

Vehicle Rental System - User Manual

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1. Introduction

The **Vehicle Rental System** is a Java-based desktop application designed to facilitate the management of vehicle rentals, including user accounts, vehicle inventory, rentals, payments, and locations. This manual provides a detailed guide on how to install, configure, and use the system effectively.

2. System Requirements

- **Operating System:** Windows 10/11, macOS, or Linux
- **Java Version:** JDK 17 or later
- **Database:** Oracle XE 21c
- **IDE:** VSCode with Java & Gradle extensions
- **Gradle:** Version 8 or later

3. Installation Guide

3.1 Clone the Repository

```
git clone https://github.com/Prashanth2Github/Vehicle-Rental-System.git
```

```
cd Vehicle-Rental-System
```

3.2 Install Dependencies

Ensure Java and Gradle are installed:

```
java -version
```

```
gradle -v
```

3.3 Setup Database

1. Install Oracle XE 21c.
2. Run the SQL script in resources/database.sql to create the required tables.
3. Configure config.properties with the correct database credentials.

3.4 Run the Application

```
gradle run
```

4. Getting Started

Upon launching the application, the **Main Page** will appear, allowing users to navigate through different management modules.

5. Features and Usage

5.1 User Management

- **Add User:** Enter user details and save.
- **Update User:** Select a user and modify details.
- **Delete User:** Remove an existing user.

5.2 Vehicle Management

- **Add Vehicle:** Register new vehicles.
- **Update Vehicle:** Edit existing vehicle information.
- **Delete Vehicle:** Remove a vehicle from the system.

5.3 Rental Processing

- **Rent a Vehicle:** Select a vehicle and user to create a rental.
- **Update Rental:** Modify rental details.
- **Delete Rental:** Cancel an active rental.

5.4 Payment Handling

- **Make Payment:** Process payments for rentals.
- **View Payment History:** Check transaction records.

5.5 Location Management

- **Add Location:** Define rental locations.
- **Update Location:** Modify location details.
- **Delete Location:** Remove unused locations.

6. Troubleshooting

Common Issues

- **Database Connection Error:** Verify database credentials in config.properties.
- **Application Won't Start:** Ensure Java and Gradle are installed correctly.
- **UI Not Displaying Properly:** Check VSCode Java extensions.

7. Contact Support

For support, contact:

- **Email:** bonkuruprashanth05@gmail.com
- **GitHub Issues:** <https://github.com/Prashanth2Github/Vehicle-Rental-System/issues>