

# Car Rental System — User Documentation

## Overview

This document provides user-facing instructions for running the Car Rental System (CLI) and explains the main features for Customers and Admins.

## Quick Start

```
> python3 -m venv .venv
> source .venv/bin/activate # Windows: .venv\Scripts\activate
> pip install -r requirements.txt
> python main.py
```

## Seeding Sample Data

From the main menu choose “Seed sample data” once (or run python seed.py). This creates sample users (admin & customers), vehicles, and demo rentals.

## Key Features

- Add/list/search **Vehicles** (EconomyCar, SUV, Truck via inheritance from `Vehicle``)
- Add/list **Customers**
- Create **Rentals**, return vehicles, view active/finished rentals
- **SQLite** persistence (database file `car_rental.db`` auto-created on first run)
- **Strategy Pattern** for pricing (standard, SUV premium, weekend discount)
- Robust validation: date parsing, input validation, overlapping-rental checks, availability
- Clear separation of concerns: `models`, repository`, services`, pricing`, cli`, utils``

## Roles & Logins

Role	How to access	Capabilities
Admin	Register, then set role via DB or seed	Add/Update/Delete cars, approve/reject rentals, list users
Customer	Register via menu / use seeded user	Browse & book vehicles, view my rentals, cancel pending requests

## Navigation

Use numeric menu selections. Press Enter to confirm. Input is validated and errors are explained with prompts to retry.