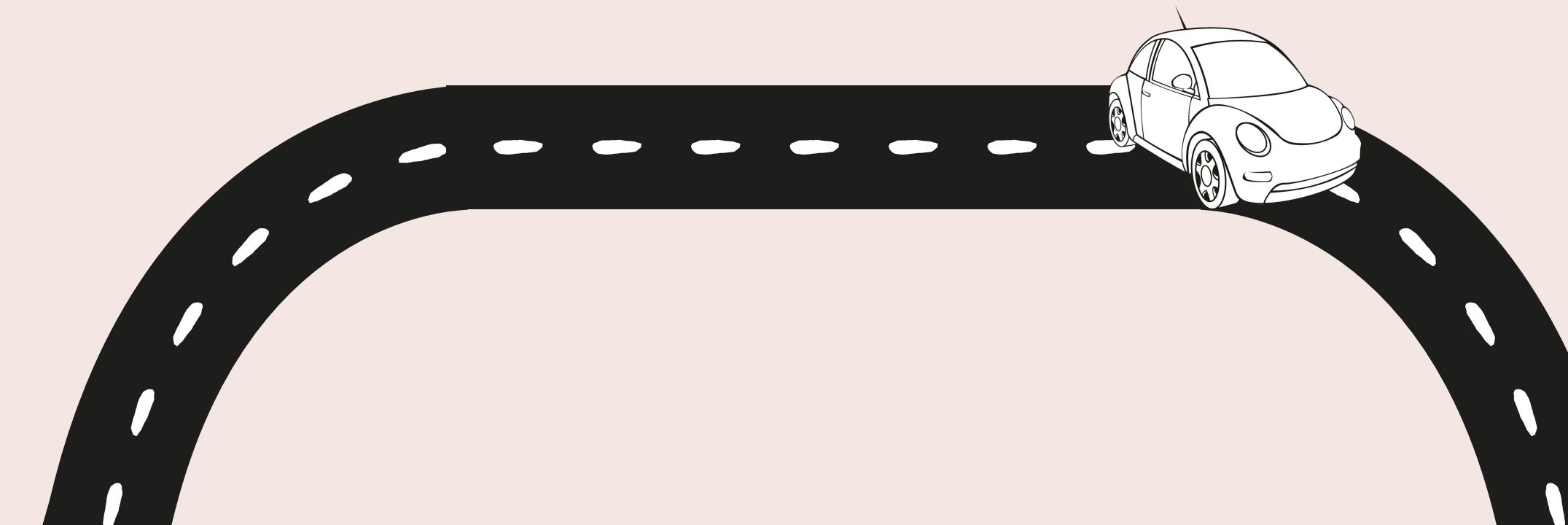
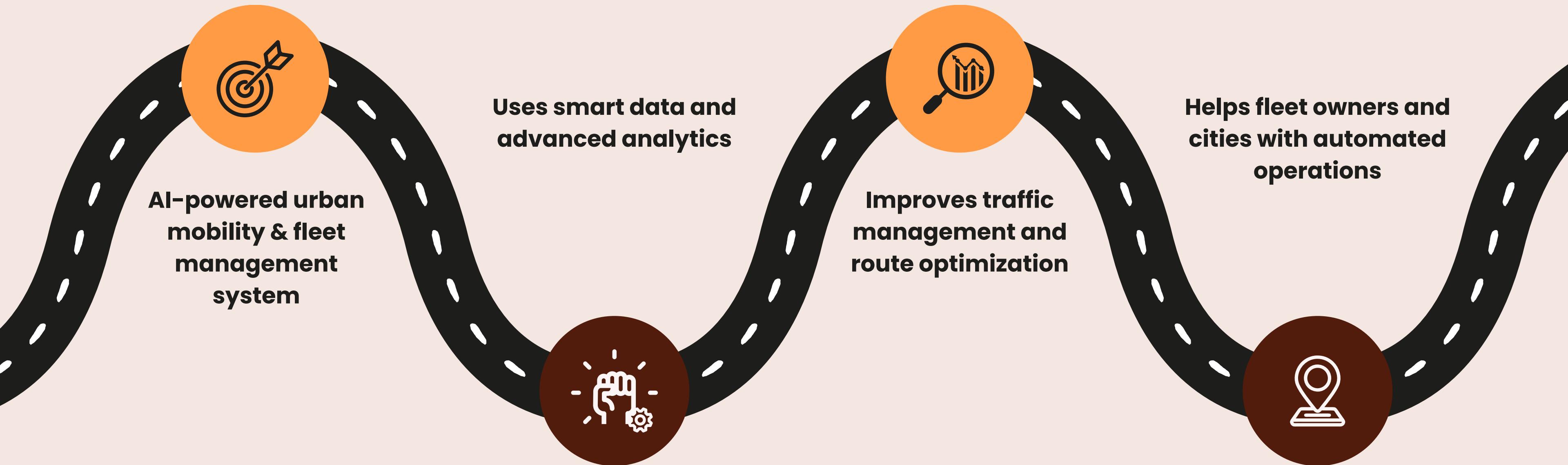
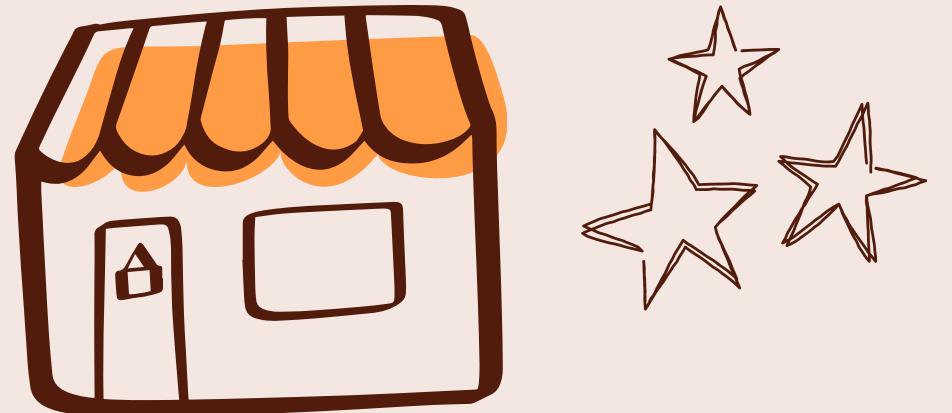




# NeuroFleetX – AI Powered Urban Mobility Optimization

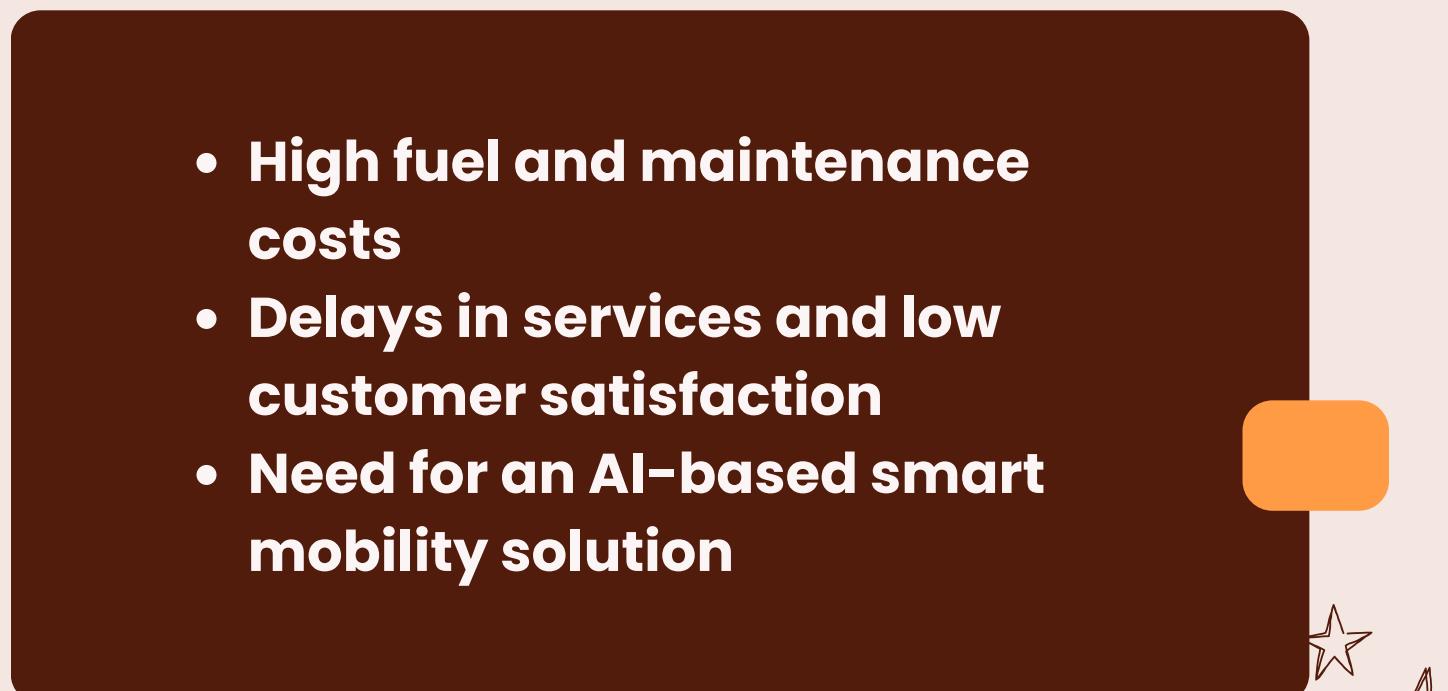


# Introduction

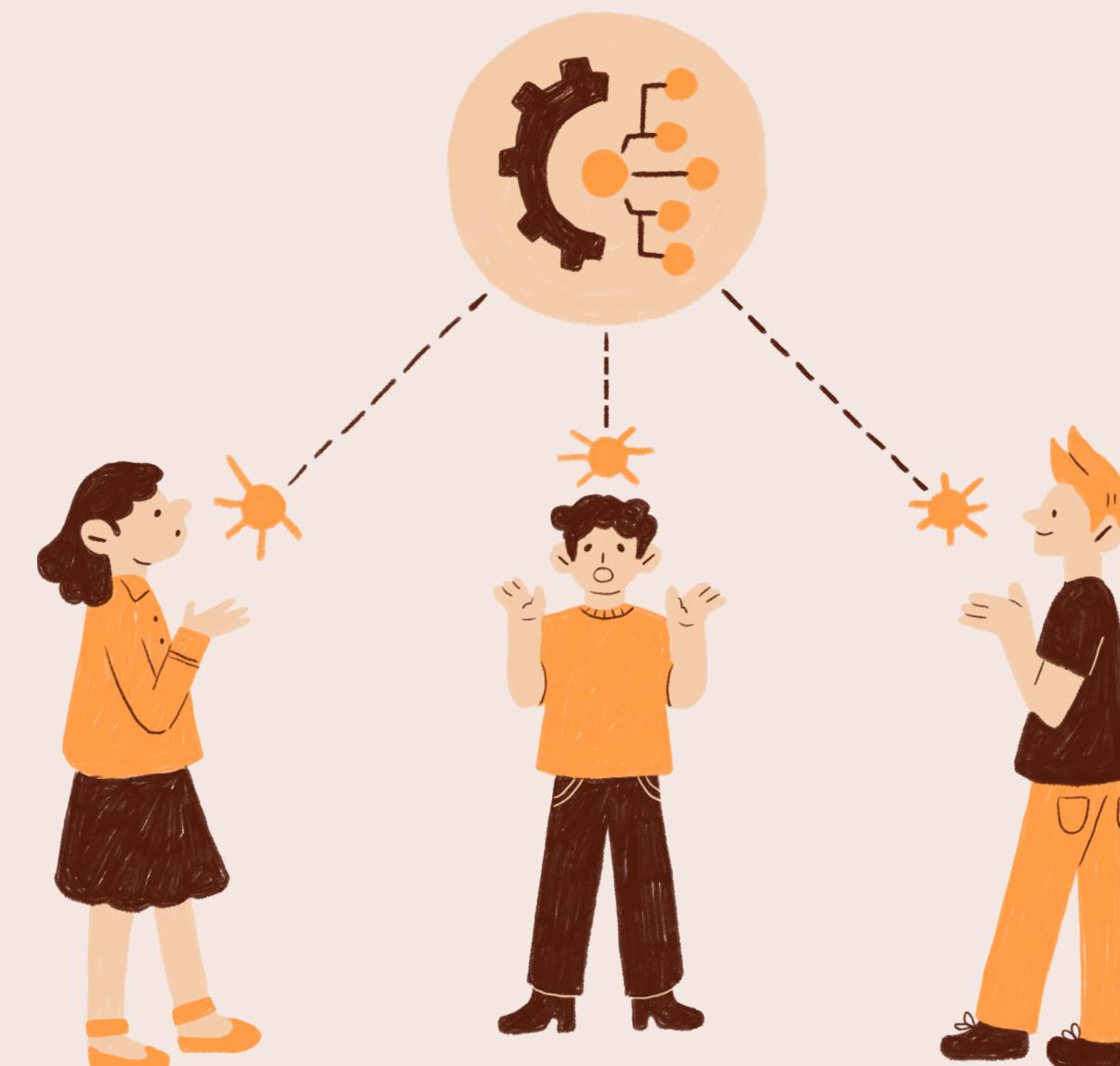




- Traffic congestion in rapidly growing cities
- Inefficient fleet utilization and unpredictable travel time
- Lack of real-time vehicle monitoring

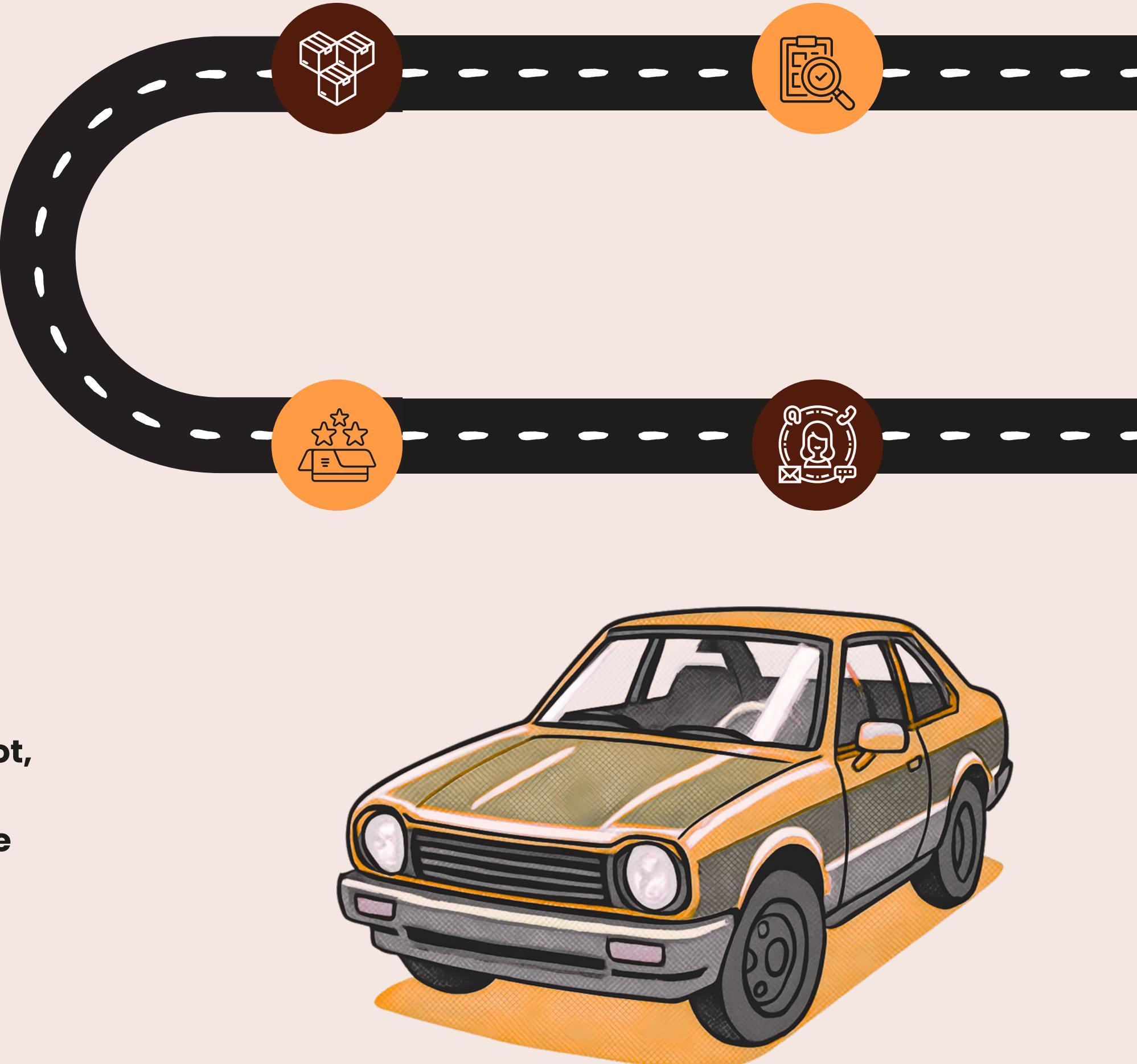


# Problem Statement



# Development Phase Overview

- Built core system structure and essential modules
- Developed backend REST APIs for authentication, vehicles, and bookings
- Ensured secure and structured data flow between modules
- Set up full-stack environment using React, Spring Boot, and MySQL
- Created reusable components, routing, and database schema
- Designed responsive UI for Dashboard, Vehicles, Bookings, and Maintenance



# Project Milestones

## Milestone 1 – Foundation Setup

- Learned Java, React, and Spring Boot basics
- Built initial login UI and practiced APIs
- Set up project environment

## Milestone 2 – Core Modules

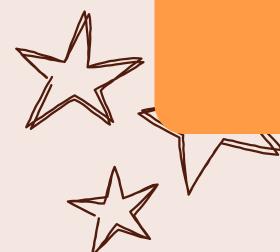
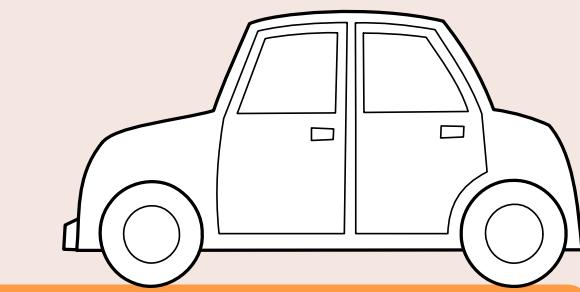
- Implemented authentication
- Developed dashboard, vehicles, and bookings
- Integrated frontend with backend

## Milestone 3 – Feature Enhancements

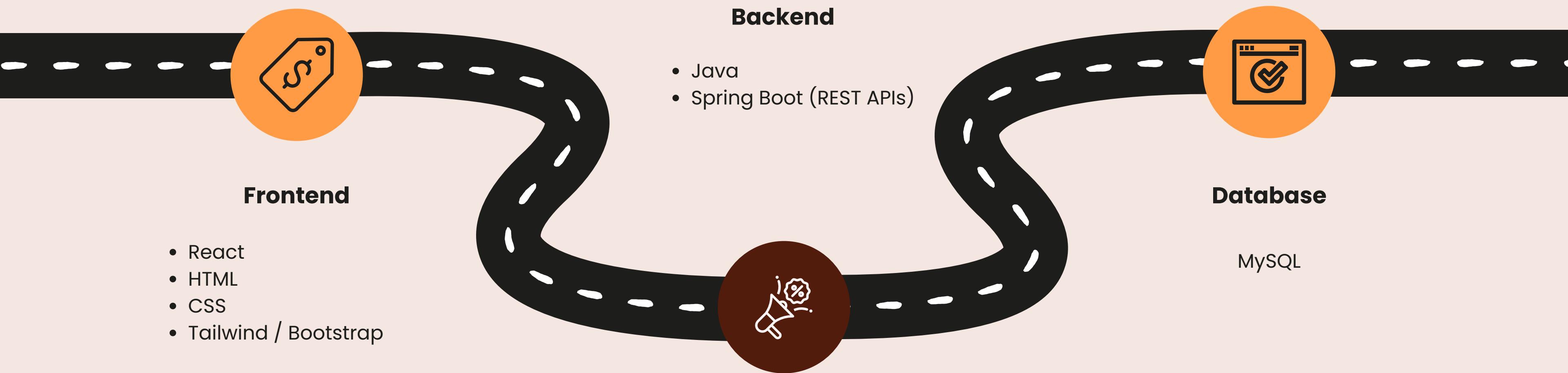
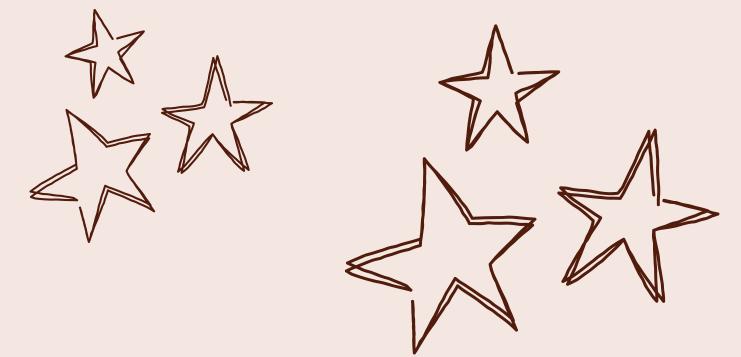
- Created Admin, Employee, and Customer dashboards
- Added KPIs, charts, filters, and reusable components

## Milestone 4 – Advanced Analytics

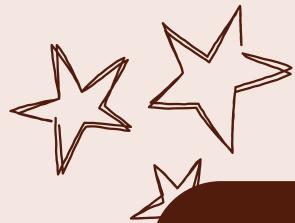
- Improved live tracking features
- Added booking validations
- Enhanced UI and user experience



# Tech Stack



# Future Scope



## Advanced Feature Enhancements

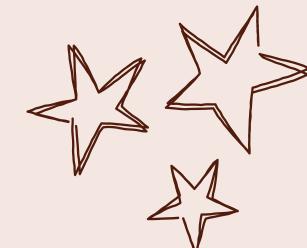
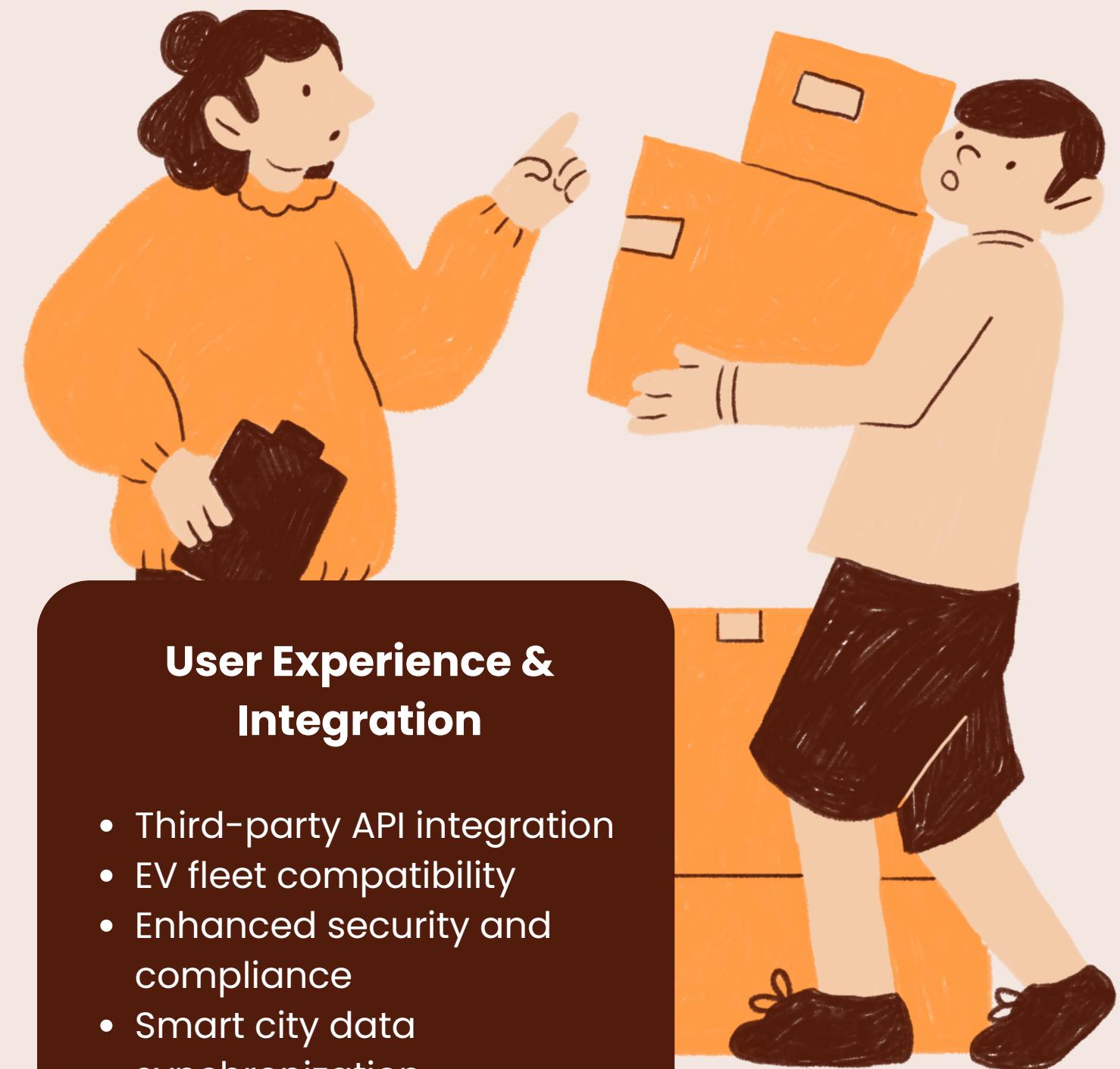
- AI-powered route optimization
- Dynamic pricing engine
- Driver behavior analytics

## Data & Intelligence Expansion

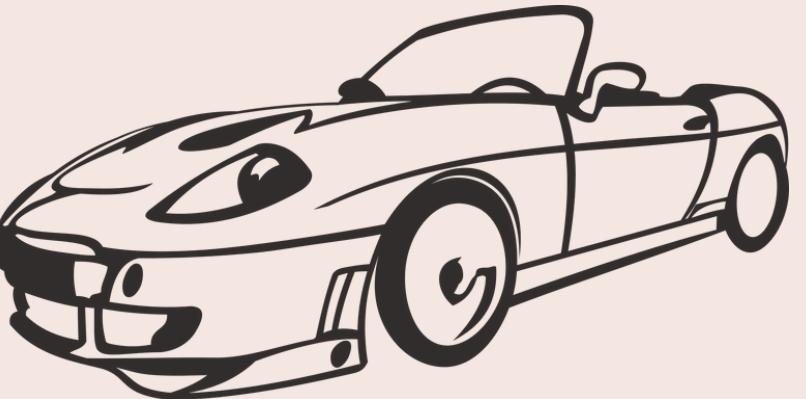
- Telematics-based maintenance alerts
- Carbon footprint tracking
- Smart forecasting dashboards

## User Experience & Integration

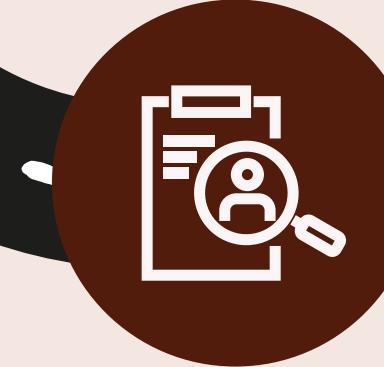
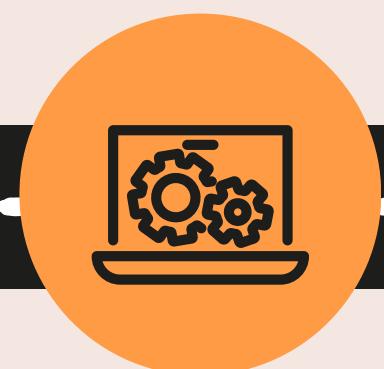
- Third-party API integration
- EV fleet compatibility
- Enhanced security and compliance
- Smart city data synchronization



# Conclusion



- Built a smart and scalable fleet management system
- Implemented role-based dashboards and intelligent booking
- Enabled real-time tracking and predictive analytics
- Focused on user-friendly and efficient operations
- Future-ready with scope for AI, automation, and data intelligence



# THANK YOU!

