Car Rental Service

This project is a simple car rental service application built with Python. It enables users to register, log in, manage car inventories, and handle car rentals, providing a functional interface for both customers and administrators.

Getting Started

Prerequisites

To begin, ensure Python is installed on your computer. You will also need to install the following packages:

- mysql-connector-python: For connecting to MySQL databases.
- bcrypt: Secures passwords
- python-dotenv: For loading environment variables from a .env file.

Installation

1. Clone the repository:

git clone https://github.com/EdiBulb/CarRentalService.git

2. Navigate to the project directory:

cd CarRentalService

3. Install the required packages:

pip install -r requirements.txt

Environment Setup

Adjust the .env file in the root directory to set up your database connection:

DB_HOST=localhost

DB_USER=yourusername

DB_PASSWORD=yourpassword

DB_NAME=car_rental_system

The current env file is set as follows: DB_USER = root, DB_PASSWORD = YOOBEE, DB_NAME = car_rental_system. Replace yourusername and yourpassword with your MySQL credentials.

Running the Application

To start the application, run the following command in the terminal at the project's root directory:

python main.py

You will be prompted with the following options in your terminal:

1. Sign Up

2. Log In

3. Exit

Choose an option:

Follow the instructions displayed on your screen to navigate through the application.

Features

- User registration and login: A secure system to register and authenticate users.
- Admin and customer role management: Differentiated access and functionalities depending on the user role.
- Car inventory management: Add, update, and remove cars from the inventory.
- Rental operations: Includes creating, approving, and completing rentals.

Upgrades

The basic required functionalities have been implemented. Additionally, some upgraded features have been added:

1. A return functionality has been implemented for customers to mark a car as "returned" once they finish using it. Returned cars are no longer shown in the rental list.
2. Password hashing has been implemented to enhance security.

Maintenance Plan

1. A feature will be added to throw an error if a customer tries to input a rental start date that is before the current date.
2. Another enhancement will be implemented to throw an error if a customer attempts to enter rental periods that do not meet the min_period and max_period constraints set by the Admin.
3. Add a feature on the Admin page to view all vehicles that have been rented to customers so far.

Known Bugs and Issues

- There are no known bugs at the time of release. Any future issues discovered will be listed here.

Contributing

I encourage contributions! If you're looking to make improvements, please follow these steps:

1. Fork the repository.
2. Create a new branch: git checkout -b feature-branch

3. Make changes and run tests.
4. Commit your changes: git commit -am 'Add some feature'
5. Push to the branch: git push origin feature-branch
6. Create a new Pull Request.

License

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Credit

This system was developed by [Byeonghun Kang]. For more information or support, please contact [gnsqud24@naver.com].