

USER MANUAL

Car Rental System



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Table of Contents

• For Admins:	2
a. Login.....	2
b. Admin Menu:	3
c. Add New Car:	4
d. Update Car:	5
e. Manage Rental Bookings:	6
f. Log out:	8
• Users:.....	9
a. Register:	9
b. Login:.....	10
c. View Available Cars:	11
d. View your bookings:.....	12
e. Book a car:	13
f. Cancel Booking:.....	14
g. Search for Cars:.....	15
h. Log out.....	17

- For Admins:

- a. Login

```
***** Welcome to Easy Car Rental *****
-----
1. Login
2. Register
3. Exit
-----
Enter your choice:
```

When you first open the application, you will see the initial menu which will welcome you to the Easy Car Rental System.

Here you have 3 options, but you will not have to Register as your credentials are already included in the system so will only have to select the option 1 by entering 1:

```
***** Welcome to Easy Car Rental *****
-----
1. Login
2. Register
3. Exit
-----
Enter your choice: 1
```

Then you will be directed to the Login Interface, and you will login with the credentials provided to you:

```
***** WELCOME TO THE LOGIN PAGE *****
Enter your username: admin
Enter your password: *****
```

After you enter the credentials, press enter and then you will be taken to the Admin Menu.

b. Admin Menu:

```
-----Admin Menu-----  
+-----+  
| 1. Add New Car      |  
| 2. Update Car       |  
| 3. Manage Rental Bookings |  
| 4. Log out          |  
+-----+  
Enter your choice:
```

In the Admin menu you will have 4 options:

1. Add New Car
2. Update Car
3. Manage Rental Bookings
4. Log Out

c. Add New Car:

After you select the Add New Car option from the Admin Menu by entering 1, you will be seeing the Add New Car Interface where you will enter the information of the car you want to Add to the System:

```
+-----+
|  Add New Car  |
+-----+
Enter Car Make:Mitsubishi
Enter Car Model: Outlander
Enter Car Year: 2021
Enter Mileage: 24
Is the car available ( 1 for Yes, 0 for No): 1
Enter the Minimum Rent Period (days): 90
Enter Maximum Rent Period (days): 180
+-----+
```

You will have to enter the details of the car like:

- Car Make
- Car Model
- Car Year
- Mileage
- Availability
- Minimum Rent Period
- Maximum Rent Period

After you have entered all the information successfully you will be prompted a success message and then directed to the Admin Menu again:

```
+-----+
New car added successfully.
+-----+
| 1. Add New Car      |
| 2. Update Car       |
| 3. Manage Rental Bookings |
| 4. Log out          |
+-----+
Enter your choice:
```

d. Update Car:

Then, you can choose other options as well. Let's see for update car option by entering 2.

```
+-----+
|  List of Cars for Update  |
+-----+
CarID: 1 | Make: Mitsubishi | Model: Outlander
CarID: 2 | Make: Toyota | Model: Corolla
CarID: 3 | Make: Honda | Model: Civic
CarID: 4 | Make: Ford | Model: Focus
CarID: 5 | Make: Chevrolet | Model: Malibu
CarID: 6 | Make: BMW | Model: X5
CarID: 7 | Make: Mercedes | Model: C-Class
CarID: 8 | Make: Audi | Model: A4
CarID: 9 | Make: Nissan | Model: Altima
CarID: 10 | Make: Hyundai | Model: Elantra
CarID: 11 | Make: Kia | Model: Optima
+-----+
Enter the ID of the car you want to update:
```

Then you get the list of Cars with their ID, Make and Model by looking at which you can enter the ID of the car you want to update.

```
+-----+
Enter the ID of the car you want to update: 1
Enter new Car Make (leave blank to keep current):
Enter new Car Model (leave blank to keep current):
Enter new Car Year (leave blank to keep current): 2023
Enter new Mileage (leave blank to keep current): 40
Is the car available (1 for Yes, 0 for No, leave blank to keep current): 1
Enter the Minimum Rent Period (days, leave blank to keep current): 10
Enter Maximum Rent Period (days, leave blank to keep current):
Car details updated successfully.
+-----+
```

After you enter the Car ID you get prompt to update each detail of the Car you can either enter a new value which you want to update or you can leave the field empty to keep the detail as it is.

e. Manage Rental Bookings:

When you choose manage rental booking from the admin menu you will be directed to the manger booking interface:

```
+-----+
|  Manage Rental Bookings  |
+-----+
| 1: View All Bookings    |
| 2: Approve Booking      |
| 3: Reject Booking       |
+-----+
Enter Your Choice:
```

You can choose between various options:

- View all bookings
- Approve booking
- Reject booking

When you select to view all bookings all the details of the bookings will be displayed.

```
Enter Your Choice: 1
BookingID = 1
CustomerID = 1
CarID = 1
StartDate = 2022-01-01
EndDate = 2022-01-07
TotalCost = 200.0
Status = Pending

BookingID = 2
CustomerID = 2
CarID = 2
StartDate = 2022-01-02
EndDate = 2022-01-08
TotalCost = 220.0
Status = Pending

BookingID = 3
CustomerID = 3
CarID = 3
StartDate = 2022-01-03
EndDate = 2022-01-09
TotalCost = 240.0
Status = Pending
```

When you choose to approve booking from the manage rental booking menu you will be able to view only those bookings that are pending and can enter the ID of the booking you want to approve.

```
BookingID: 90
Customer: admin2
Car: Kia Optima
Period: 2022-01-10 to 2022-01-16
Total Cost: 380
-----
Enter Booking ID to approve: 90
Booking approved successfully.
```

Once you enter the ID of the booking you will get a success approve message.

Similarly, when you choose the option to reject a booking from the manage rental booking menu:

```
-----
BookingID: 88
Customer: user2
Car: Nissan Altima
Period: 2022-01-08 to 2022-01-14
Total Cost: 340
-----
BookingID: 89
Customer: admin1
Car: Hyundai Elantra
Period: 2022-01-09 to 2022-01-15
Total Cost: 360
-----
Enter Booking ID to reject:
```

You will get the list of all the pending bookings and a field to enter the ID of the booking you want to reject.

```
-----
Enter Booking ID to reject: 89
Booking rejected successfully.
```

After entering the ID you will get a successful rejection message.

f. Log out:

To log out to the main menu enter 4 in the Admin Menu:

```
+-----+
| 1. Add New Car      |
| 2. Update Car       |
| 3. Manage Rental Bookings |
| 4. Log out          |
+-----+
Enter your choice: 4
Logging out
***** Welcome to Easy Car Rental *****
-----
1. Login
2. Register
3. Exit
-----
```

And then you can choose option 3 of exit in the Main menu to exit the application.

- Users:

- a. Register:

When you first open the application you get 3 options first to register choose 2.

```
***** Welcome to Easy Car Rental *****  
-----  
1. Login  
2. Register  
3. Exit  
-----  
Enter your choice:
```

Then you will have the register page where you can include your username and password.

```
***** WELCOME TO THE REGISTER PAGE *****  
Enter your username: Mallika  
Enter your password: *****
```

After you have entered your credentials, you will get a success message.

b. Login:

```
***** REGISTRATION SUCCESSFUL *****  
Thank you for registering, Mallika!  
You can now log in using your credentials.
```

After registration you can login by selecting the login option from the main menu and then you will be directed to the login page:

```
***** WELCOME TO THE LOGIN PAGE *****  
Enter your username: Mallika  
Enter your password: *****
```

Enter your credentials and then you will see the User's menu:

```
=====
                        User Menu
=====
1. View Available Cars
2. View Bookings
3. Book a Car
4. Cancel Booking
5. Search for Cars
6. Log Out
Enter your choice:
```

Here, you have multiple menus to:

- View Available Cars
- View Bookings
- Book a Car
- Cancel Booking
- Search For cars
- Log out

c. View Available Cars:

Choosing option one to view available cars:

```
Enter your choice: 1
```

```
CarID : 1
```

```
Make : Toyota
```

```
Model : Corolla
```

```
IsAvailable : 1
```

```
-----
```

```
CarID : 2
```

```
Make : Honda
```

```
Model : Civic
```

```
IsAvailable : 1
```

```
-----
```

```
CarID : 3
```

```
Make : Ford
```

```
Model : Focus
```

```
IsAvailable : 1
```

```
-----
```

```
CarID : 4
```

```
Make : Chevrolet
```

Then you will view all the cars that are available.

d. View your bookings:

Choosing second option to view your bookings:

```
=====
                        View User Bookings
=====
Select booking type:
1. All Bookings
2. Pending Bookings
3. Confirmed Bookings
4. Rejected Bookings
5. Cancelled Bookings
Enter your choice:
```

You have various options here as well:

- All bookings
- Pending Bookings
- Confirmed Bookings
- Rejected Bookings
- Cancelled Bookings

When you enter a booking option and if no booking is found then you will get a no booking message:

```
Enter your choice: 1
-----User-Booking-----
No bookings found!
=====
```

Whereas when you have bookings you will receive the data of your booking:

```
Enter your choice: 1
-----User-Booking-----
BookingID: 1
Car: Toyota Corolla 2022
StartDate: 2024-04-04
EndDate: 2024-04-14
Status: Pending
=====
```

You will receive similar interface for all types of booking when you check.

e. Book a car:

When you select the option to book a car from the user menu you will be displayed all the car with there details and then you can enter the Car ID to book a car.

```
CarID : 18
Make : Nissan
Model : Altima
IsAvailable : 1
-----
CarID : 19
Make : Hyundai
Model : Elantra
IsAvailable : 1
-----
CarID : 20
Make : Kia
Model : Optima
IsAvailable : 1
=====
Enter the CarID you want to book: |
```

Then when you enter the Car ID of the car you want to book, you will be taken to validate car interface where you will enter your booking details:

```
=====
Enter the CarID you want to book: 3
=====
                Validate CarID
=====
Enter the start year (2024-2030): 2024
Enter the start month (1-12): 1
Enter the start day (1-31): 26
Enter the end year (2024-2030): 2024
Enter the end month (1-12): 2
Enter the end day (1-31): 28
-----
Booking successful. Your request is pending approval.
-----
Total Days: 33
-----
Total Cost: 1650
=====
```

You will enter the valid start date and end date of your booking and then you will get a success message with the total days of your booking and the cost of your booking accordingly. If you will enter invalid data to the field then you will be respectively asked for the valid data.

f. Cancel Booking:

If you change your mind after booking and want to cancel your booking you can do so by choosing the cancel booking option from your user menu.

```
Enter your choice: 4
-----User-Booking-----
BookingID: 1
Car: Toyota Corolla 2022
StartDate: 2024-04-04
EndDate: 2024-04-14
Status: Pending
-----
BookingID: 2
Car: Ford Focus 2022
StartDate: 2024-01-26
EndDate: 2024-02-28
Status: Pending
-----
Enter the BookingID you want to cancel:
```

You will get a view of all the Cars you have booked and then you can enter the ID of the booking you want to cancel.

```
-----
Enter the BookingID you want to cancel: 2
Booking cancelled successfully.
=====
```

You will get a success message after you have entered the ID.

g. Search for Cars:

You can search for Cars by entering the option of Search for cars from the user menu:

```
Enter your choice: 5
+-----+
|           Search Cars           |
+-----+
| Enter make (or leave empty):    |
| Honda                          |
| Enter model (or leave empty):   |
|                                 |
| Search for available cars only? (1 for Yes, |
| 0 for No):                      |
| 1                                |
+-----+
+-----+-----+-----+-----+-----+-----+
| Index | CarID | Make   | Model | Year | Mileage | Availability |
+-----+-----+-----+-----+-----+-----+-----+
| 0      | 2     | Honda | Civic | 2021 | 12000   | Yes          |
| 1      | 12    | Honda | Civic | 2021 | 12000   | Yes          |
+-----+-----+-----+-----+-----+-----+
| Do you want to book a car? (1 for Yes, |
| 0 for No):                             |
|                                         |
```

Then you can search for the car by entering or leaving empty the Make and Model for your desired car and the availability.

Then you will receive the list of cars with their information. And then you can decide to book the car as well.

```
+-----+-----+-----+-----+-----+-----+
| Do you want to book a car? (1 for Yes, |
| 0 for No):                             |
| 1                                        |
| Enter the index of the car you want to book: |
| 1                                        |
+-----+-----+-----+-----+-----+-----+
|                                     |
|           Book a Car               |
|                                     |
+-----+-----+-----+-----+-----+-----+
| Selected Car Details:              |
| CarID: 12                          |
| Make: Honda                        |
| Model: Civic                       |
| Year: 2021                         |
| Mileage: 12000                     |
| Availability: Yes                   |
|                                     |
| Enter the start year (2024-2030):  |
```


Once you enter 1 to continue booking the car from the search result you will get the full detail and then enter the dates for your booking.

```
Enter the start year (2024-2030): 2024
Enter the start month (1-12): 6
Enter the start day (1-31): 17
Enter the end year (2024-2030): 8
Enter the end year (2024-2030): 16
Enter the end year (2024-2030): 2024
Enter the end month (1-12): 8
Enter the end day (1-31): 8
-----
Booking successful. Your request is pending approval.
-----
Total Days: 52
-----
Total Cost: 2600
-----
```

After you enter the proper valid start date and end date with year, month and day you will get a success message with the total days and total cost.

h. Log out

To log out from the User menu chose the log out option and then chose the Exit function to exit the application.

```
=====
                        User Menu
=====
1. View Available Cars
2. View Bookings
3. Book a Car
4. Cancel Booking
5. Search for Cars
6. Log Out
Enter your choice: 6
Loggin out....
***** Welcome to Easy Car Rental *****
-----
1. Login
2. Register
3. Exit
-----
Enter your choice: 3
Exiting....
```

Thank you.