

CAR RENTAL SYSTEM

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1.Introduction

Welcome to the Car Rental System! This documentation is meant for users of the program. This system is designed to help manage car rentals, customer information, and vehicle inventory efficiently. It offers a user-friendly console-based interface to facilitate these operations.

2.Getting Started

2.1 Installation

1. Download and Unzip:

- Download the program package (zip file) from the provided source.
- Unzip the file to your desired directory.

2. Run the Program:

- Navigate to the unzipped directory.
- Execute the program by running the executable file provided in the package.

2.2 Logging In

When you start the program, you will be prompted to log in. Use the default credentials for the first login:

- **Username:** admin
- **Password:** 1234

It is recommended to change the default admin password after your first login.

3.User Interface

The Car Rental System features a console-based interface with three main sections:

- **Header:** Displays the title indicating the current section of the program.
- **Content Area:** Shows the main content, which changes based on user selections and tasks.
- **Footer:** Displays status messages and prompts for further actions.

3.1 Navigation

Users interact with the program by selecting numbered options from the displayed menus. The interface operates in two primary modes:

- **Browsing Mode:** Navigate through menus by entering the corresponding number of your choice (e.g., 1 for "Cars", 2 for "Customers").
- **Input Mode:** When adding new records or performing specific operations, enter the required information when prompted.

4. Core Functionalities

Cars

1. **Show Available Cars:** Displays a list of cars that are currently available for rent.
2. **Show Rented Cars:** Displays a list of cars that are currently rented out.
3. **Show Cars in Service:** Displays a list of cars that are under maintenance.
4. **Show Permanently Unavailable Cars:** Displays a list of cars that are no longer available for rent.

Admin Only:

- **Add New Car:** Adds a new car to the system.
- **Move a Car:** Moves a car between different status categories (e.g., available, rented, in service).

Customers

1. **Show Customers:** Displays a list of all customers in the system.
2. **Add a Customer:** Adds a new customer to the system.

Contracts

1. **Show Active Contracts:** Displays a list of all active rental contracts.
2. **New Contract:** Creates a new rental contract by entering the required details.
3. **End Active Contract:** Concludes a rental contract and updates the car's status.

Admin Only:

- **Show Archived Contracts:** Views contracts that have been completed and archived.

User Management (Admin Only)

1. **Add a User:** Adds a new user with a specific status (admin or non-admin).

5.Step-by-Step Instructions

Adding a New Car (Admin Only)

1. Select "Add New Car" from the Cars menu.
2. Enter the required details for the new car:
 - Make
 - Model
 - Year
 - Color
 - License Plate
 - Motorization
 - Gearbox
 - Number of Seats
 - Cost Per Hour
3. The car will be added to the appropriate list based on its initial status.

Creating a New Contract

1. Select "New Contract" from the Contracts menu.
2. Choose a car from the list of available cars by entering its license plate number.
3. Choose a customer from the list by entering their phone number.
4. Enter the due date and time for the rental.
5. The system will create a new contract, update the car's status to rented, and save the contract details.

Ending a Contract

1. Select "End Active Contract" from the Contracts menu.
2. Choose the contract to end by selecting from the list of active contracts and writing it's name.
3. The system will conclude the rental, update the car's status, and archive the contract.

Adding a New User (Admin Only)

1. Select "Add a User" from the User Management menu.
2. Enter the new user's details:
 - Username

- Password
 - Admin Status (1 for admin, 0 for non-admin)
3. The new user will be added to the system with the specified access level.