

Goals:

Design a car rental system that's realistic and can be used.

The system provides multiple offices all over the world.

Validations:

- Customers must be over 18 years
- Customers must enter valid national id and license number
- Password must be at least 8 characters
- No more than one account can be created for same person (national id, license number, and email must be unique)
- Rent dates must be valid (Customer can't rent a car in previous dates)

Features:

Admin:

- View all daily payments (or choose specific range of dates)
- View all customers information (except for password)
- Insert a new office
- View all offices
- Insert new car to specific office
- Update car if it's out of service
- View all cars
- View Reservations:
 - Can search by any of customer's information (name, email, national id, etc..)
 - Can search by any of car's information (type, model, year, etc..)
 - Can search by reservation information (start date, end date, payment done or not)

Customer:

- First customer should register and then log in
- He/she will be directed to home page where he/she can search for any car according to his/her need
- They must enter the following:
 - Start and end date of reservation
 - Country
- They'll also have the following as optional:
 - Min, max price
 - Car's type, model, model year

- After Renting a car he/she can go to the payment page having 2 options:
 - Rent
 - Cancel reservation
- Finally, a customer can view all of his reservations.

Security:

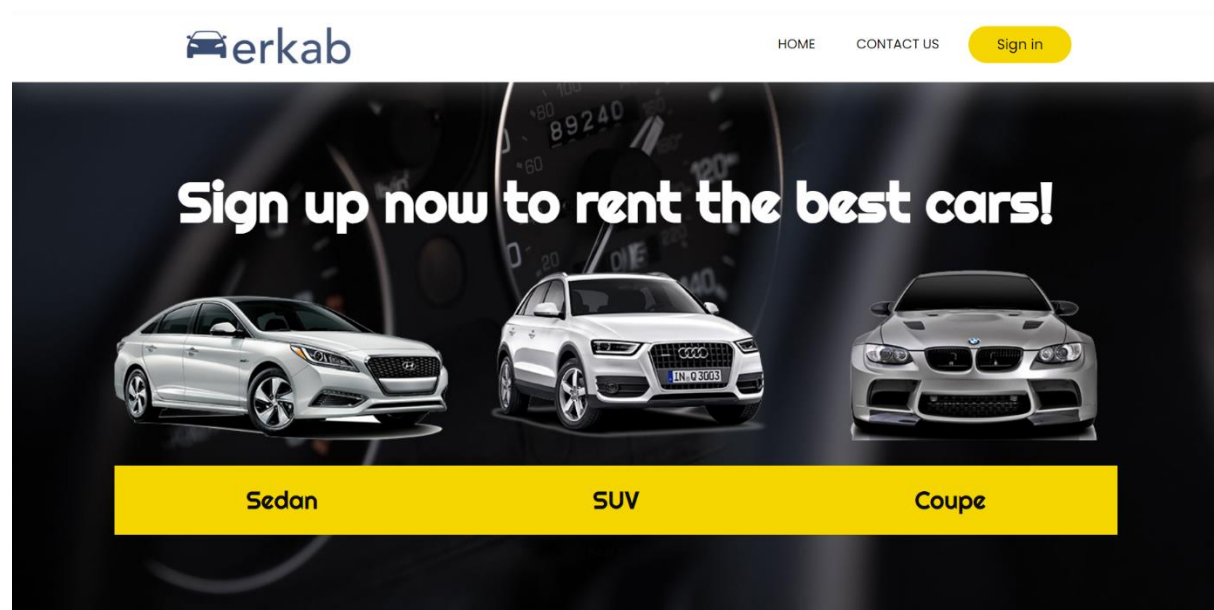
No one can access or see the admin section except the admin when he enters his email and password in the login.

Queries:


All queries are designed efficiently to get all the correct data for admin or customers and are dynamic to the advanced search the system provides. In other words, there's only one query to retrieve the data works for entering (car's specs, customer's information, etc..) or leaving these boxes empty.

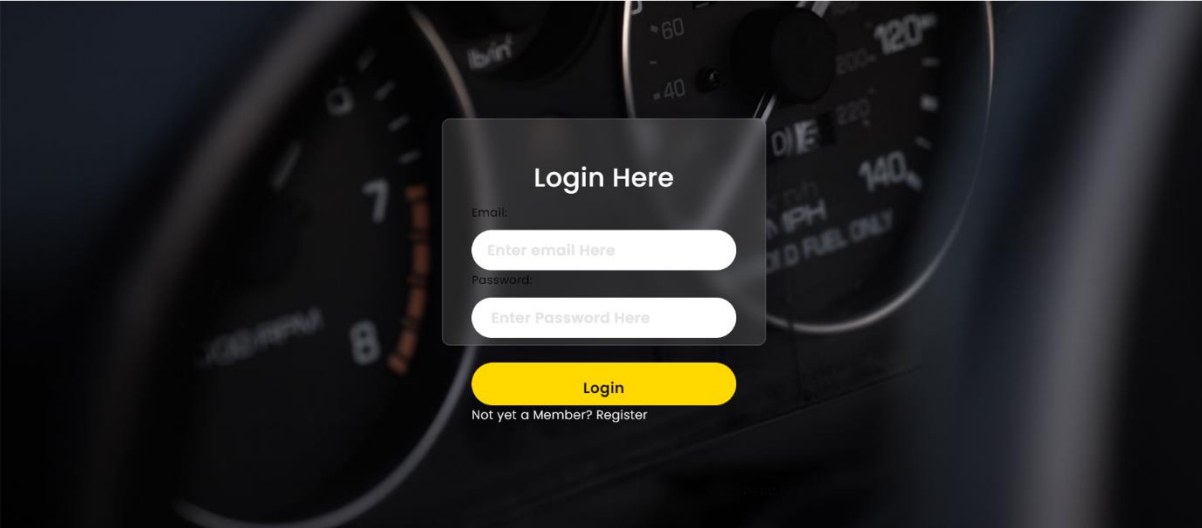
Customer:

Home page:



Login page:

 [HOME](#) [CONTACT US](#)



Login Here


Email:

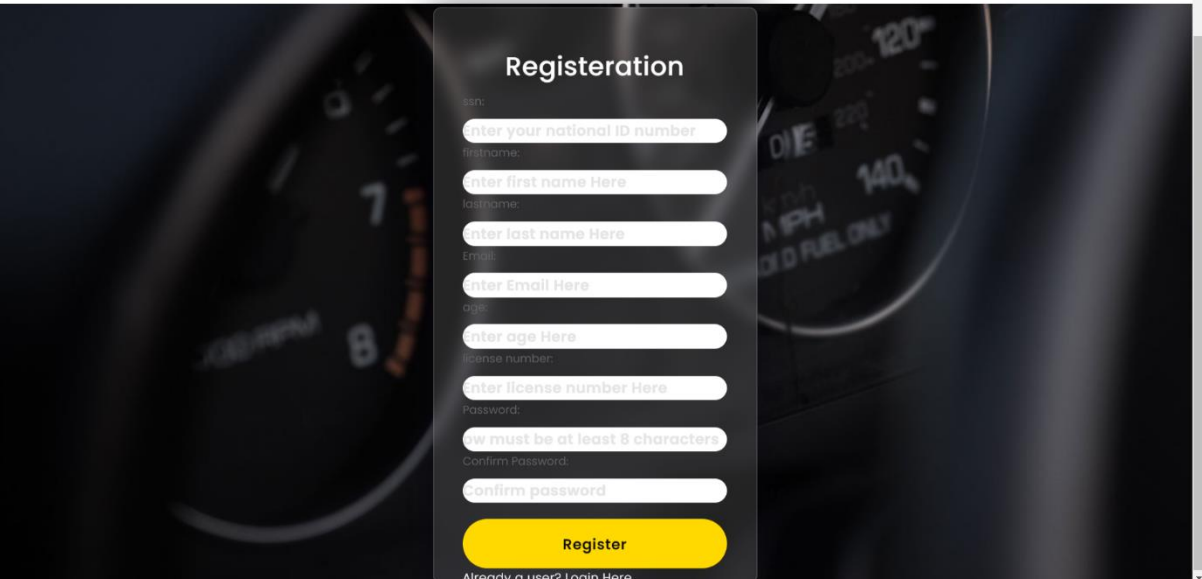
Password:

[Login](#)

[Not yet a Member? Register](#)

Registration page:





Registration

ssn:

firstname:

lastname:

Email:

age:

license number:

Password:

Confirm Password:

[Register](#)

[Already a user? Login Here](#)

Home page after login:



HOME

CONTACT US

RESERVED

PAYMENT

Sign out

Find Your Best Car Mohamed!

Choose car Type

Car Model

Car Model Year

Price min

Price max

December 2022

Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Start Date

End Date

here is car types customer can choose from(can leave empty)

can enter or leave empty as he wish

All previous dates are locked when user is choosing dates of renting

here's country and it's a must

here's city and user can ignore it if he wish to travel to any city to rent specific car!

Car search:

Available cars



plate: 2347
model: bmw x6
type: suv
year: 2011
engine capacity: 3800
horsepower: 370
color: black
price/day:3000
Office phone: 01226 916190
Office location:Zamalek

office that have the car



Rent



press here to reserve the car
Once a customer have rented
a car no other customer can
rent it in the same time

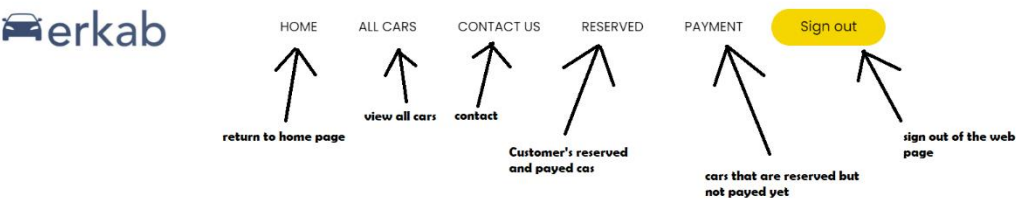


plate: 2567
model: hyundai accent
type: sedan
year: 2018
engine capacity: 1400
horsepower: 110
color: red
price/day:700
Office phone: 01226 916190
Office location:Zamalek

Rent



Payment:



Payment



Reservation date: 2022-12-31
Return date: 2023-01-08
plate: 2567
model: hyundai accent
type: sedan
year: 2018
engine capacity: 1400
horsepower: 110
color: red
price/day: 700
price: 5600



cancel the reservation

pay the amount

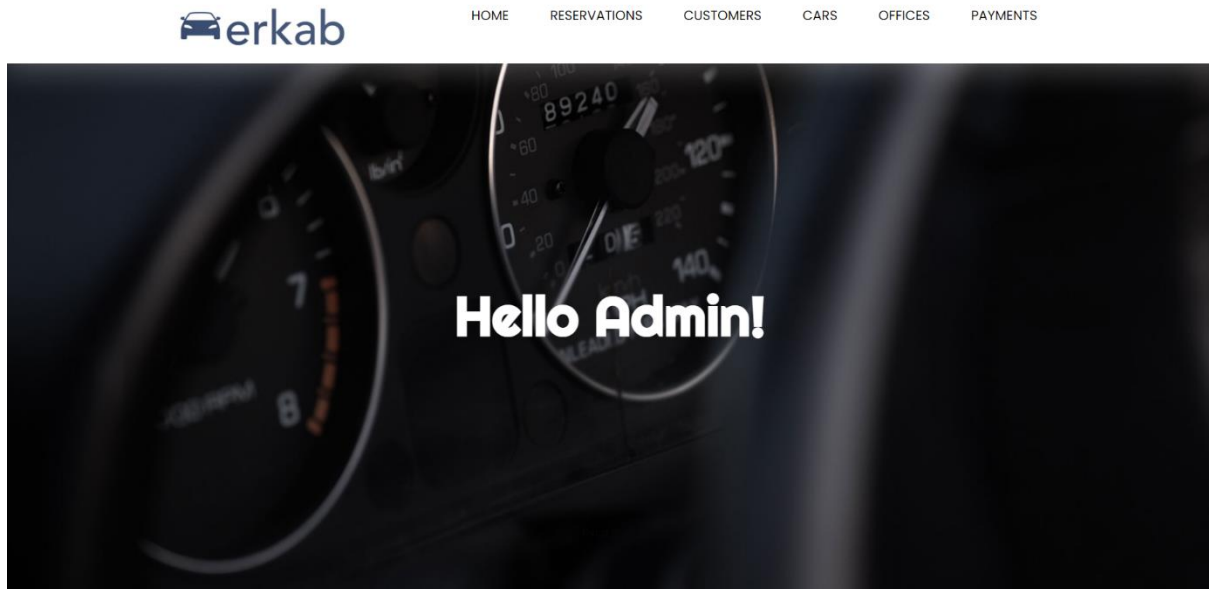


Reservation date: 2023-01-06
Return date: 2023-01-08
plate: 3564
model: audi q7
type: suv
year: 2019
engine capacity: 2000
horsepower: 200
color: white
price/day: 3000
price: 6000



Admin:

Home page:



Reservations search:

The screenshot shows the Reservations search form in the erkab system. The form is divided into three main sections: Customer, Car, and Reservation. Each section contains several input fields for search criteria. A yellow "Search" button is located at the bottom center of the form.

Customer	Car	Reservation
First name <input type="text" value="first name"/>	Plate ID <input type="text" value="plate id"/>	
Last name <input type="text" value="last name"/>	Car type <input type="text" value="car type"/>	
SSN <input type="text" value="ssn"/>	Model year <input type="text" value="model year"/>	Start Date <input type="text" value="dd/mm/yyyy"/>
License number <input type="text" value="license number"/>	Model <input type="text" value="model"/>	End Date <input type="text" value="dd/mm/yyyy"/>
Age <input type="text" value="age"/>	Price <input type="text" value="price"/>	Payment done? <input type="text" value="Don't care"/>
email <input type="text" value="email"/>	Color <input type="text" value="color"/>	<input type="text" value="yes"/>
	Office ID <input type="text" value="office id"/>	<input type="text" value="no"/>

Any of this can be left empty or the admin can enter something special he wants to search for it.

Result of search:

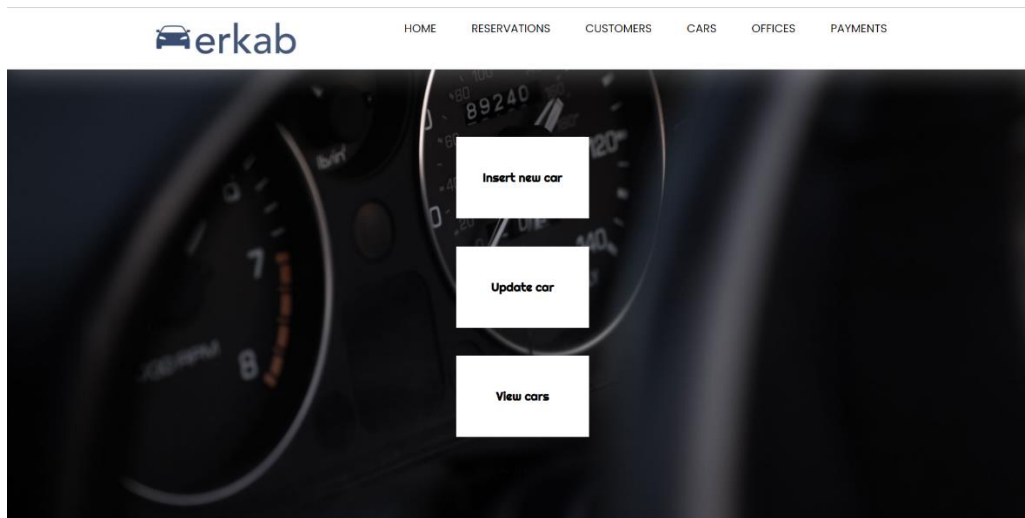
Reservations																
First name	Last name	Email	ssn	License Number	Age	plate ID	Type	Model	Model year	HP	CC	color	Office ID	Reservation Date	Return Date	Payment
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2347	suv	bmw x6	2011	370	3800	black	2	2022-12-24	2022-12-29	Done
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2347	suv	bmw x6	2011	370	3800	black	2	2023-01-28	2023-01-31	Done
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2347	suv	bmw x6	2011	370	3800	black	2	2023-02-21	2023-02-24	Done
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2347	suv	bmw x6	2011	370	3800	black	2	2023-02-15	2023-02-18	Done
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2567	sedan	hyundai accent	2018	110	1400	red	2	2022-12-24	2022-12-29	Done
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2567	sedan	hyundai accent	2018	110	1400	red	2	2022-12-31	2023-01-08	waiting
Mohamed	wahid	wahid@email.com	999777888	5465666	21	2943	sedan	bmw 520i	2018	380	2000	red	2	2022-12-24	2022-12-29	Done

Customers:



Customers				
First name	Last name	Email	ssn	License Number
Kirollos	Hanna	kiro.neblaa@gmail.com	10	645789
kiro	nabil	kiro.neblaaasa@gmail.com	1022	656
mariam	nabil	maro@gmail.com	15400	111222
Kirollos	nabil	admin@gmail.com	45456	11111111
ahmed	zayan	zayan@email.com	45621	2222
ahmed	zayan	ahmedzayan2001@gmail.com	123456	7777
Mohamed	wahid	wahid@email.com	999777888	5465666
May	Talaat	maytalaat@icloud.com	2147483647	1266345677
kiro	nabil	kiro.nebla141a@gmail.com	454561234567	54656667

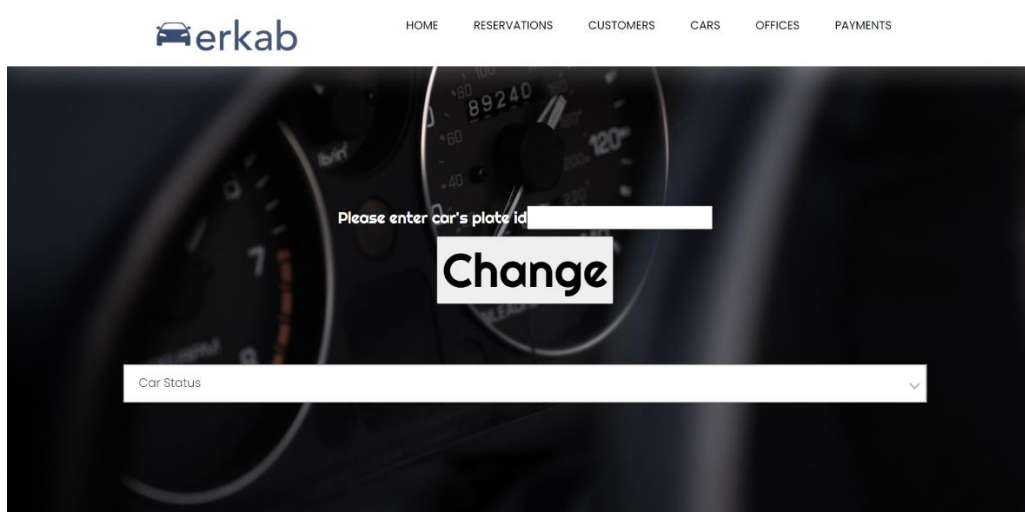
Cars:



Insert new car:



Update car (if a car is out of service for any reason):



View cars:



[HOME](#) [RESERVATIONS](#) [CUSTOMERS](#) [CARS](#) [OFFICES](#) [PAYMENTS](#)

Cars



plate: 2347
model: bmw x6
type: suv
year: 2011
engine capacity: 3800
horsepower: 370
color: black
price/day:3000
Office ID: 2
Office phone: 01226 916190
Office location:Zamolek



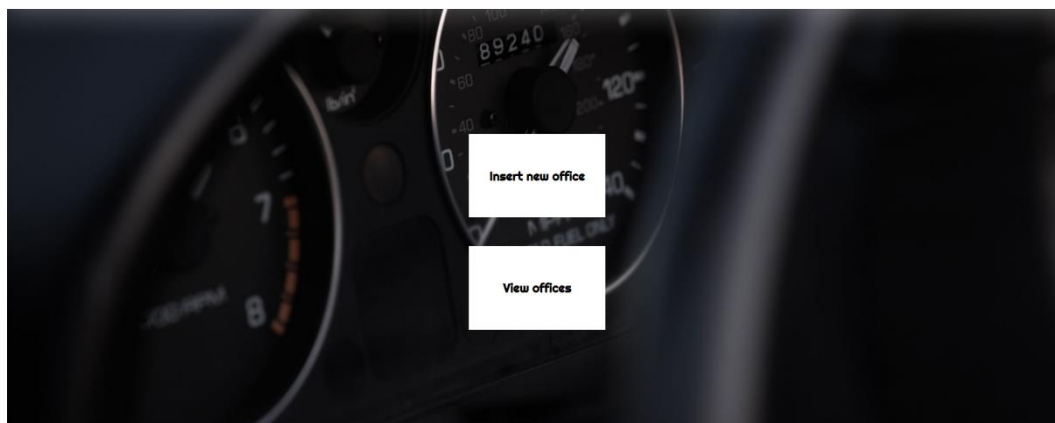
plate: 2567
model: hyundai accent
type: sedan
year: 2018
engine capacity: 1400
horsepower: 110
color: red
price/day:700
Office ID: 2
Office phone: 01226 916190
Office location:Zamolek




Offices:



[HOME](#) [RESERVATIONS](#) [CUSTOMERS](#) [CARS](#) [OFFICES](#) [PAYMENTS](#)



Insert new office:



HOME RESERVATIONS CUSTOMERS CARS OFFICES PAYMENTS

Insert office

office id:


address:

country:

city:

phone:


View offices:



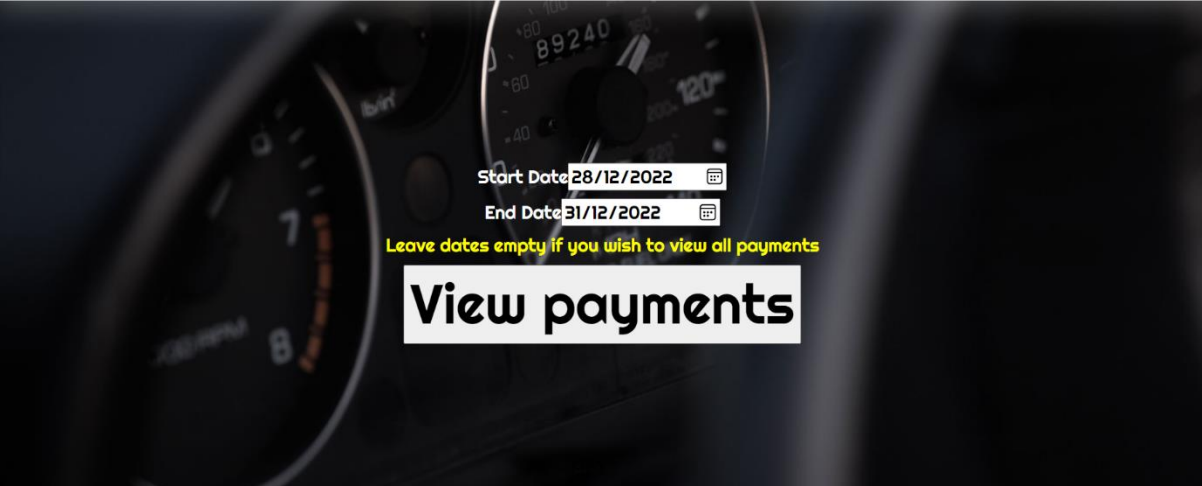
HOME RESERVATIONS CUSTOMERS CARS OFFICES PAYMENTS

offices				
office_id	address	country	city	phone
2	Zamalek	Egypt	Cairo	01226 916190
3	avenue de Nador, 20550 Quartier: Nouvelle Médina	Morocco	Casablanca	01226 916190

Payment:



HOME RESERVATIONS CUSTOMERS CARS OFFICES PAYMENTS



Start Date28/12/2022

End Date31/12/2022

Leave dates empty if you wish to view all payments

View payments



HOME RESERVATIONS CUSTOMERS CARS OFFICES PAYMENTS

Payments

Payment Date	Amount Paid
2022-12-29	41500
2022-12-30	79983600