**Road sync**

**Abstract**

RoadSync app helps track vehicle distances, with a special focus on working offline.Using GPS, the app works in areas with little or no network, storing data locally and syncing it later when the connection is available. It makes it easy to monitor vehicle locations and distances in real time, helping with group travel or fleet management. Even without live updates, users can see the last known locations and distances between vehicles. Once the connection is back, the stored data updates the system, keeping everything running smoothly.

**Problem Statement**

Managing road-related tasks and user interactions often becomes challenging due to the lack of centralized platforms, manual data handling, and inefficient communication systems. Users face difficulties in accessing real-time updates, securely managing their profiles, and maintaining accurate records, which leads to delays, mismanagement, and reduced efficiency.

**Solution**

Road Sync addresses these issues by offering a centralized mobile platform with real-time user management, secure login/registration, and data synchronization. With features such as profile management, role-based access, and a modern UI, the app ensures reliable communication, accurate record-keeping, and improved efficiency. By leveraging MVVM architecture and modern Android practices, the solution is scalable, maintainable, and user-friendly, making it a practical tool for road-related management.

**Target market**

* Transport and Logistics Companies
* Government and Municipal Authorities
* General Road Users

**Feature**

* User Authentication
* Profile Management
* Role-Based Access
* Real-Time Data Synchronization
* Intuitive UI/UX
* Notification System

**Team members**

**Meerab shahbaz 2123110101**

**Fatima sarfraz 2123110076**

**Aqsa noor 2123110064**

**Eman Fatima 2123110084**





