



# BridgeLabz

Employability Delivered

Hotel  
Reservation  
System

- 1. Ability to work with GIT
  - 2. Ability to identify Classes and their attributes
  - 3. Ability to identify class behaviours
  - 4. Ability to write Logical Code
  - 5. Ability to use Java Stream
- 

## Outcome



# Hotel Reservation System

A hotel chain operating in Miami wishes to offer room reservation services over the internet. They have three hotels in Miami: Lakewood, Bridgewood and Ridgewood. Each hotel has separate weekday and weekend (Saturday and Sunday) rates. There are special rates for rewards customer as a part of loyalty program. Each hotel has a rating assigned to it.

Lakewood with a rating of 3 has weekday rates as 110\$ for regular customer and 80\$ for rewards customer. The weekend rates are 90 for regular customer and 80 for a rewards customer.

Bridgewood with a rating of 4 has weekday rates as 160\$ for regular customer and 110\$ for rewards customer. The weekend rates are 60 for regular customer and 50 for a rewards customer.

Ridgewood with a rating of 5 has weekday rates as 220\$ for regular customer and 100\$ for rewards customer. The weekend rates are 150 for regular customer and 40 for a rewards customer.

Can you write a program to help an online customer find the cheapest hotel?

# Hotel Reservation System



The input to the program will be a range of dates for a regular or rewards customer. The output should be the cheapest available hotel. In case of a tie, the hotel with highest rating should be returned.

INPUT FORMAT: <customer\_type>: <date1>, <date2>, <date3>

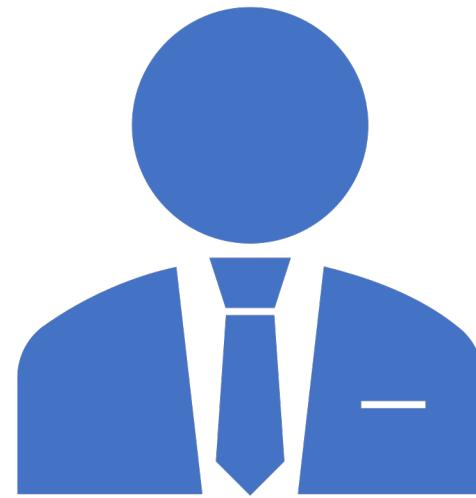
OUTPUT FORMAT: <name\_of\_the\_cheapest\_hotel>

INPUT 1: Regular: 16Mar2020(mon), 17Mar2020(tues),  
18Mar2020(wed)

OUTPUT 1: Lakewood

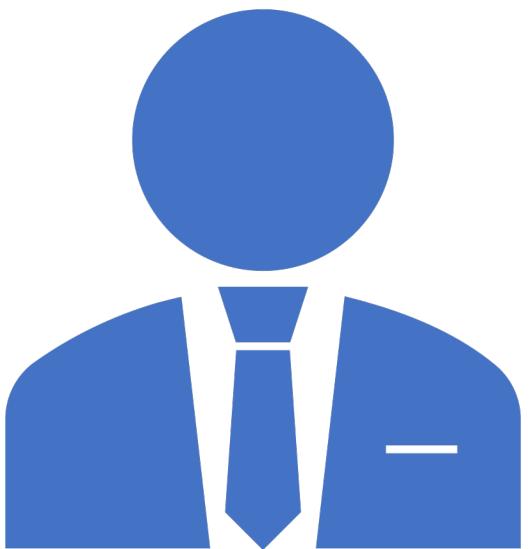
INPUT 2: Rewards: 26Mar2009(thur), 27Mar2009(fri),  
28Mar2009(sat)

OUTPUT 2: Ridgewood



**START**

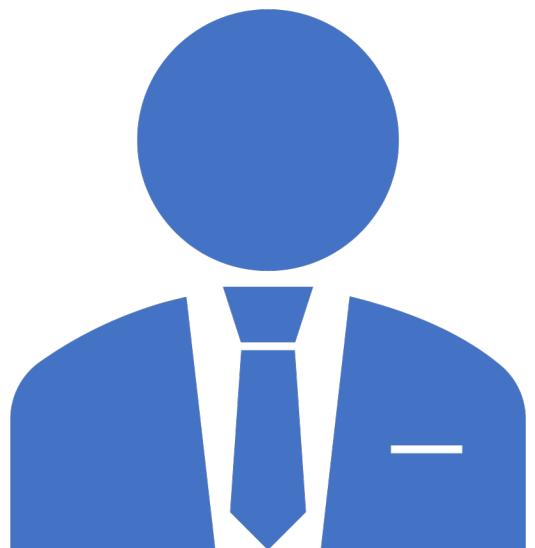
Start with Displaying  
Welcome to Hotel  
Reservation Program in  
HotelReservation class on  
Master Branch



**UC 1**

## Ability to add Hotel in a Hotel Reservation System with Name and rates for Regular Customer...

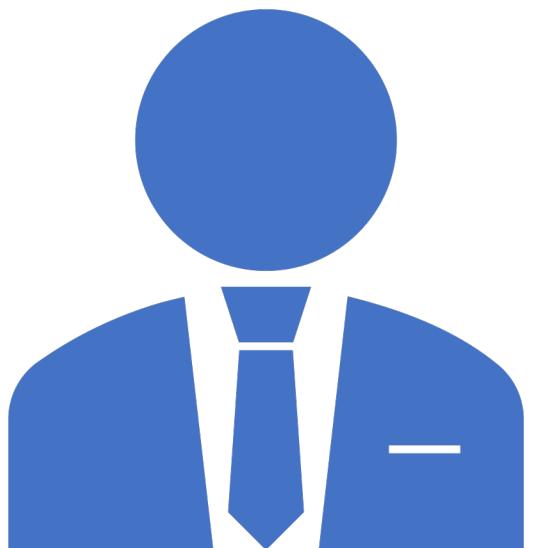
- Program is written using IDE like IntelliJ/Eclipse/VS Code
- Every UC is in a separate Git Branch and then merged with main
- Every UC should have a corresponding Test Case. Here Employees should be added to payroll system using a Test Case
- Naming Convention, Indentation, etc Code Hygiene will be checked during Review
- Git Check In Comments and Version History will be monitored



**UC 2**

**Ability to find the  
cheapest Hotel for a  
given Date Range**

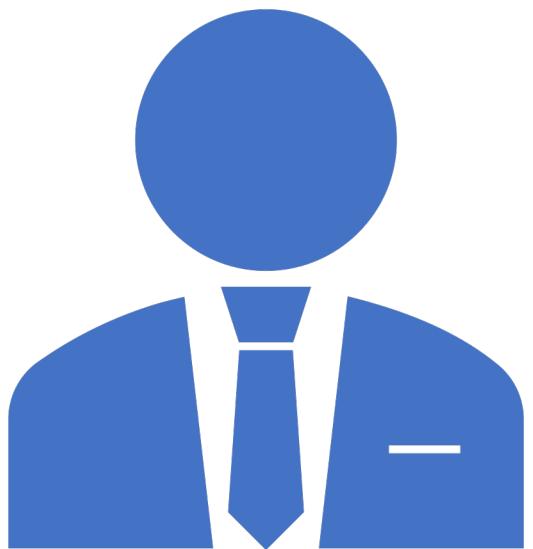
- I/P – 10Sep2020, 11Sep2020
- O/P – Lakewood, Total Rates: \$220



**UC 3**

## Ability to add weekday and weekend rates for each Hotel

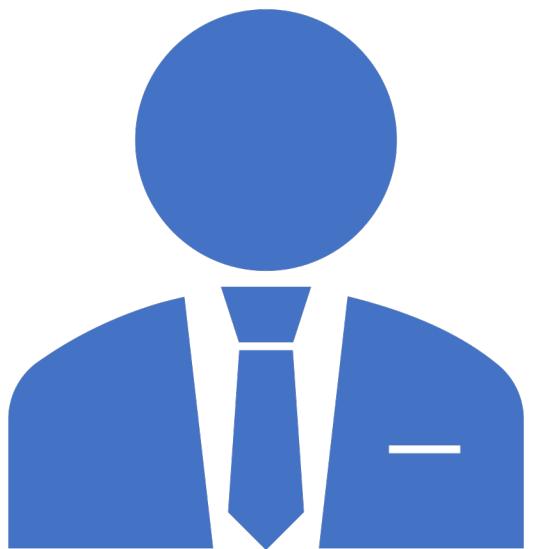
- For Lakewood Weekday & Weekend Rates per day is \$110 & \$90
- For Bridgewood \$150 and \$50
- For Ridgewood \$220 and \$150



**UC 4**

**Ability to find the cheapest  
Hotel for a given Date  
Range based on weekday  
and weekend**

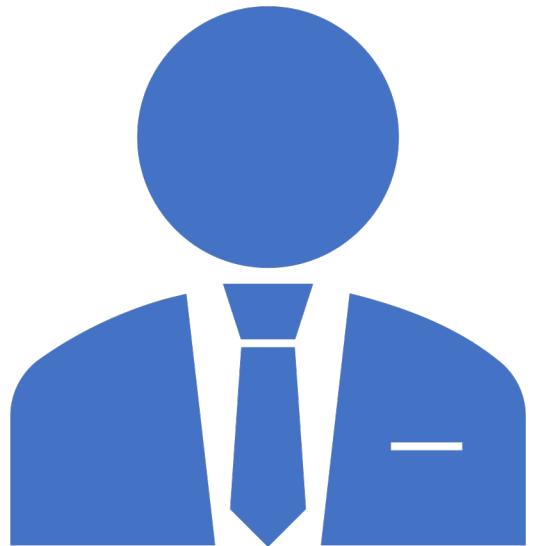
- I/P – 11Sep2020, 12Sep2020
- O/P – Lakewood and Bridgewood with Total Rates \$200



**UC 5**

## Ability to add ratings to each Hotel

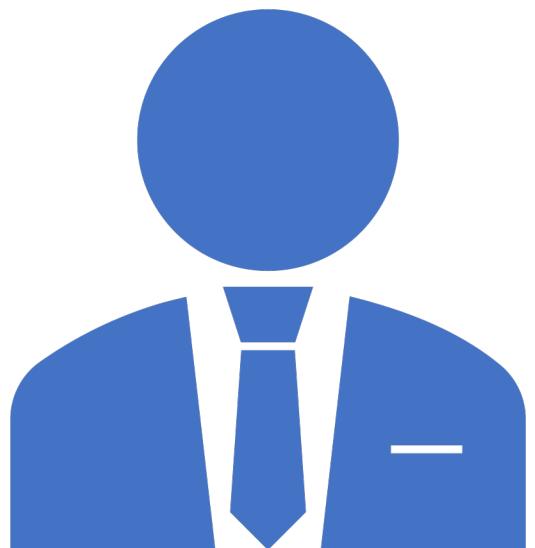
- Lakewood is 3, Bridgewood is 4 and Ridgewood is 5



**UC 6**

**Ability to find the cheapest  
best rated hotel Hotel for a  
given Date Range**

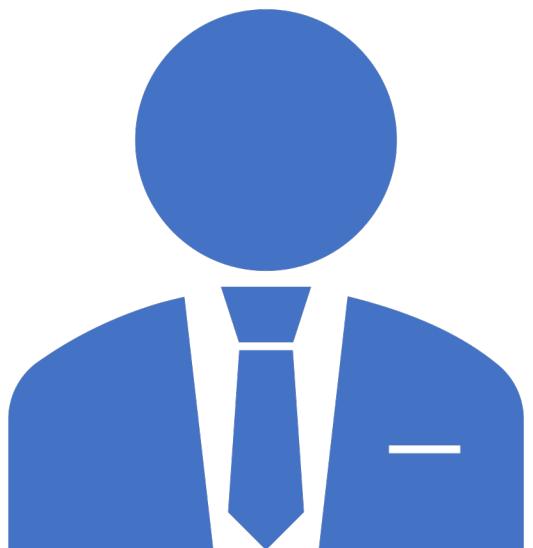
- I/P – 11Sep2020, 12Sep2020
- O/P – Bridgewood, Rating: 4 and Total Rates: \$200



**UC 7**

**Ability to find the  
Best Rated Hotel for  
a given Date Range**

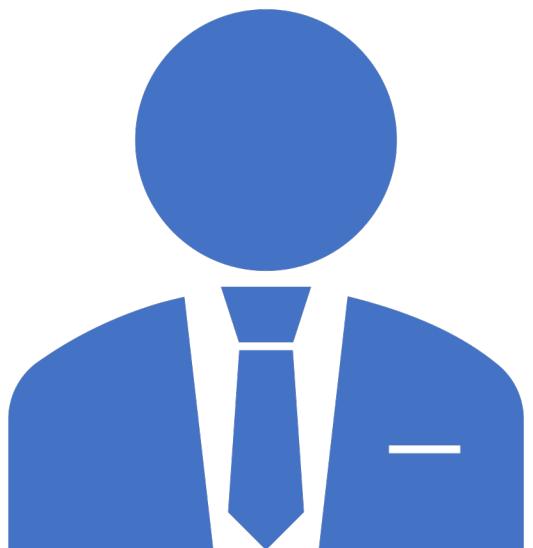
- I/P – 11Sep2020, 12Sep2020
- O/P – Ridgewood & Total Rates \$370



**UC 9**

## Ability to add special rates for reward customers as a part of Loyalty Program

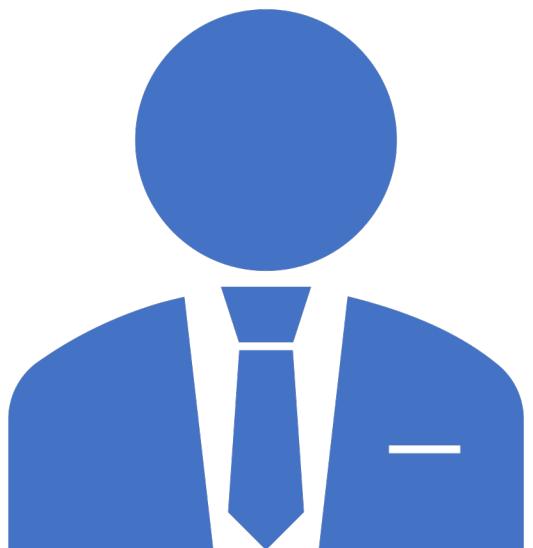
- For Lakewood for Reward Customer Weekday & Weekend Rates per day is \$80 & \$80
- For Bridgewood \$110 and \$50
- For Ridgewood \$100 and \$40



**UC 10**

**Ability to find the cheapest  
best rated hotel Hotel for a  
given Date Range for a  
Reward Customer**

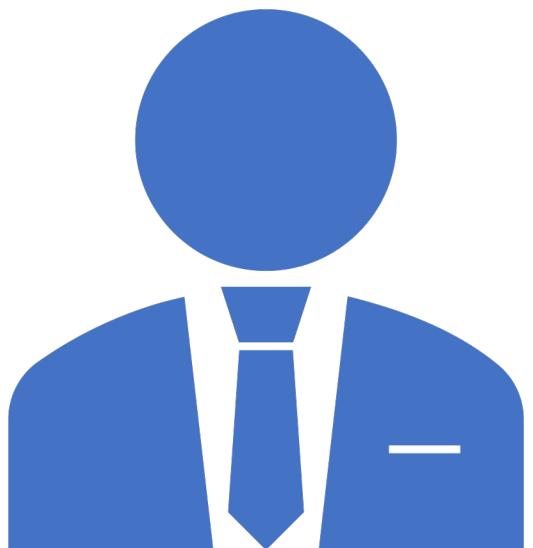
- Ability to validate the user inputs for Date Range and customer type
- Throw Exceptions for invalid entries
- I/P – 11Sep2020, 12Sep2020
- O/P – Ridgewood, Rating: 5 and Total Rates: \$140



**UC 11**

**Ability to find the cheapest best rated hotel Hotel for a given Date Range for a Reward Customer using Java Streams**

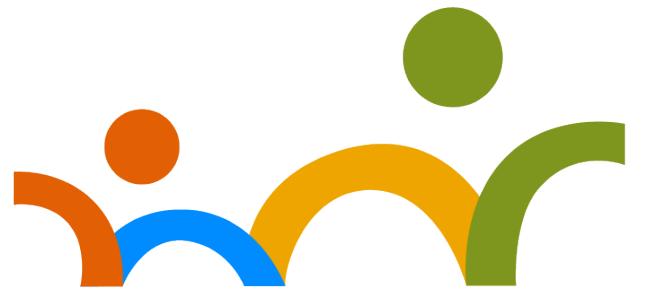
- Use Regex Validation, Exceptions and Java 8 Date Feature
- I/P – 11Sep2020, 12Sep2020
- O/P – Ridgewood, Rating: 5 and Total Rates: \$140



**UC 12**

**Ability to find the cheapest best rated hotel Hotel for a given Date Range for a Regular Customer using Java Streams**

- Use Regex Validation, Exceptions and Java 8 Date Feature
- I/P – 11Sep2020, 12Sep2020
- O/P – Bridgewood, Rating: 4 and Total Rates: \$200



# BridgeLabz

Employability Delivered

Thank  
You