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# Car Rental Agency

DB Final Project



## Features

- A login system, including registration (for customers), signing in, and signing out.
- A logged in customer can view and search through the available cars using some (or all) of the specification of their desired car, including the car model, rental price, model, etc.
- On finding an appropriate car, a logged in customer can enter the details of the reservation to have the car reserved for the specified duration.
- A logged in customer can check the reservations they made and whether the reservations are paid for or not.
- A logged in customer can pay any unpaid fees (no payment processing).
- A logged in administrator can view the entire catalog of cars (whether available or out of service) and make adjustments to a car's information.
- A logged in administrator can search through reservations using some (or all) of the details of a reservation, such as the customer's name, the time of the reservation, etc.
- Similarly, a logged in administrator can search through cars and customers.
- The rental agency has multiple locations all over the world, each location is associated with a number of branches. Each car is associated with a certain location, and the agency offers customers the flexibility to pick up the car from any branch in that location and return the car to any branch in the location. An administrator can add new locations and branches to the system.

## Header and menu

🚗 CAR RENTAL WEBSITE



🚗 CAR RENTAL WEBSITE



### MENU

Home

Car catalog

Sign Out

Register car

Admin Dashboard

Cars Information

Customers Information

Reservations

- Shared across all pages.
- Shows a gallery of car-related photos.
- The foldable hamburger menu shows the pages that the user can visit, based on the type of user (visitor, admin, or customer). For example, the second screenshot is taken while logged in as admin, so it shows pages that are inaccessible to customers.

## Admin related pages

### Car registration



#### REGISTER

Plate Id	Model	Year	Color
Automatic/Manual	Tank Capacity	Horse Power	Price
Location	Image: Choose File No file chosen	REGISTER	

- Adds a new car to the database.
- Shows an error message if the registration is erroneous.
- The admin is supposed to fill out all the fields, and this is enforced by the page.
- Upon correct submission, a new car is added to the database with the specified details.

## Car catalog (car search)

**CARS**

Model

Year

Min. Price

Max. Price

Color


Min. Horse Power

Min. Tank Capacity


Location

Automatic/Manual


SEARCH




**KIA RIO 2018**  
Price: 100 per day




**SEAT LEON 2017**  
Price: 170 per day




**BMW 3-SERIES G20 2020**  
Price: 200 per day



**FIAT TIPO 2018**



**SKODA OCTAVIA 2017**



**RENAULT MEGANE 2020**

- An admin can search for a car by some or all specs.
- Hovering will show more details about the car.
- Clicking on a car will send the admin to a page to edit the car's details.


## Car editing

**EDIT CAR** ☰

Seat Leon 2017 red Manual

Tank Capacity 50 Power 140 Price 170

Russia **EDIT**



- All the fields are prepopulated with the values in the database.
- Changing a field's value and submitting will change it in the database.
- If the submission is erroneous, a message is shown.

Report Pages (car information, customer information, reservation information)

SEARCH CUSTOMERS INFORMATION

First Name

Last Name

Phone No.

Email

Male/Female

Min Birth Date

Max Birth Date

SEARCH

User

SSN	First Name	Last Name	Phone	Email	Sex	Birth Date
15176891141235	Fady	Sameh	01233547384	fady@gmail.com	M	2000-04-12
29673262853274	Sandra	Adel	01248563857	sandra@gmail.com	F	1996-11-03
46634237494769	Amr	Mohamed	01257673694	amr@gmail.com	M	2000-05-15

## SEARCH

Plate ID  Model  Year  Min. Price  Max. Price  Color  Min. Horse Power  Min. Tank Capacity

Location  Automatic/Manual  Current Status for date

## Car

Plate id	Model	Year	Status	Price	Color	Power	Automatic/Manual	Tank Capacity	Location
A3SKD	Kia Rio	2018	Available	100	white	140	F	50	France
C9ASD	Nissan Sunny	2017	Unavailable	250	grey	140	F	50	Egypt
D7RKU	Hyundai i20	2019	Unavailable	280	blue	140	F	50	France
G4SLT	Seat Leon	2017	Available	170	red	140	F	50	Russia
H6HYU	BMW 3-Series G20	2020	Available	200	blue	140	F	50	France
L6SDK	Mercedes s6	2019	Unavailable	150	red	140	F	50	England

## SEARCH IN RESERVATIONS

Plate ID  Model  Year  Min. Price  Max. Price  Color  Min. Horse Power  Min. Tank Capacity

Location  Automatic/Manual  First Name  Last Name  Phone No.  Email  Male/Female

Min Birth Date  Max Birth Date  Min Reservation date  Max Reservation Date  Payment Start date  Payment End Date

## Reservation

SSN	First Name	Last Name	Phone	Email	Sex	Birth Date	Plate id	Model	Year	Status	Price	Color	Power	Automatic/Manual	Tank Capacity	Location
15176891141235	Fady	Sameh	01233547384	fady@gmail.com	M	2000-04-12	C9ASD	Nissan Sunny	2017	Unavailable	250	grey	140	F	50	Egypt
15176891141235	Fady	Sameh	01233547384	fady@gmail.com	M	2000-04-12	Q1DKU	Skoda Octavia	2017	Available	230	white	140	F	50	Egypt
15176891141235	Fady	Sameh	01233547384	fady@gmail.com	M	2000-04-12	Z0FKS	Toyota Yaris	2016	Available	150	grey	140	F	50	Egypt

- In all pages, empty fields are ignored (matches all).
- Submission prints out a table with the details.



Admin dashboard (for car status and location/branch)

Location

Branch

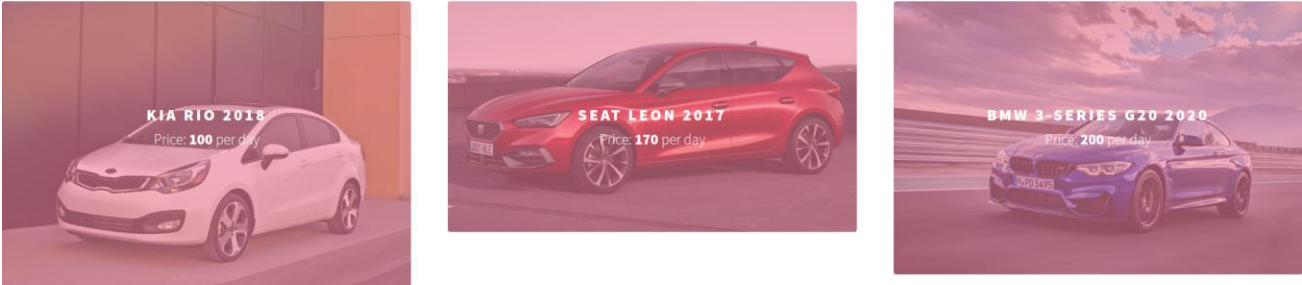
ADD A NEW LOCATION AND BRANCH

Location

Branch

ADD NEW BRANCH FOR EXISTING LOCATION

ACTIVE CARS





#### OUT OF SERVICE CARS



#### DETAILS



- Model: Seat Leon
- Year: 2017
- Status: Active

Do you want to change the car status to be Out of Service ?

YES



- An admin can add new locations and branches.
- The page shows which cars are active and which are out of service.
- Clicking on a car will go to a page where the car status can be changed (last picture).

## Customer related pages

### Payment

#### RESERVATIONS



##### RESERVATION #1



- Model: Kia Rio
- Year: 2018
- Color: white
- Type: Manual
- Plate ID: A3SKD
- Pickup Location: Lyon
- Pickup Time 2022-02-18
- Return Location: Paris
- Return Time: 2022-02-20
- Price per day: 100
- Reservation payment: \$300



- Model: Fiat Tipo
- Year: 2018
- Color: red
- Type: Manual
- Plate ID: M9TBS
- Pickup Location: Lyon
- Pickup Time 2022-02-21
- Return Location: Lyon
- Return Time: 2022-02-22
- Price per day: 200
- Reservation payment: \$400

**TOTAL AMOUNT TO BE PAID: \$1780**



- Shows the unpaid reservations of the customer.
- At the end, the total due amount is shown with a button for payment.
- Pressing the button makes all the reservations count as paid.

## Reservations report

### RESERVATIONS



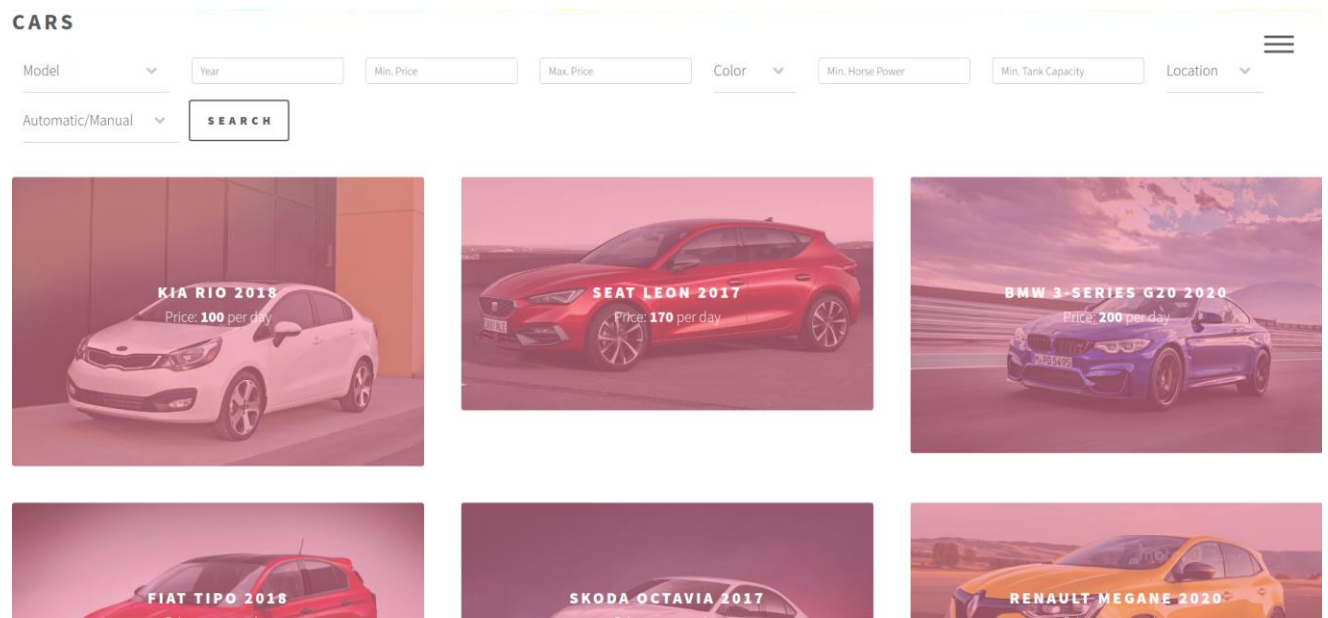
#### RESERVATION #1



- Model: Kia Rio
- Year: 2018
- Color: white
- Type: Manual
- Plate ID: A3SKD
- Pickup Location: Lyon
- Pickup Time 2022-02-18
- Return Location: Paris
- Return Time: 2022-02-20
- Price per day: 100

- Shows all the reservations of the customer.

## Car catalog



- Shows the available cars for rental.
- A customer can search using some or all of the car's details.
- Hovering shows more details.
- Pressing on a car will go to the reservation page.

## Reservation

### DETAILS



- Model: Kia Rio
- Year: 2018
- Color: white
- Horse Power: 140
- Type: Manual
- Tank Capacity: 50
- Location: France
- Price per day: 100

### RESERVE





- Model: Kia Rio
- Year: 2018
- Color: white
- Horse Power: 140
- Type: Manual
- Tank Capacity: 50
- Location: France
- Price per day: 100




### RESERVE

Pickup Location 

Return Location 

Pickup Time  

Return Time  

RESERVE

- Shows car details.
- A customer must fill in all the reservation details before submission.
- An erroneous submission will show an error message.