



# Database final project

## CAR RENTAL SYSTEM

Mohannad Bashar | 6656

Youssef Victor | 6668

Ahmed Abdulkabier | 6669

Mohamed Medhat Zayton | 6670

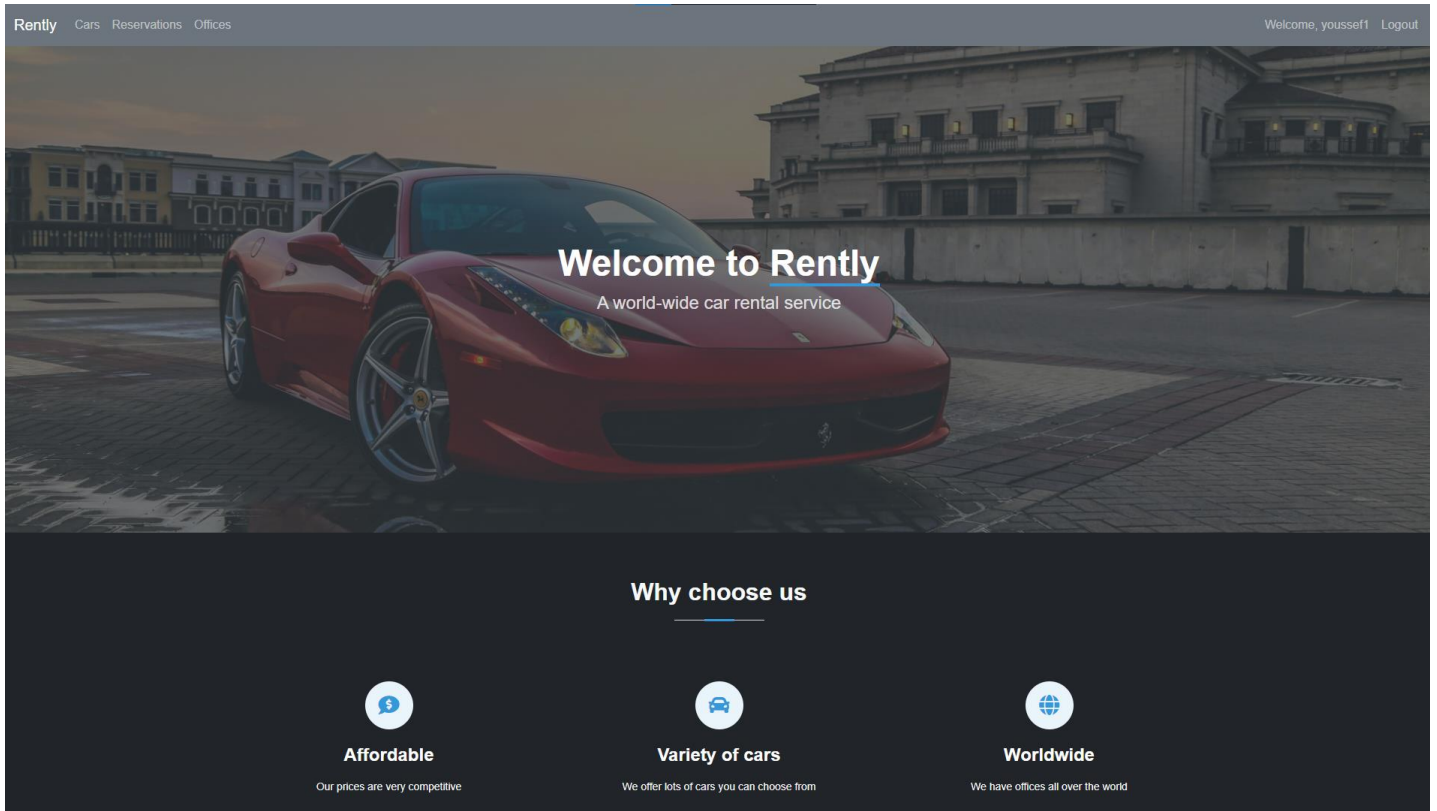
## Business logic

The application flow goes as follows:

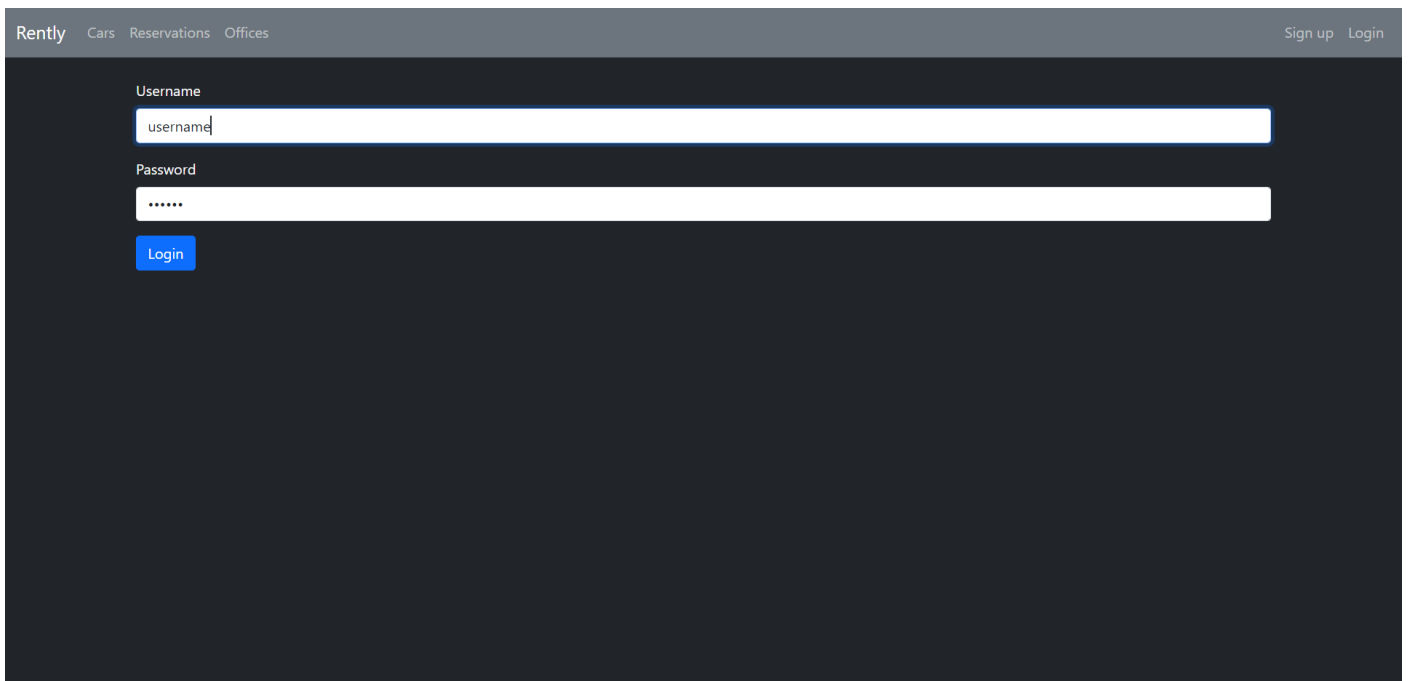
- Customers are able to sign up and login into the application.
- They can view all the cars in the system.
- They can also search with specific car attributes.
- They can reserve the car they like, if it's available.
- Then, when the customer goes to the office and take the car, an admin in the office will mark the car as "picked up".
- When the customer returns the car back to the office, an admin will mark it as "returned". A car won't be available for renting if it's picked up but not yet returned.
- An admin can record a reservation payment anytime.
- Each car is associated with an office.
- Each car has a status, active or out of service.
- An active car is available for rental unless it's already picked up and not yet returned.
- An out of service car is in "maintenance" mode, hence can't be reserved.
- Customers can search in cars, offices, and their own reservations.
- An admin can search in cars, offices, and all reservations.
- An admin can add/edit/search cars, add/edit/search offices, search customers, and mark reservations as picked up, returned, and paid.
- An admin can view some reports:
  - Show all reservations within a specified period.
  - Show all reservations of any car within a specified period
  - Show status of all cars on a specific day (active/out of service)
  - Show all reservations of specific customer
  - Show daily payments within a specific period

## APPLICATION SCREENS

### Home page:



### Login page:



Signup page:

Rently

Cars

Reservations

Offices

Sign up

Login

Username

username

First name

user

Last name

name

Email address

user@email.com

Password

\*\*\*

Password confirmation

\*\*\*

Sign up

Cars page:

Cars

Plate id

Model

Color

Year

Status

Any

Is reserved

Any

Office name

Office Location

Search

Plate	Model	Color	Year	Office Name	Office Location	Status	Is reserved	
556	KIA Cerato	red	2020	Gleem	Gleem	Active	No	Reserve
882	subaru suv	white	2018	Gleem	Gleem	Active	Yes	Reserve
992	ford	red	2022	Gleem	Gleem	Active	No	Reserve
1234	Ford	black	2024	Gleem	Gleem	Active	Yes	Reserve
3090	dikfg	lskdjhgsik	2000	Gleem	Gleem	Out of service	No	Reserve
6662	TESLA	BLACK	2023	Gleem	Gleem	Active	No	Reserve
111111	Fiat	red	2018	Gleem	Gleem	Active	Yes	Reserve

Reservations page:

Rently

Cars

Reservations

Offices

Welcome, yousef

Logout

Reservations

Car plate id

Rental date

mm/dd/yyyy

Search

Id	Rental date	Pickup date	Return date	Car plate id	Payment date	Payment amount
4	Jan. 10, 2022, 12:45 a.m.	None	None	556	None	None
5	Jan. 10, 2022, 12:45 a.m.	None	None	6669	None	None

Offices page:

Rently

Cars

Reservations

Offices

Welcome, yousef

Logout

Offices

Office id

Office name

Office location

Search

Office id	Office name	Office location
1	Gleem	Gleem
2	youssef's office	LORAN
3	zyton's office	SPORTING

## Customers page: (admin only)

Rently

CarsReservationsOfficesCustomersReport

Welcome, adminLogout

Search Id

Search Username

Search First Name

Search Last Name

Search Email

Search

Id	Last login	Is admin	Username	First name	Last name	Email	Date joined
1	Jan. 5, 2022, 1:16 p.m.	False	ahmadabdulkabier	ahmad	hassan	ahmedabdelkabier7@gmail.com	Jan. 5, 2022, 1:16 p.m.
2	Jan. 9, 2022, 10:47 p.m.	True	admin			admin@gmail.com	Jan. 8, 2022, 2:29 p.m.
3	Jan. 9, 2022, 10:44 p.m.	False	youssef	YOUSSEF	victor	test@gmail.com	Jan. 8, 2022, 5:41 p.m.

## Reports pages: (admin only)

Rently

CarsReservationsOfficesCustomersReport

Welcome, adminLogout

REPORTS

Show all reservations within a specified period

Show all reservations of any car within a specified period

Show status of all cars on a specific day

Show all reservations of specific customer

Show daily payments within a specific period

Periodic Reservations Includes Cars And Customers(admin only):

Rently

CarsReservationsOfficesCustomersReport

Welcome, adminLogout

Periodic Reservations Includes Car And Customers

From date

mm/dd/yyyy

To date

mm/dd/yyyy

Search

Id	Rental date	Pickup date	Return date	Car plate id	Customer id	Payment date	Payment amount
1	Jan. 5, 2022, 5:52 p.m.	None	None	1234	1	None	None
2	Jan. 5, 2022, 5:59 p.m.	None	None	None	1	None	None
3	Jan. 8, 2022, 4:57 p.m.	None	None	1234	2	None	None

Cars Reservations Report(admin only):

Rently

CarsReservationsOfficesCustomersReport

Welcome, adminLogout

Cars Reservations Reports

From date

mm/dd/yyyy

To date

mm/dd/yyyy

Search

Id	Rental date	Pickup date	Return date	Car plate id	Payment date	Payment amount
1	Jan. 5, 2022, 5:52 p.m.	None	None	1234	None	None
2	Jan. 5, 2022, 5:59 p.m.	None	None	None	None	None

## Status of all cars in a specific day(admin only):

Rently

Cars

Reservations

Offices

Customers

Report

Welcome, admin

Logout

### Customer Reservation

Search

Plate Id	Date	Status
8252	Jan. 10, 2022	Active

## All reservations of a specific customer(admin only):

Rently

Cars

Reservations

Offices

Customers

Report

Welcome, admin

Logout

### Customer Reservation

Search

Username	First Name	Date	Last Name	Email	Plate ID	Model
admin				admin@gmail.com	1234	Ford



### Daily payments with a specific period(admin only):

Rently

Cars

Reservations

Offices

Customers

Report

Welcome, admin

Logout

Payment

From

mm/dd/yyyy

To

mm/dd/yyyy

Search

Payment Date	Payment Amount
Jan. 10, 2022	6862

### Navigation bar of admin user:

Rently

Cars

Reservations

Offices

Customers

Report

Welcome, admin

Logout

### Navigation bar of normal user:

Rently

Cars

Reservations

Offices

Welcome, yousef

Logout

## ERD:

