the system under the instruction of console.
3. The system (Hotel Intelligence) mainly consists of two modules, analysis module and reservation module, according to the login role. User can log in to the system as manager or receptionist, which accesses to different modules.
4. After starting the system, reservation module has function of room booking, confirmation/cancellation, check-in/out. User of this module are receptionist. The input files includes information of customer, hotel, region, room and staff, receptionist's operation included as well. The system will record/output reservation information automatically.
5. Manager use the system to manage staff, information of revenue/occupancy/channel, and summarize respectively.
6. More importantly, taking reservation files as input to do analyzing, output statistics file: REVENUE\_ROOMTYPE.csv file shows hotel's revenue distribution in different room types, REVENUE\_CHANNEL.csv file is about in different channels, their occupancies of the total revenue, ROOMTYPE.csv file and CHANNEL.csv file is the occupancy percentages of room type or channel, respectively. All these files help to build strong sales strategy and make decisions.