

## UpGrad FSD Activity for Revision Session 2

You are recently hired by a company who rents cars. At present, the company has an office where everything happens offline. The management team has now decided to shift their operations online. You are tasked with creating a basic Java application which will replicate the offline procedures and help the company become digital.

**Create a Java program to implement this car rental application. The program should contain a menu-driven interface and the user should be able to perform the following operations:**

1. Create a new account
2. See the list of available cars (sorted by car id)
3. Search for a specific car (by model name)
4. Book a car
5. Check the booking details (by entering booking id)

**User details:** user\_id, user\_name, user\_phone, user\_email, user\_pincode

**Car details:** car\_id, company\_name, model\_name, car\_license\_number

**Booking details:** booking\_id, booking\_from, booking\_to, booked\_by (user\_id), car\_booked(car\_id)

### Note:

1. Please feel free to add/modify the data if needed.
2. You can add a 6<sup>th</sup> "exit" option in the menu if needed.

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### **Sample Data:**

1. **Users:**
  - a. 1, Taniya Mehta, 9999888877, [taniya@testmail.com](mailto:taniya@testmail.com), 550099
  - b. 2, Rishabh Makhija, 8888999977, [rishabh@testmail.com](mailto:rishabh@testmail.com), 550044
2. **Cars:**
  - a. 99, Hyundai, i20, MH00MH0001
  - b. 100, Ford, ecosport, KA00MH0002
  - c. 101, Kia, sonnet, AP00MH0003
3. **Bookings:**
  - a. 789, 08-08-2021, 09-08-2021, 1, 101
  - b. 790, 10-08-2021, 20-08-2021, 2, 99

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### **Sample Run:**

**Please choose an option:**

1. Create a new account
2. See the list of available cars
3. Search for a specific car
4. Book a car
5. Check the booking details

Your choice: 1

Please enter the following details:

Name: Taniya Mehta

Phone: 9999888877

Email: [taniya@testmail.com](mailto:taniya@testmail.com)

Pin code: 550099

Welcome, Taniya!

**Please choose an option:**

1. Create a new account
2. See the list of available cars
3. Search for a specific car
4. Book a car
5. Check the booking details

Your choice: 2

Available cars:

99, Hyundai, i20, MH00MH0001

100, Ford, ecosport, KA00MH0002

101, Kia, sonnet, AP00MH0003

**Please choose an option:**

1. Create a new account
2. See the list of available cars
3. Search for a specific car

4. Book a car

5. Check the booking details

Your choice: 3

Enter the model you are looking for: i20

Car found: 99, Hyundai, i20, MH00MH0001

**Please choose an option:**

1. Create a new account

2. See the list of available cars

3. Search for a specific car

4. Book a car

5. Check the booking details

Your choice: 4

Enter the car id you want to book: 99

Enter your user id: 2

Enter the start date: 08-08-2021

Enter the end date: 09-08-2021

Booking confirmed! Your booking id is: 790

**Please choose an option:**

1. Create a new account

2. See the list of available cars

3. Search for a specific car

4. Book a car

5. Check the booking details

Your choice: 5

Enter the booking id: 790

Booking details: 790, 10-08-2021, 20-08-2021, 2, 99