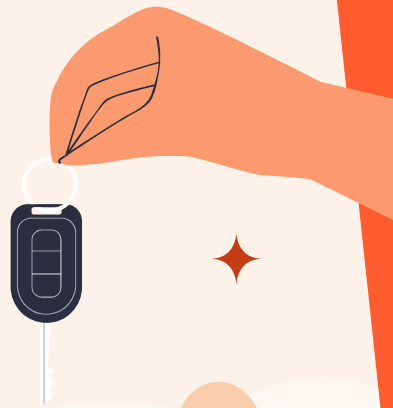
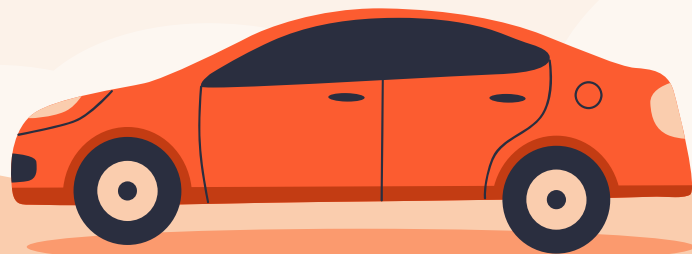


# World wheels

Drive your dreams-luxury cars at your fingertips



# Team members

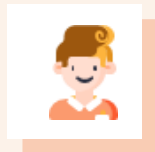
ID	Name
<b>2305049</b>	Youssef Hassan Youssef
<b>2305048</b>	Youssef Ahmed Abd Elmola
<b>2305073</b>	Mina Ayman Mossad

An illustration featuring two hands, one light orange and one brown, exchanging a dark blue car key. In the center, a white square box with an orange border contains the number '01' in orange. The background is a light beige color with stylized white clouds, small orange stars, and two orange trees on a rolling orange hill at the bottom. The entire scene is framed by orange borders on the left and right sides.

01

# **DATA DEFINITION LANGUAGE**

# DDL



## users

```
CREATE TABLE users (  
    user_id INT PRIMARY KEY,  
    username VARCHAR(200) NOT NULL,  
    email VARCHAR(200) UNIQUE,  
    password VARCHAR(200) NOT NULL,  
    phone_number VARCHAR(200) NOT NULL UNIQUE ,  
    address text NOT NULL,  
    role ENUM("User","Admin") DEFAULT 'User' NOT NULL,  
    sid VARCHAR(200) NOT NULL  
);
```



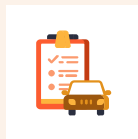
## cars

```
CREATE TABLE cars(  
    car_id INT PRIMARY KEY,  
    model VARCHAR (250) NOT NULL,  
    year INT NOT NULL,  
    plate_id VARCHAR(100) UNIQUE,  
    status ENUM("Available", "Not Available"),  
    office_id INT,  
    image_url TEXT NOT NULL,  
    car_price INT NOT NULL,  
    category VARCHAR(100) NOT NULL,  
    seller_id INT,  
    FOREIGN KEY (seller_id) references users(user_id),  
    FOREIGN KEY (office_id) references office(office_id)  
);
```



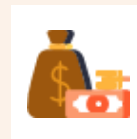
## office

```
CREATE TABLE office (  
  office_id INT auto_increment PRIMARY KEY,  
  office_contry VARCHAR (100) NOT NULL,  
  office_location text NOT NULL  
);
```



## Reservation

```
CREATE TABLE Reservation (  
  reservation_id INT auto_increment,  
  reservation_date DATE NOT NULL,  
  pickup_date DATE NOT NULL,  
  return_date DATE NOT NULL,  
  payment_status ENUM("Paid", "Not paid", "Pay on site") DEFAULT "Not paid",  
  user_id INT,  
  car_id INT,  
  PRIMARY KEY (reservation_id,user_id,car_id),  
  FOREIGN KEY (user_id) references users(user_id),  
  FOREIGN KEY (car_id) references Car(car_id)  
);
```



## Payment

```
CREATE TABLE Payment (  
  payment_id INT PRIMARY KEY,  
  payment_date DATE,  
  payment_amount INT,  
  method ENUM ("Cash", "VISA") DEFAULT "Cash" NOT NULL,  
  reservation_id INT,  
  FOREIGN KEY (reservation_id) references reservation(reservation_id)  
);
```

An illustration featuring two hands. The hand on the left is light orange and holds a dark blue car key. The hand on the right is dark brown and is reaching out. In the center, a white square with an orange border contains the number '02' in orange. The background is a light beige color with stylized white clouds, small orange stars, and two orange trees on a rolling orange hill at the bottom. The entire scene is framed by orange borders on the left and right sides.

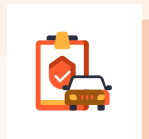
02

# **IMPLEMENTED FEATURES**



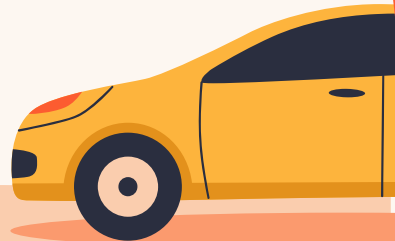
## **USER registration**

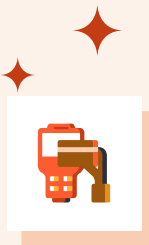
Users can create accounts securely, as their passwords are encrypted to ensure data protection. Renting a car requires users to log in, adding an extra layer of security. Each user is assigned a single role, which is 'User,' as the platform designates only one administrator to maintain system safety and prevent unauthorized access.



## **Reservation table acts as junction table**

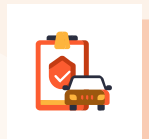
Since the reservation table connects users to payments, it ensures that payments cannot be made without a corresponding reservation, preventing errors such as paying without saving the reservation.





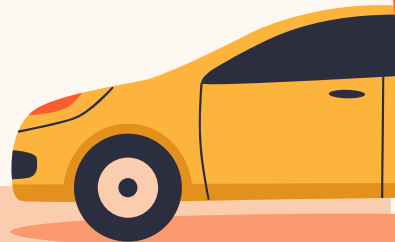
## **Full control over cars management**

We have full control over a car, as we can add, edit, delete, and rent cars. The database structure of the car allows for seamless changes to the table, ensuring no errors occur like referential integrity errors when modifying car details.



## **Email Confirmation After Rental for Verification**

To confirm the user's car rental, an email is automatically sent upon completion of the purchase, leveraging the SMTP protocol for verification.







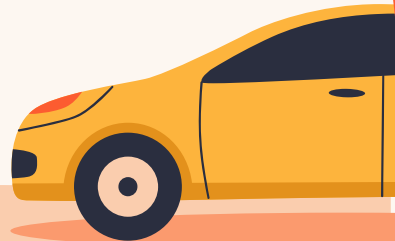
## Stripe API for secure payment

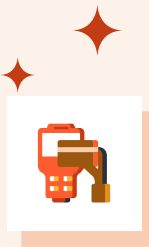
To enhance the safety and user experience, the Stripe API is integrated for secure payment processing. Stripe provides a reliable, PCI-compliant payment gateway, ensuring that user payment information is securely handled. By using Stripe's easy-to-integrate form, users can make payments through a smooth and intuitive interface, offering a seamless checkout experience. This integration also supports multiple payment methods, including credit/debit cards, ensuring flexibility for users while maintaining the highest standards of security.



## Rent car function efficiency

This function effectively uses the database to retrieve car, seller, and office details, ensuring the correct car is selected for rental. It fetches data from the Car, User, and Office tables to display relevant information, while validating dates to prevent errors. The rental cost is dynamically calculated using data from the Car and Office tables. Additionally, session management ensures that reservation details are stored temporarily, providing a seamless and consistent user experience throughout the rental and payment process. These database-driven features ensure data integrity and smooth functionality.





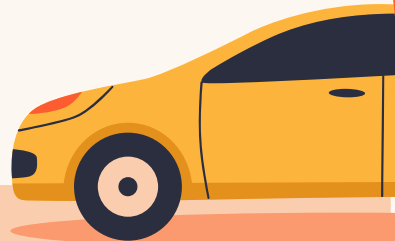
## Car Model Search Functionality

This function allows users to search for car models using the LIKE operator with the % wildcard for partial matches. The query is case-insensitive, enabling flexible searches in the Car table. The results are then displayed on the search.html page.



## Category-Based Car Filtering

This function filters and displays cars based on a specific category. When a user navigates to a URL with a category (e.g., /category/suv), the function retrieves all cars from the Car table that match the given category using (**WHERE cars.category = category;**). The filtered cars are then passed to the category\_items.html template for display. This functionality allows users to view cars that belong to a particular category, providing a more targeted browsing experience.

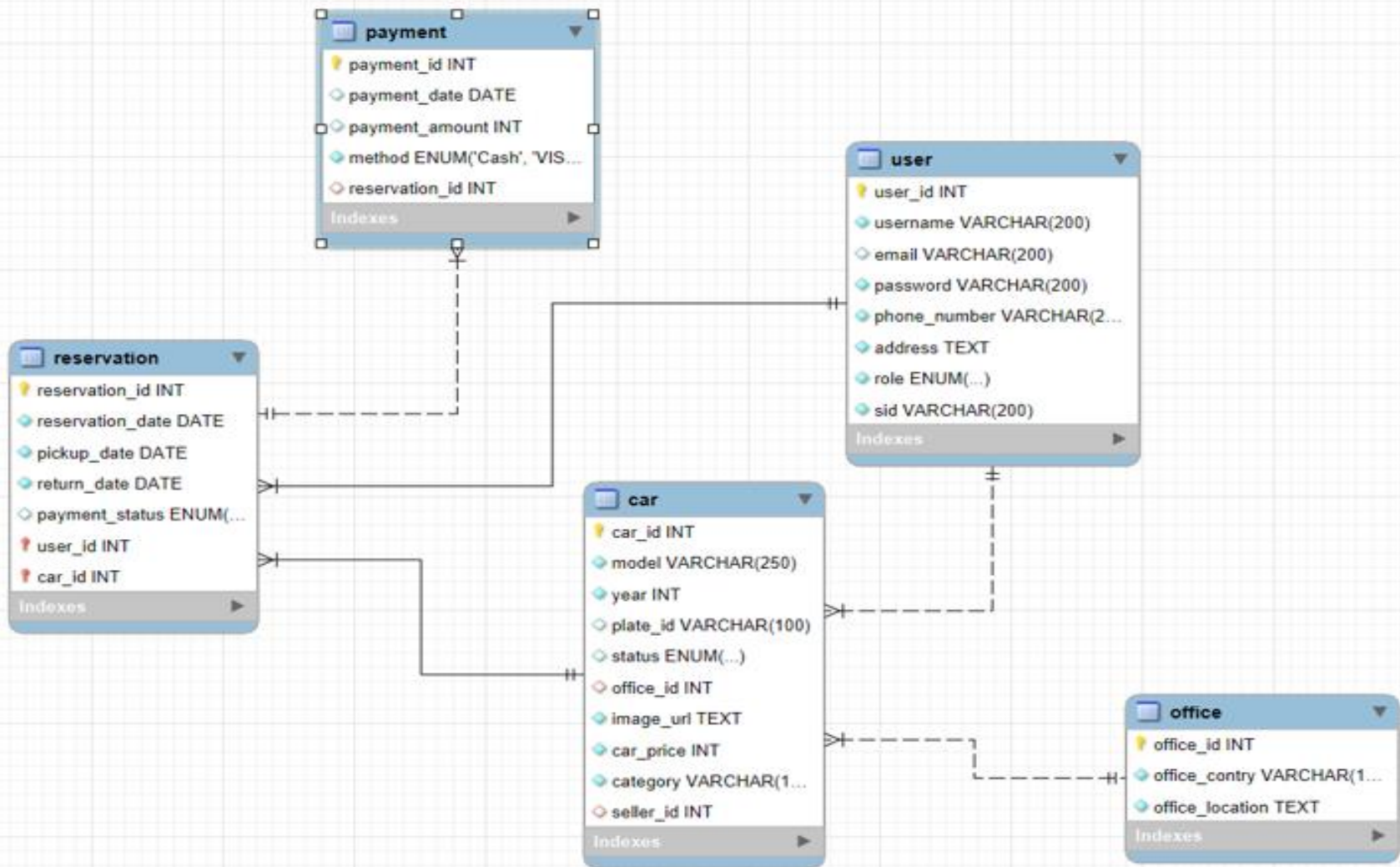


An illustration featuring two hands. The hand on the left is light orange and holds a dark blue car key. The hand on the right is dark brown and is reaching out. In the center, a white square with an orange border contains the number '03' in orange. The background is a light beige color with stylized white clouds, small orange four-pointed stars, and a landscape at the bottom with rolling hills and two orange trees. The entire scene is framed by vertical orange bars on the left and right sides.

03

# DIAGRAMS





An illustration of an orange hand holding a black car key with a silver ring. The background is a warm, orange-toned landscape with stylized clouds, trees, and hills. The word "Thanks" is written in large, bold, orange letters on a white rectangular background.

# Thanks

WORLD WHEELS TEAM