

Ride green

## Objective

To create a sustainable and community-oriented platform that promotes the sharing of eco-friendly transportation options, thereby reducing carbon emissions and fostering environmental responsibility.

## Problem Statement:

- ❑ Underutilized Resources: Many individuals own eco-friendly vehicles that are seldom used.
- ❑ Lack of Awareness: Potential users may not be aware of the availability of shared transportation options or how to access them.
- ❑ Community Engagement: There is a need for a centralized platform to foster collaboration and participation in sustainable transportation initiatives.
- ❑ Environmental Impact: Traditional transportation methods contribute significantly to greenhouse gas emissions and air pollution.

## Technical Stacks:

### ☐ Frontend:

- **Framework:** Spring Boot
- **Templating Engine:** Thymeleaf or JSP
- **CSS Framework:** Bootstrap or Materialize CSS
- **JavaScript Library:** jQuery or JavaScript (for additional features)

### ☐ Backend:

- **Language:** Java
- **Framework:** Spring Boot
- **ORM:** Hibernate or JPA
- **Database:** PostgreSQL or MySQL
- **Web Server:** Tomcat or Jetty

## Technical Stacks:

### ☐ **Mobile App:**

- **Framework:** React Native or Flutter (for cross-platform compatibility)
- **Backend Integration:** RESTful API using Spring Boot

### ☐ **Additional Technologies:**

- **Version Control:** Git
- **Build Tool:** Maven or Gradle
- **Continuous Integration/Continuous Deployment (CI/CD):** Jenkins or GitLab CI/CD

## Features:

### ☐ Admin Features:

- Transport Management: Add, edit, and remove transportation options.
- User Management: Create, update, and manage user profiles.
- Environmental Impact Tracking: Generate reports on carbon savings and user participation.

### ☐ User Features:

- Registration: Create a user profile and provide necessary details.
- Transport Sharing: List available transportation options and manage bookings.
- Transport Borrowing: Search for available options and request bookings.
- Tracking: Monitor personal carbon footprint and track eco-friendly miles.
- Notifications: Send alerts for available transportation options and environmental milestones.
- Community Forum: Facilitate discussions and knowledge sharing among users.
- Rewards and Incentives: Offer rewards or incentives for active participation and environmental contributions.