GUJARAT VIDYAPITH

ODOO - HACKATHON 2026

Where Innovation Meets Technology

Mentor Name:

1. Bhavya Mehata

Team Members:

1. Hardik Makawana

Role: Database Architect - ER Diagram & Schema

2. Rutvi Dabhi

Role:Backend Developer - Business Logic & Rule Engine

3. Anuradha Prajapati
Role:Project Lead - Architecture & Strategy

4. Vrushti Bhanderi
Role:Frontend & Analytics Dev - UI & Reporting

FleetFlow

Modular Fleet & Logistics Management System

- ***Hackathon Project Presentation Document***

- FleetFlow is a centralized rule-based platform designed to optimize fleet lifecycle, automate dispatch validation, ensure driver compliance, and track operational financial performance.

1. Problem Statement

- Manual fleet logbooks and spreadsheets
- No real-time vehicle availability visibility
- Lack of compliance monitoring Inefficient
- maintenance tracking
- No automated cost & ROI analytics

2. FleetFlow Solution Overview

- Role-Based Secure Authentication
- Vehicle Registry & Asset
- Management Rule-Based Trip
- Dispatch System Maintenance &
- Service Automation Fuel & Expense
- Tracking Driver Compliance
- Monitoring Operational Analytics &
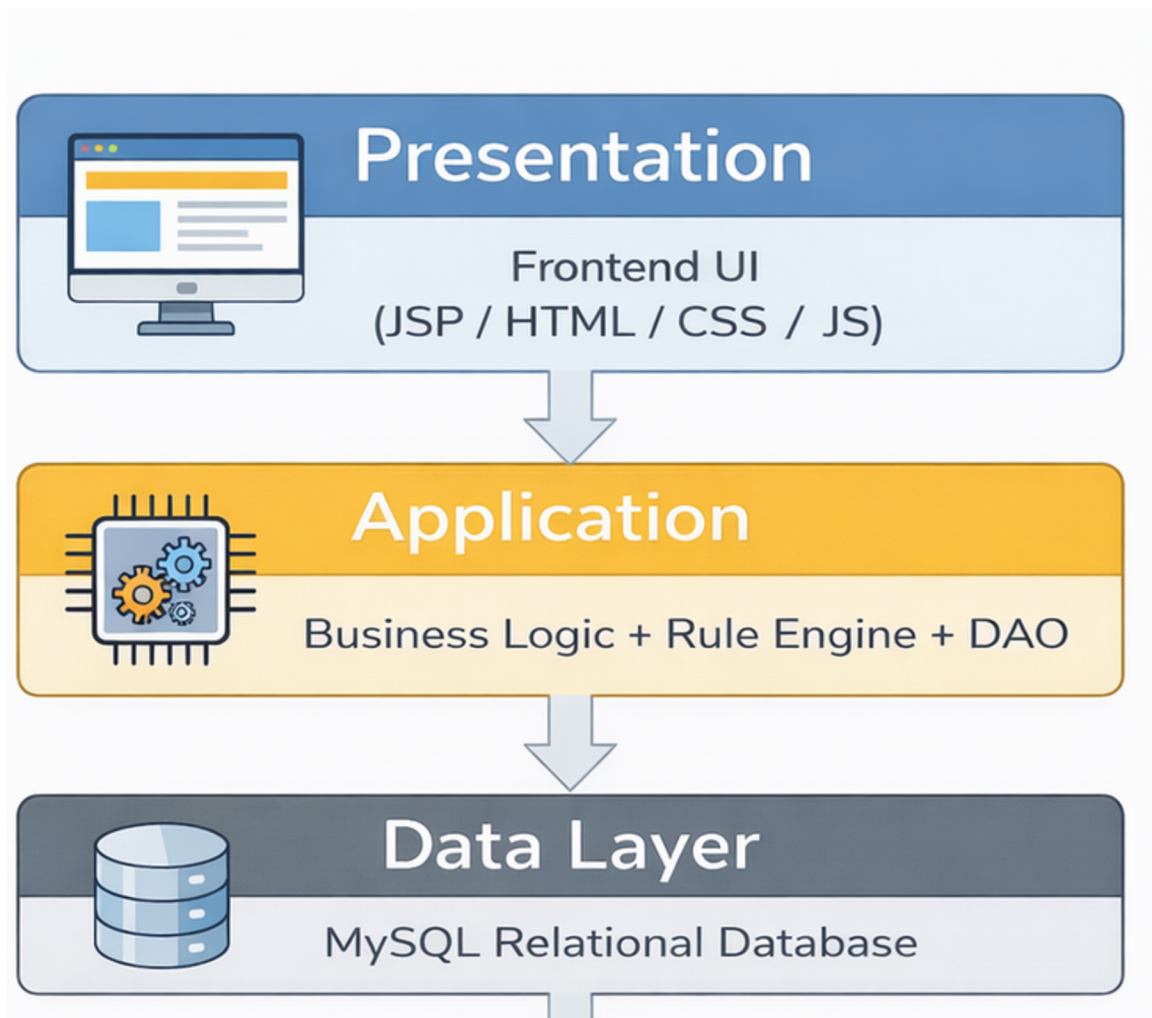 ROI Reports

3.Key Features

- Secure Role-Based Authentication
- Vehicle Registry & Asset Management
- Trip Dispatch with Validation Rules
- Maintenance & Service Logs
- Fuel & Expense Tracking
- Driver Compliance Monitoring
- Operational Analytics Dashboard

4.Technologies Used

- Frontend: JSP, HTML, CSS, JavaScript
- Backend: Java (Servlets, Business Logic Layer)
- Database: MySQL Relational Database
- Architecture: 3-Tier Architecture
- IDE: NetBeans
- Version Control: Git

5. System Architecture (3-Tier Model)

Presentation Layer ➡ Application Layer ➡ Data Layer

6. Innovation Highlights

- Automated dispatch validation engine Cargo
- capacity rule enforcement License expiry
- blocking logic Automatic status synchronization
- Fuel efficiency & ROI auto-calculation ERP-
- ready modular architecture

7.Conclusion

FleetFlow transforms traditional fleet operations into an intelligent, automated, and scalable digital ecosystem. It ensures operational control, financial transparency, driver compliance, and ERP-ready deployment for modern logistics management