

Car Rental System

Final Database Project

Mohamed Mohamed Hendawi

7009

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7229

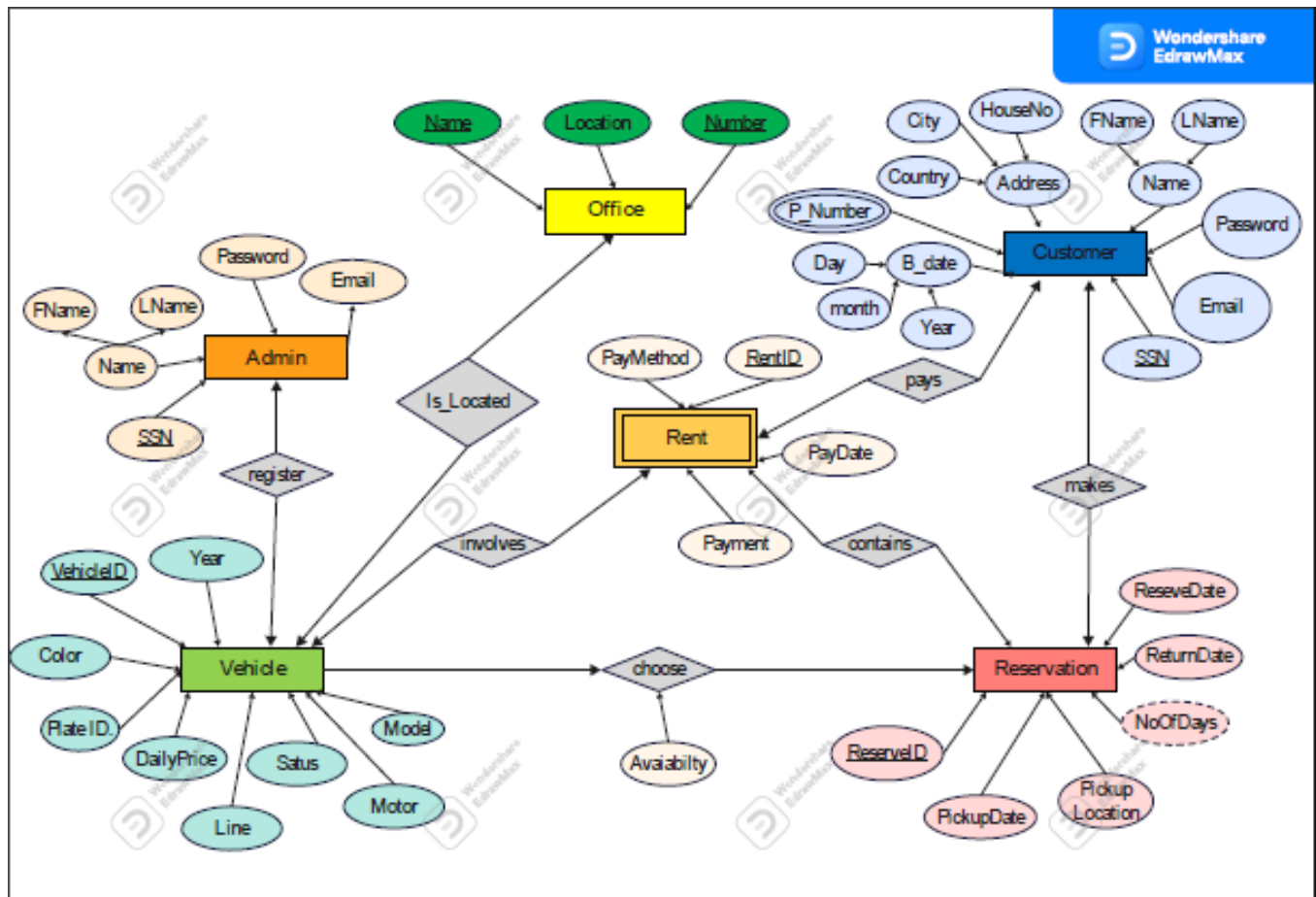
Abdallah Gamal Mubarak

6771

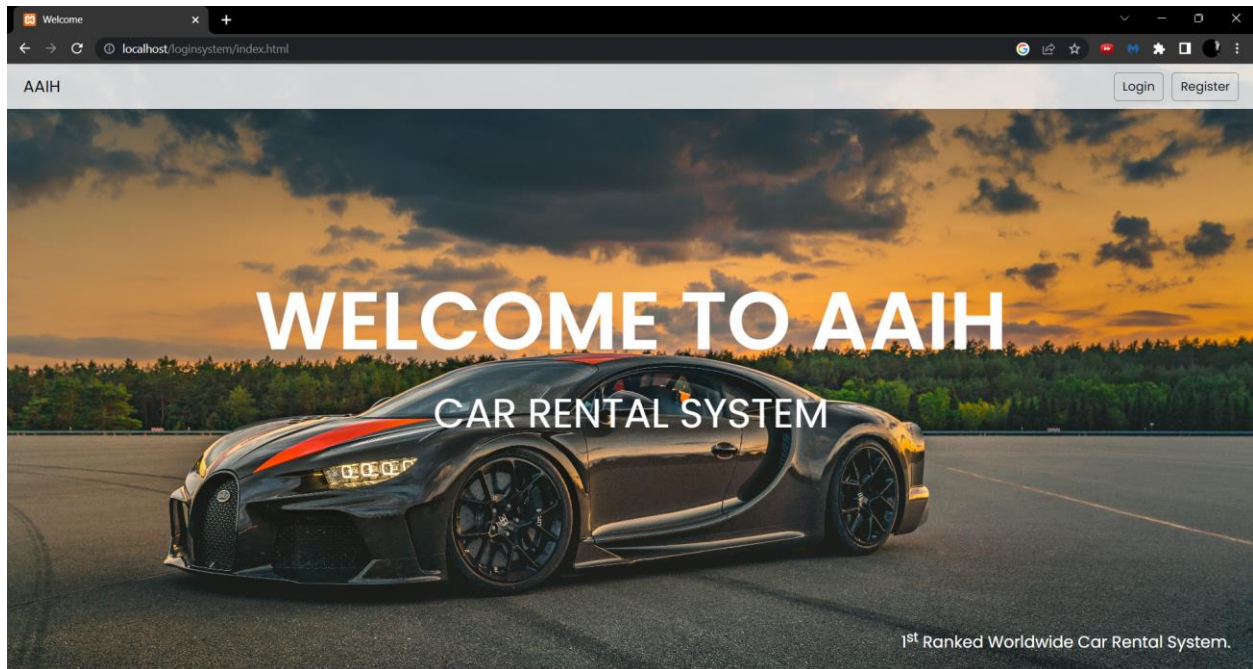
Abdallah Fahmy Kassem

6866

ER Diagram

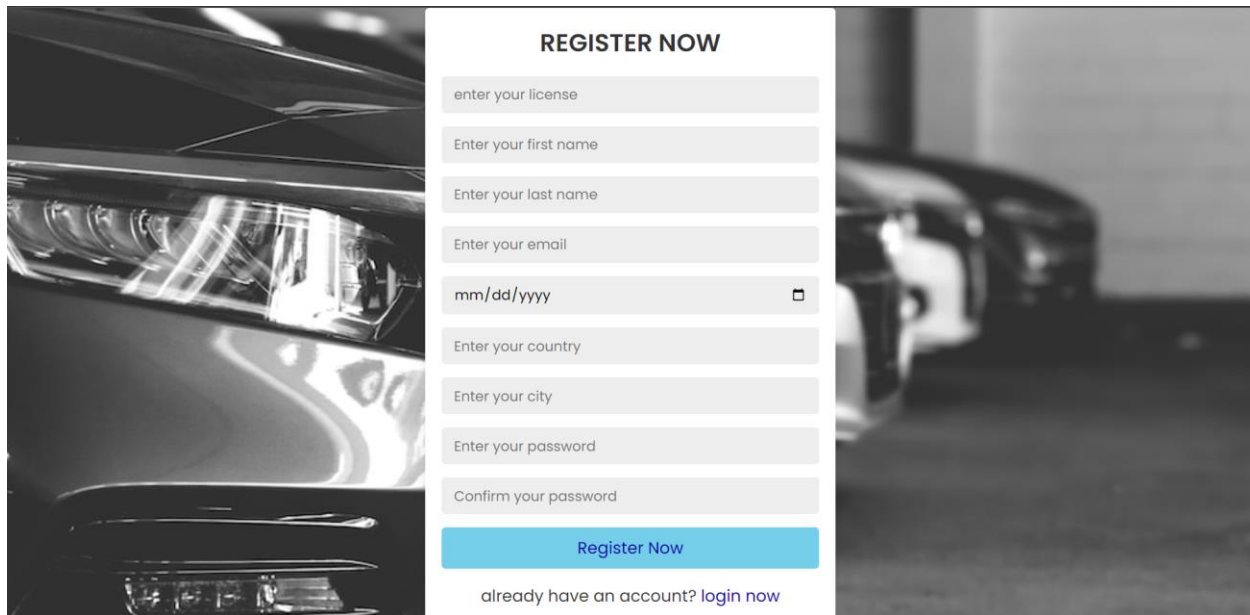


1] Welcome Page:



Welcome Page is designed with some features. It has two buttons. First button (login) is used for user login and second one register button is used for registration for the first time. On the top left is the name of our car rental system name AAIH -an abbreviation of our names- as shown in figure above.

2] Registration:



REGISTER NOW

enter your license

Enter your first name

Enter your last name

Enter your email

mm/dd/yyyy

Enter your country

Enter your city

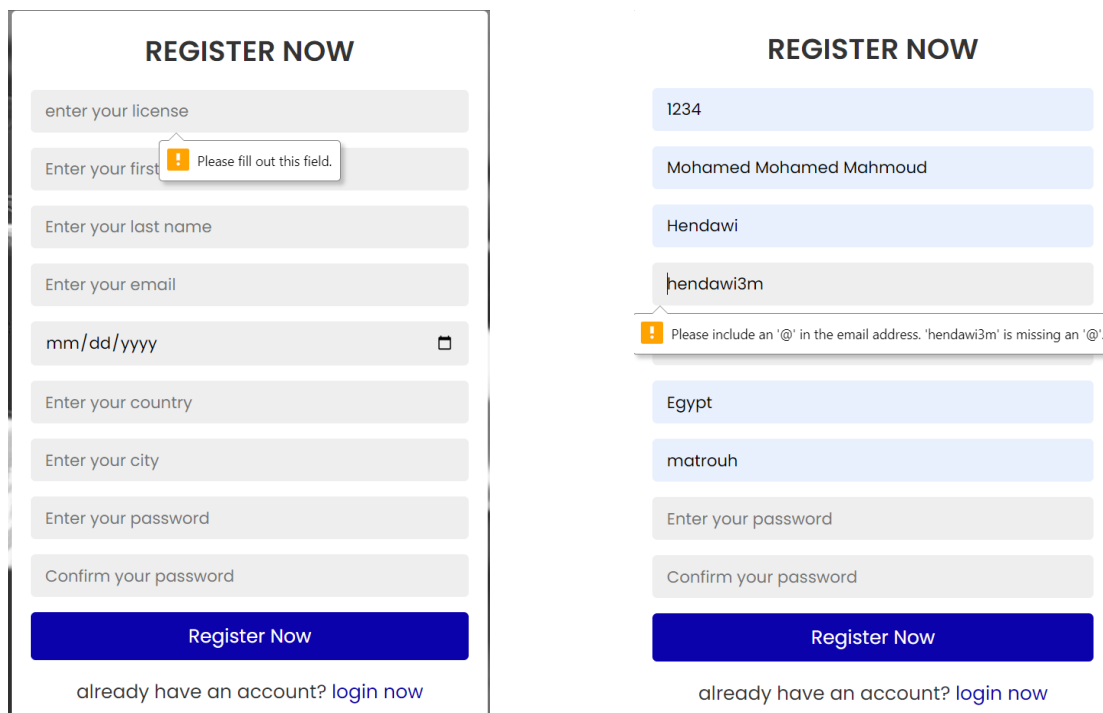
Enter your password

Confirm your password

[Register Now](#)

already have an account? [login now](#)

In registration page, it's required from the user to enter his/her license, name, email, etc. as shown in figure 2. There's a Javascript validation on license and password inputs and an HTML validation on email format. Also, there's an empty field checker with HTML "required placeholder". The next figures show validations.



REGISTER NOW

enter your license

Enter your first ! Please fill out this field.

Enter your last name

Enter your email

mm/dd/yyyy

Enter your country

Enter your city

Enter your password

Confirm your password

[Register Now](#)

already have an account? [login now](#)

REGISTER NOW

1234

Mohamed Mohamed Mahmoud

Hendawi

hendawi3m

! Please include an '@' in the email address. 'hendawi3m' is missing an '@'.

Egypt

matrouh

Enter your password

Confirm your password

[Register Now](#)

already have an account? [login now](#)

Car Rental System

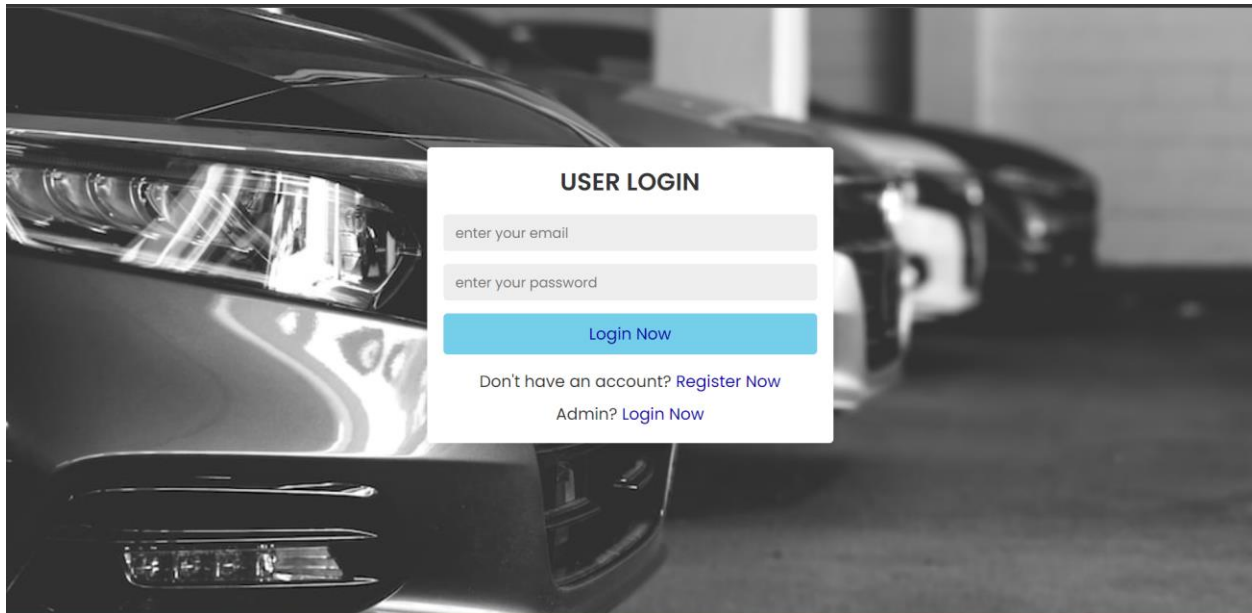
REGISTER NOW	REGISTER NOW
<input type="text" value="1234"/>	<input type="text" value="1234-125-3545"/>
<small>Please enter a valid SSN.</small>	
<input type="text" value="Mohamed Mohamed Mahmoud"/>	<input type="text" value="Mohamed Mohamed Mahmoud"/>
<input type="text" value="Hendawi"/>	<input type="text" value="Hendawi"/>
<input type="text" value="hendawi3@gmail.com"/>	<input type="text" value="hendawi3@gmail.com"/>
<input type="text" value="12/16/2022"/>	<input type="text" value="12/16/2022"/>
<input type="text" value="Egypt"/>	<input type="text" value="Egypt"/>
<input type="text" value="matrouh"/>	<input type="text" value="matrouh"/>
<input type="password" value="....."/>	<input type="password" value="...."/>
<input type="password" value="....."/>	<small>Please enter a valid Password.</small>
<input type="button" value="Register Now"/>	<input type="button" value="Register Now"/>
already have an account? login now	already have an account? login now

If the user email or ssn is repeated in registration, then error message “user already exist!” is shown and no registration happens.

REGISTER NOW
<input type="button" value="user already exist!"/>
<input type="text" value="enter your license"/>
<input type="text" value="Enter your first name"/>
<input type="text" value="Enter your last name"/>
<input type="text" value="Enter your email"/>
<input type="text" value="mm/dd/yyyy"/>
<input type="text" value="Enter your country"/>
<input type="text" value="Enter your city"/>
<input type="text" value="Enter your password"/>
<input type="text" value="Confirm your password"/>
<input type="button" value="Register Now"/>

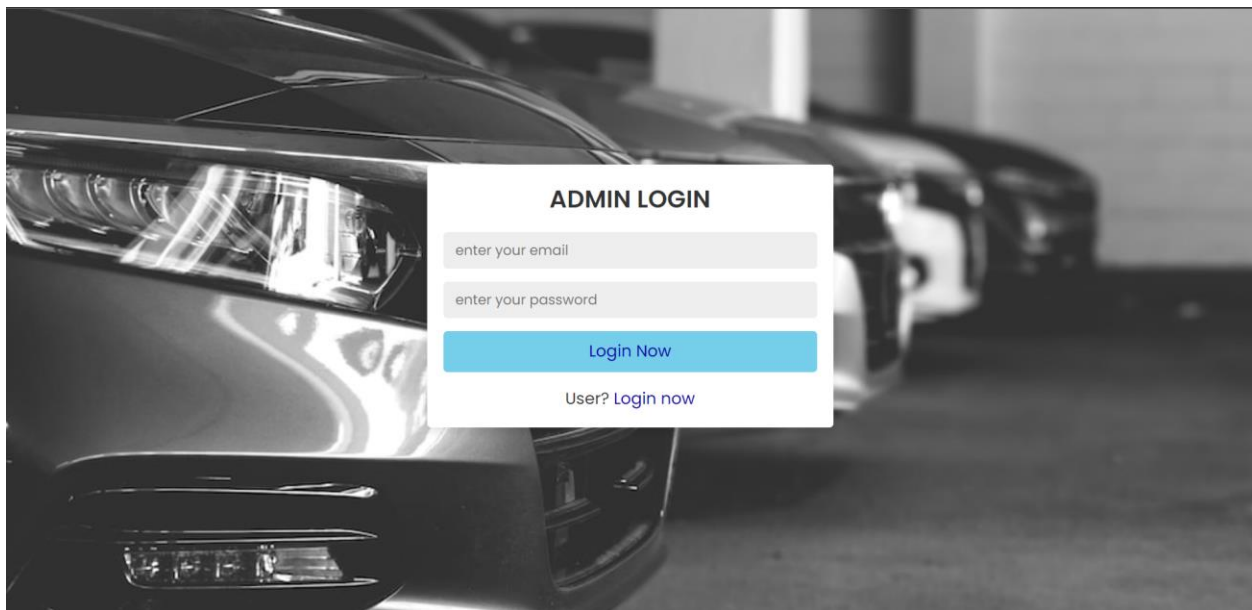
It also contains the hyperlink “login now” that navigates to user login page.

3] User Login:



Here, the user can log into the dashboard by typing his / her email and password. This page also contains 2 hyperlinks “Register Now” for redirection for registration and the other one “Login Now” for Admin login

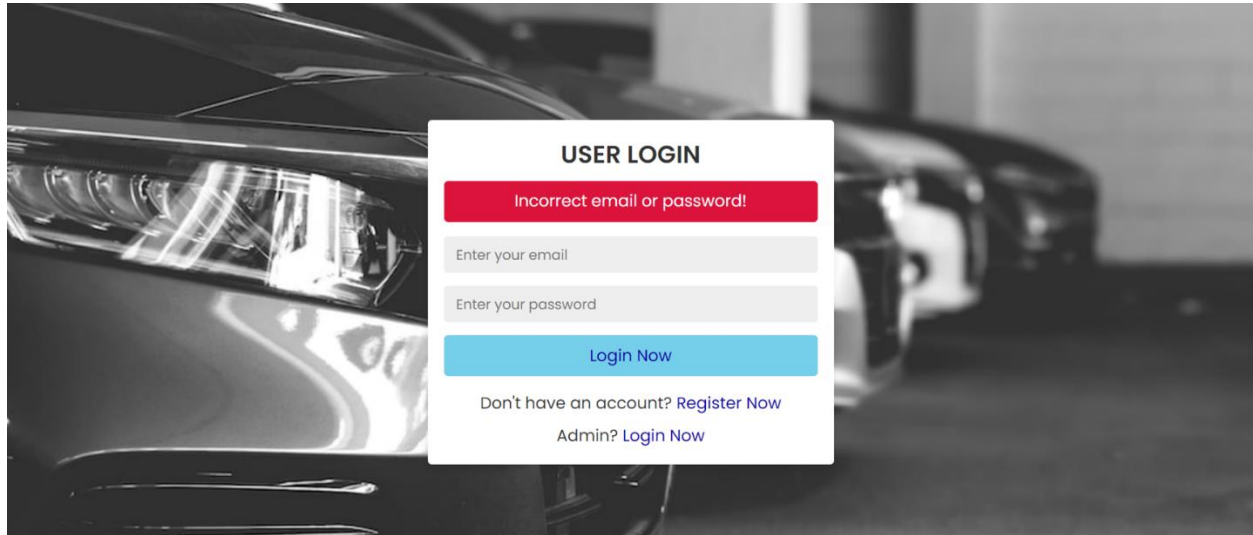
4] Admin Login:



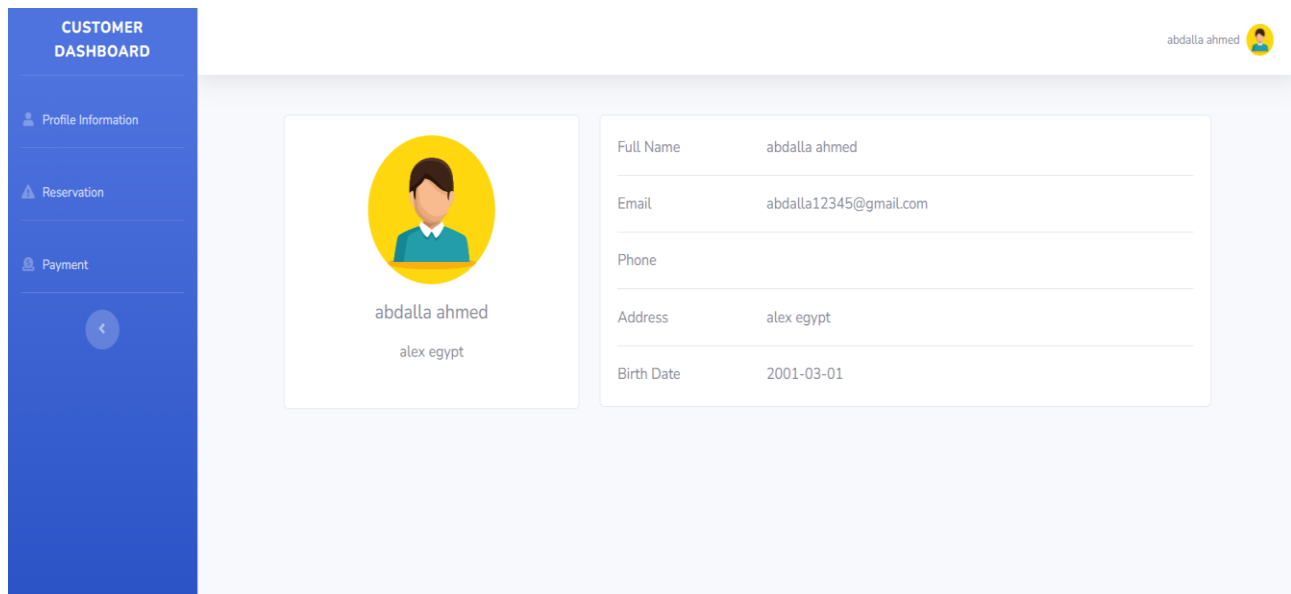
In this page, admin is required to type his / her email and password to login admin dashboard. The page has a hyperlink “login now” to redirect to user login page.

Test case over user login:

When inserting wrong E-mail and Password.



After logging in with correct user.



So, user can do searches over cars and its office.

Test case over searching:

Find cars with red color

CUSTOMER DASHBOARD

Profile Information

Reservation

Payment

abdalla ahmed

Reservation Details

Pickup Location

City, Airport, Station, etc

Pick Up Date

mm/dd/yyyy

Return Date

mm/dd/yyyy

Selected Car ID

...

Payment Method

Visa, Cash,...

Reserve Car Now

Pay Now

Search Cars

red

Q

☒ Color (black, red, green,...)

☐ Brand (Tesla, Toyota, Ford,...)

☐ Motor (Gas, Electric, Hybrid,...)

☐ Year (2006, 2008, 2022,...)

☐ Office (Egypt, Japan, Germany,...)

☐ Line (Basic, Top, Sport,...)

Results.

Search Results

Show 10 entries

Search:

Vehicle ID	Plate ID	Price/Day	Year Model	Color	Line	Motor	Brand
254363	25432	2000000	2022	red	basic	electric	merc
1425786	63214	4000000	2020	red	basic	electric	FAIT
96325874	63254	1000000	2010	red	basic	hybrid	Hyundai
963524874	52154	100000	2010	red	basic	hybrid	Hyundai
963855874	55554	100000	2010	red	sport	hybrid	Hyundai

Showing 1 to 5 of 5 entries

Previous 1 Next

Car Rental System

Find BMW cars.

CUSTOMER DASHBOARD

Profile Information

Reservation

Payment

abdalla ahmed

Reservation Details

Pickup Location

City, Airport, Station, etc

Pick Up Date

mm/dd/yyyy

Return Date

mm/dd/yyyy

Selected Car ID

...

Payment Method

Visa, Cash,...

Reserve Car Now

Pay Now

Search Cars

BMW

Color (black, red, green,...)

Brand (Tesla, Toyota, Ford,...)

Motor (Gas, Electric, Hybrid,...)

Year (2006, 2008, 2022,...)

Office (Egypt, Japan, Germany,...)

Line (Basic, Top, Sport,...)

Results.

Search Results

Show 10 entries

Search:

Vehicle ID	Plate ID	Price/Day	Year Model	Color	Line	Motor	Brand
235468	12345	3000000	2008	blue	basic	gas	BMW

Showing 1 to 1 of 1 entries

Previous

1

Next

Search over motor type.

Profile Information

Reservation

Payment

Search Cars

gas

Color (black, red, green,...)

Brand (Tesla, Toyota, Ford,...)

Motor (Gas, Electric, Hybrid,...)

Year (2006, 2008, 2022,...)

Office (Egypt, Japan, Germany,...)

Line (Basic, Top, Sport,...)

Reservation Details

Pickup Location

City, Airport, Station, etc

Pick Up Date

mm/dd/yyyy

Return Date

mm/dd/yyyy

8 | Page

Car Rental System

Results.

Search Results

Show entries Search:

Vehicle ID	Plate ID	Price/Day	Year Model	Color	Line	Motor	Brand
235468	12345	3000000	2008	blue	basic	gas	BMW
854763	63259	200000	2008	blue	top	gas	LADA
857773	63889	250000	2008	yellow	top	gas	nissan

Showing 1 to 3 of 3 entries Previous **1** Next

Search over the year of car.

Profile Information

Reservation

Payment

Reservation Details

Pickup Location

Pick Up Date

Return Date

Selected Car ID

Search Cars

- ☐ Color (black, red, green,...)
- ☐ Brand (Tesla, Toyota, Ford,...)
- ☐ Motor (Gas, Electric, Hybrid,...)
- ☒ Year (2006, 2008, 2022,...)
- ☐ Office (Egypt, Japan, Germany,...)
- ☐ Line (Basic, Top, Sport,...)

Result.

Search Results

Show entries Search:

Vehicle ID	Plate ID	Price/Day	Year Model	Color	Line	Motor	Brand
254363	25432	2000000	2022	red	basic	electric	merc

Showing 1 to 1 of 1 entries Previous **1** Next

Search over the line.

Profile Information

Reservation

Payment

Reservation Details

Pickup Location

City, Airport, Station, etc

Pick Up Date

mm/dd/yyyy

Return Date

mm/dd/yyyy

Selected Car ID

...

Payment Method

Search Cars

sport

Color (black, red, green,...)

Brand (Tesla, Toyota, Ford,...)

Motor (Gas, Electric, Hybrid,...)

Year (2006, 2008, 2022,...)

Office (Egypt, Japan, Germany,...)

Line (Basic, Top, Sport,...)

Result.

Search Results

Show 10 entries

Search:

Vehicle ID	Plate ID	Price/Day	Year Model	Color	Line	Motor	Brand
632698	21536	4500000	2020	black	sport	electric	FAIT
963855874	55554	100000	2010	red	sport	hybrid	Hyndai

Showing 1 to 2 of 2 entries

Previous

1

Next

Reserve a car that already reserved.

localhost says

Car already reserved

OK

Reserve a car.

Profile Information

Reservation

Payment



Reservation Details

Pickup Location

egypt

Pick Up Date

12/01/2022



Return Date

12/29/2022



Selected Car ID

854763

Payment Method

cash

Reserve Car Now

Pay Now

Search Cars

Search for...



○ Color (black, red, green,...)

○ Brand (Tesla, Toyota, Ford,...)

○ Motor (Gas, Electric, Hybrid,...)

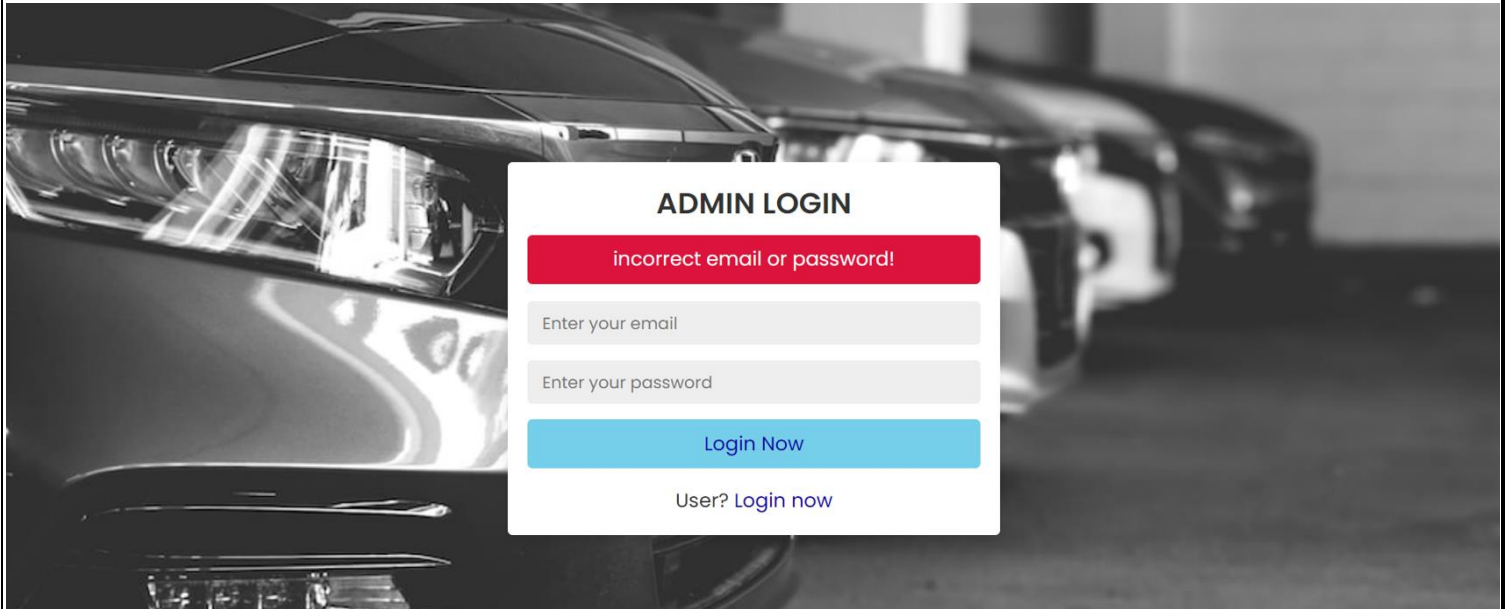
○ Year (2006, 2008, 2022,...)

○ Office (Egypt, Japan, Germany,...)

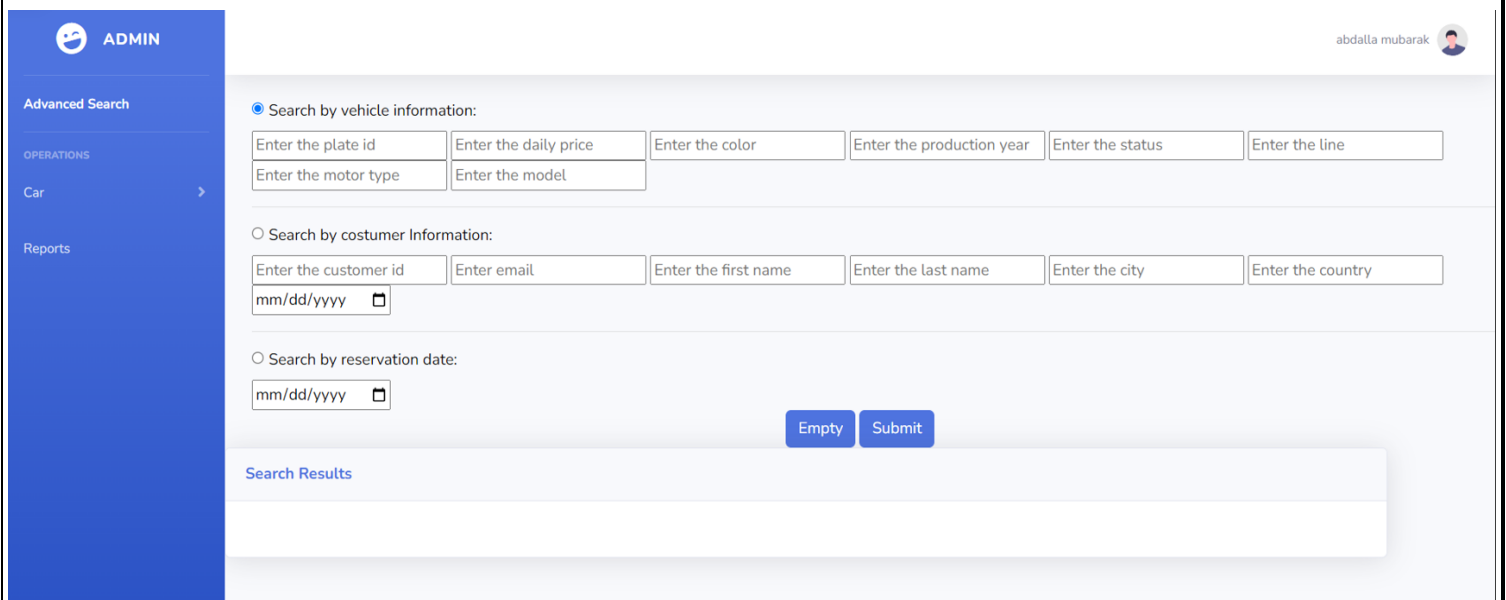
○ Line (Basic, Top, Sport,...)

Test case over admin login:

When inserting wrong E-mail and Password.



After logging in with correct admin.



Searching with reservation date.

☒ Search by reservation date:

03/02/2022 

Empty

Submit

Search Results

Result.

Search Results

Reservation ID : 24277553	pickup date: 2022-03-03	pickup location: england	Return date: 2022-04-17	Reservation date2022-03-02	Customer License: 7632552	Vehicle id: 854763
Reservation ID : 85362	pickup date: 2022-08-02	pickup location: germany	Return date: 2022-08-24	Reservation date2022-03-02	Customer License: 131	Vehicle id: 1425786
Reservation ID : 9335	pickup date: 2022-06-04	pickup location: france	Return date: 2022-10-26	Reservation date2022-03-02	Customer License: 9632	Vehicle id: 632698

Searching with customer information.

☒ Search by costumer Information:

11 mahmoud96325@gmail.co abdalla ahmed paris france
03/01/2000 

Results.

license number: 11	Email: mahmoud96325@gmail.com	First name: abdalla	Last name: ahmed	City paris	Country: france	Birth date: 2000-03-01
license number: 12345	Email: mahmoud34@gmail.com	First name: ahmed	Last name: ahmed	City cairo	Country: egypt	Birth date: 1988-12-09
license number: 1234567	Email: mahmoud4215@gmail.com	First name: mohamed	Last name: ahmed	City luxor	Country: egypt	Birth date: 1987-07-03
license number: 12354567	Email: mahmoud467215@gmail.com	First name: mohamed	Last name: ahmed	City luxor	Country: egypt	Birth date: 1987-07-03
license number: 1245	Email: mahmoud@gmail.com	First name: mahmoud	Last name: ahmed	City alex	Country: egypt	Birth date: 1998-12-09
license number: 131	Email: mahmoud961325@gmail.com	First name: abdalla	Last name: ahmed	City paris	Country: france	Birth date: 2000-03-01
license number: 13631	Email: mahmoud961324125@gmail.com	First name: abdalla	Last name: ahmed	City paris	Country: france	Birth date: 2000-03-01

Searching for license number 11.

Search Results

license number: 11	Email: mahmoud96325@gmail.com	First name: abdalla	Last name: ahmed	City paris	Country: france	Birth date: 2000-03-01
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1]All info Reports.

Report																		
Reserve date	Pickup date	return date	Plate ID	Car daily price	Car model	Car color	Car line	Motor	Brand	Car status	Customer first name	Customer last name	Customer Email	Customer Pass	License	Country	City	Birth date
2022-12-01	2022-12-01	2022-12-27	12345	300	2008	blue	basic	gas	BMW	active	mahmoud	ahmed	mahmoud@gmail.com	mahmoud	1245-555-3333	egypt	alex	1998-12-09
2022-05-02	2022-09-02	2022-09-25	25432	200	2022	red	basic	electric	merc	rented	ahmed	ahmed	mahmoud34@gmail.com	mahmoud	1234-555-3333	egypt	cairo	1988-12-09
2022-02-02	2022-11-02	2022-11-24	55554	100000	2010	red	sport	hybrid	Hyundai	active	abdalla	ahmed	mahmoud961325@gmail.com	mohamed	1316-654-9888	france	paris	2000-03-01
2022-03-02	2022-08-02	2022-08-24	21536	4500000	2020	black	sport	electric	FAIT	active	ahmed	ahmed	mahmoud314@gmail.com	mahmoud	1525-654-9878	egypt	cairo	1970-12-09
2022-01-02	2022-02-02	2022-02-23	12345	300	2008	blue	basic	gas	BMW	active	ahmed	ahmed	abdalla123@gmail.com	abdalla	1457-564-8888	egypt	tanta	1958-11-07
2022-02-02	2022-06-03	2022-06-25	63254	1000000	2010	red	basic	hybrid	Hyundai	active	ahmed	ahmed	islam@gmail.com	islam	9632-963-7415	egypt	rashid	2001-03-01
2022-03-02	2022-06-04	2022-10-26	63259	200000	2008	blue	top	gas	LADA	active	gaber	ahmed	kaled@gmail.com	kaled	7529-111-2222	egypt	matrouh	1987-05-09
2022-04-02	2022-07-02	2022-07-27	214536	4500000	2020	black	top	electric	FAIT	active	mahmoud	ahmed	mahmoud@gmail.com	mahmoud	1245-555-3333	egypt	alex	1998-12-09
2022-01-02	2022-01-08	2022-02-22	25432	200	2022	red	basic	electric	merc	rented	saed	ahmed	mahmoud31414@gmail.com	mahmoud	8543-662-5554	egypt	cairo	1978-10-08
															1734			

2]All reservation of a cars.

All reservations of a car									
reservation date	vehicle ID	plate ID	daily price	year	color	status	line	motor	model
2022-12-01	254368	25432	200	2022	red	rented	basic	electric	merc
2022-05-02	254368	25432	200	2022	red	rented	basic	electric	merc
2022-02-02	254368	25432	200	2022	red	rented	basic	electric	merc
2022-03-02	254368	25432	200	2022	red	rented	basic	electric	merc
2022-01-02	254368	25432	200	2022	red	rented	basic	electric	merc
2022-04-02	254368	25432	200	2022	red	rented	basic	electric	merc
2022-12-01	254370	25432	200	2022	red	rented	basic	electric	merc
2022-05-02	254370	25432	200	2022	red	rented	basic	electric	merc
2022-02-02	254370	25432	200	2022	red	rented	basic	electric	merc
2022-03-02	254370	25432	200	2022	red	rented	basic	electric	merc
2022-01-02	254370	25432	200	2022	red	rented	basic	electric	merc
2022-04-02	254370	25432	200	2022	red	rented	basic	electric	merc

3] Status of all cars.

Status of all cars	
plate number	status
21536	active
63259	active

4]All reservations of customers

All reservations of a customer

license number	email	first name	last name	city	country	birth date	plate number	model
1316-654-9888	mahmoud961325@gmail.com	abdalla	ahmed	paris	france	2000-03-01	55554	Hyundai
1316-654-9888	mahmoud961325@gmail.com	abdalla	ahmed	paris	france	2000-03-01	214536	FAIT

:

5] Payments history

payments history

payment date	amount of payment
2022-12-19	4500

You can find the whole project on

<https://github.com/Islam231bi/Car-Rental-System.git>