

# DriftRent - Car Rental Management System

## Overview

DriftRent is a Spring Boot-based web application that facilitates car rental management. The system allows users to create, manage, and search for car rental advertisements.

## Technical Stack

- **Backend Framework:** Spring Boot 3.4.0
- **Database:** MySQL
- **Build Tool:** Maven
- **Java Version:** 23
- **Dependencies:**
  - Spring Data JPA
  - Spring Web
  - MySQL Connector
  - Lombok
  - Spring Boot Test

## Core Features

- User Management
- Car Management
- Advertisement Management
- Search and Filter Functionality

# API Documentation

## 1. User Management (/user)

- Endpoints:

- GET /user/email/{email} - Get user by email
- POST /user/create - Create new user
- DELETE /user/delete/{email} - Delete user
- POST /user/login - User login
- PUT /user/update - Update user details

## 2. Car Management (/car)

- Endpoints:

- POST /car/create - Create new car
- DELETE /car/delete - Delete car
- PUT /car/update - Update car details
- GET /car/all - Get all cars with optional filters

## 3. Advertisement Management (/ad)

- Endpoints:

- GET /ad/id/{id} - Get ad by ID
- POST /ad/create - Create new ad
- DELETE /ad/delete/{id} - Delete ad
- PUT /ad/update - Update ad
- GET /ad/all - Get all ads
- GET /ad/filter - Filter ads based on criteria

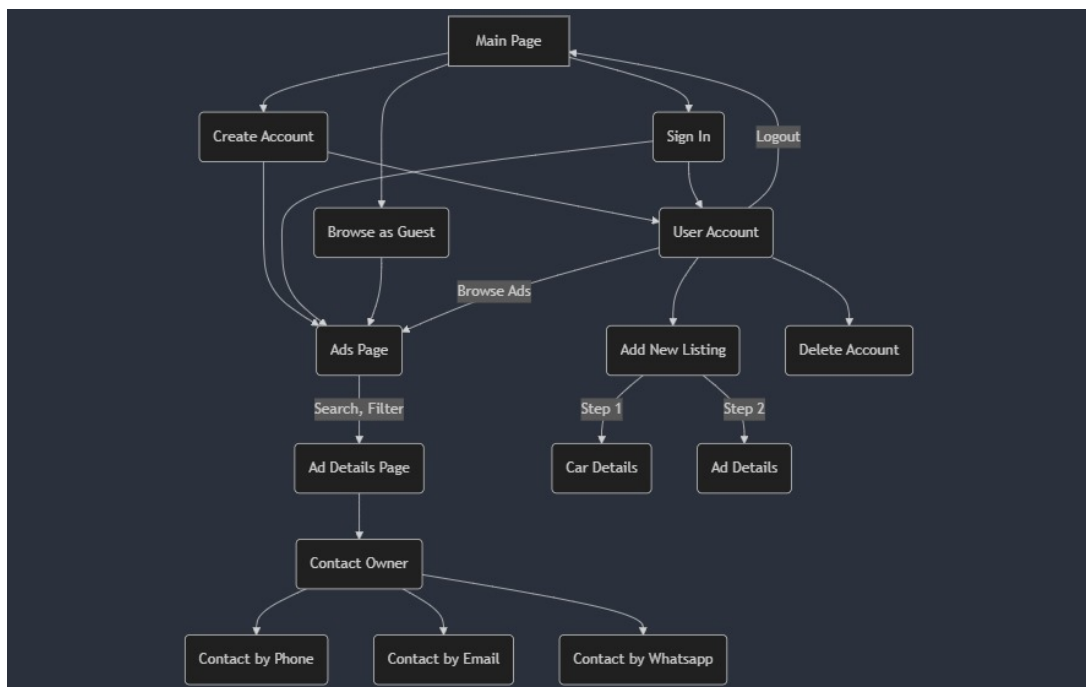


Figure 1: Use Case Diagram for DriftRent

