

A CRM APPLICATION FOR PUBLIC TRANSPORT SYSTEM

DATE	20-06-2025
TEAM ID	LTVIP2025TMID29698
PROJECT NAME	A CRM Application for Public Transport Management System
MAXIMUM MARKS	

CHAPTER 4:- Project Design

Project Design for your **CRM Application for Public Transport Management System**, covering architectural structure, module breakdown, user interface design, and data flow.

4.1:- Existing System (Problem solution Fit)

Problems in the Existing System

- **Disjointed Communication:** No centralized platform for updates or feedback.
- **Low Responsiveness:** Complaints are often unresolved or delayed.
- **No Personalization:** All commuters treated the same, regardless of needs.
- **Poor Data Visibility:** Authorities lack actionable insights.
- **Limited Accessibility:** Elderly and differently-abled users face barriers.

Proposed CRM Solution: Problem-Solution Fit

Solution Fit

- **User-Centric Design:** Built around commuter needs and behaviors.
- **Operational Efficiency:** Streamlines support and feedback workflows.
- **Scalability:** Supports growing urban populations and transport networks.
- **Integration-Ready:** Connects with existing systems (ticketing, GPS, messaging).
- **Policy Alignment:** Supports smart city initiatives and digital governance.

4.2:- Proposed System (Proposed solution)

Proposed System for your **CRM Application for Public Transport Management**, outlining the solution architecture, key features, and how it improves upon the existing system.

Proposed Solution

1. Centralized Complaint & Feedback Management

- **Solution:** A digital platform where commuters can submit complaints, suggestions, and feedback.
- **Benefits:**
 - Transparent tracking of issue resolution
 - Faster response times
 - Improved accountability

2. Real-Time Communication System

- **Solution:** Push notifications, SMS, and email alerts for service disruptions, delays, and route changes.
- **Benefits:**
 - Keeps commuters informed instantly
 - Reduces uncertainty and frustration
 - Enables proactive travel decisions

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3. Commuter Profile & Personalization

- **Solution:** User accounts with travel history, preferences, and personalized updates.
- **Benefits:**
 - Tailored communication
 - Enhanced user experience
 - Targeted service improvements

4. Analytics & Reporting Dashboard

- **Solution:** Admin dashboard with visual insights into commuter behavior, complaint trends, and satisfaction metrics.
- **Benefits:**
 - Data-driven decision-making
 - Performance monitoring
 - Resource optimization

4.3:- Solutions Architecture

1. Data & Integration Layer

- **Salesforce Service Cloud:** Central system of record for passenger profiles, feedback cases, incident management, and sales.
- **MuleSoft Anypoint Platform:** Integrates with external systems—ticketing, telematics (vehicle GPS), traffic/weather feeds, payment gateways—and enables real-time orchestration across platforms.
- **Salesforce Data Cloud (CDP):** Unified profiles store real-time and historical data—rider journeys, feedback trends, account balances—accessible enterprise-wide via federated views.

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2. Customer Engagement & Communication

- **Experience Cloud:** Passenger-facing portal and mobile app UI for account management, feedback, loyalty tracking, and contact.
- **Marketing Cloud & Journey Builder:** Automates personalized campaigns, real-time notifications (SMS, email, push) based on Platform Events and rider behavior.
- **Platform Events & Event-Driven Architecture:** Provides streaming of telemetry data (e.g. bus delay) for real-time notifications and system triggers across services