

CRC Cards for Hotel Reservation System

Run	
Main()	Menu

Menu	
Initialise the program	L4 ReservationSystem Room
Run the program	Customer Supervisor Person ReservationSystem Reservation Cancellation Price Billing Hotel Data Analysis
Read which option is chosen by the user	
Make Reservation	Customer L4 Room Reservation ReservationSystem
Make Cancellation	Reservation Cancellation ReservationSystem

L4

Hotel	
Hotel Constructor	
Create CSV files	
Set the Prices	
Get the Prices	
Get price from CSV	Room
Get hotel rating	
Get hotel name	
Get hotel location	
Create rooms in the hotel	Room
Get room types in hotel	Room
Return data fields as a string	

L4	
Make a list of the hotels	
Add a Hotel	Hotel
Remove a Hotel	
Get L4 hotel list	
Writes the details of the specified hotel to a CSV file	Hotel

Room	
Room Constructor	
Set room type	
Get the room type	

Set the room occupancy	
Get the room occupancy	
Set whether breakfast is included	
Return whether breakfast is included	
Convert data fields to suitable form for CSV file	
Return all data fields as String	

Billing	
Calculate the price	Room Hotel

Price	
Set weekly prices for room	Room
Get the prices	

Reservation

Reservation	
Reservation constructor	Room
Get the reservation name	
Get the reservation ID	
Get the phone number	
Get the next reservation ID	
Set the check in date	
Set the check out date	
Get email address	

Get the rooms in the reservation	Room
Set if it's an advance purchased	
Check if the room is advance purchased	
Get the check in date	
Get the duration of the stay	
Get check out date	
Get the total cost of the stay	
Set the total cost of the stay	
Get the deposit paid	
Get all the rooms as a string	
Return all data fields as a String	

Cancellations	
Default constructor	
Cancellation constructor (9 data fields)	Room
Cancellation constructor (2 data fields)	Reservation ReservationSystem
Get the cancellation date	
Convert to CSV format	

ReservationSystem	
Write information to the CSV	Reservation
Read information from the CSV	Reservation Room Cancellation
Get reservation details from CSV	Reservation

	Room
Remove reservation from CSV	Reservation Cancellation
Check the CSV files	Hotel Reservation Cancellation

People

Person	
Constructor	
Make a reservation	Room Hotel Reservation ReservationSystem Billing
Set the name	
Set the phone number	
Set the email	
Get the phone number	
Get the name	
Get the email	
Return all data fields as string	

Supervisor	
Supervisor constructor	
Set the wages	
Get the wages	
Give a discount	Reservation ReservationSystem
Return all data fields as a string	

Customer	
Customer constructor	
Return all data fields as a string	

Analytics

DataAnalysis	
Get revenue for a fixed period of time	Reservation Hotel ReservationSystem
Get number of rooms occupied	Reservation Hotel ReservationSystem Room
Get most commonly booked type of room	Reservation Room Hotel ReservationSystem
Write data analytics to CSV	Hotel