

Car Rental System

This is a Python-based command-line user interface for managing car rental operations. The system follows object-oriented design principles and implements the Singleton pattern to ensure system uniqueness.

No manual configurations are needed to run the project, requirements.txt is attached.

How to run:

1. Ensure Python 3.8 or higher is installed, tested on Python 3.13.5.
2. Install required dependencies: `pip install -r requirements.txt`.
3. Run the main file from the command line: `python main.py`.
4. Follow the instructions in the console to operate the system.

All relevant files included:

- `main.py`: Main entry point of the application, handling the user interface and menu interactions.
- `system.py`: Core business logic, including management of users, vehicles, and rentals.
- `models.py`: Defines all classes (User, Admin, Customer, Car, Rental), demonstrating object-oriented design.
- `utilities.py`: Contains various utility functions, such as input validation and screen clearing.
- `database.py`: Provides an interface for all database operations using SQLite.
- `seed_cars.csv`: CSV file containing initial vehicle data.
- `requirements.txt`: Lists all project dependencies.

NOTE:

A default administrator is created when the project starts. Default credentials:
Username: admin Password: admin123

A test user is created when doing test runs. Test user credentials: Username: test Password: test

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Test runs show no known bugs at the moment.

Credits

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