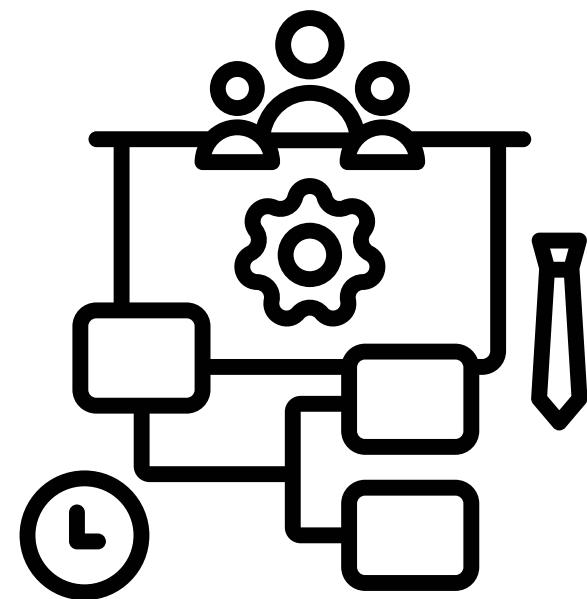


SIH 24

UrbanSync

Platform for Inter-departmental cooperation in
Indian Cities



Meet the Team

DEVDRAGONS

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Problem Statement

- To develop a Platform for Inter-departmental cooperation in Indian Cities, for sharing data & resources, unified phasing, planning and implementation of projects.
- Multiplicity of authorities and implementing agencies in Indian Urban landscape leads to underutilization of resources available with various departments, execution of multiple projects at same site may also lead to interference and delays due to miscoordination.
- This can be achieved by a collaborative digital platform for interdepartmental cooperation that can potentially resolve these issues and make inter-departmental cooperation more streamlined by sharing of data, ongoing projects with location, and inventory of available resources between departments/agencies, creation of tasks scheduling.

EXPECTATIONS

1. Platform where various department employees, officers, technical experts etc. can register themselves for collaboration in an efficient way.
2. Sharing data, ongoing projects with location, and inventory of available resources between departments/agencies.
3. Creation of tasks, scheduling, reporting and work distribution across departments for inter-departmental and multi-departmental projects, allocation of work efficiently across departments based on their capacity and expertise.
4. Identification, unified phasing, planning, and implementation of projects on same site, ensuring all departments are synchronized during project execution.
5. Discussion forum, with different forum sections allowing access to specific groups of users so that they can discuss the priority of the project ,updates and issues.

Solution

PROPOSITION

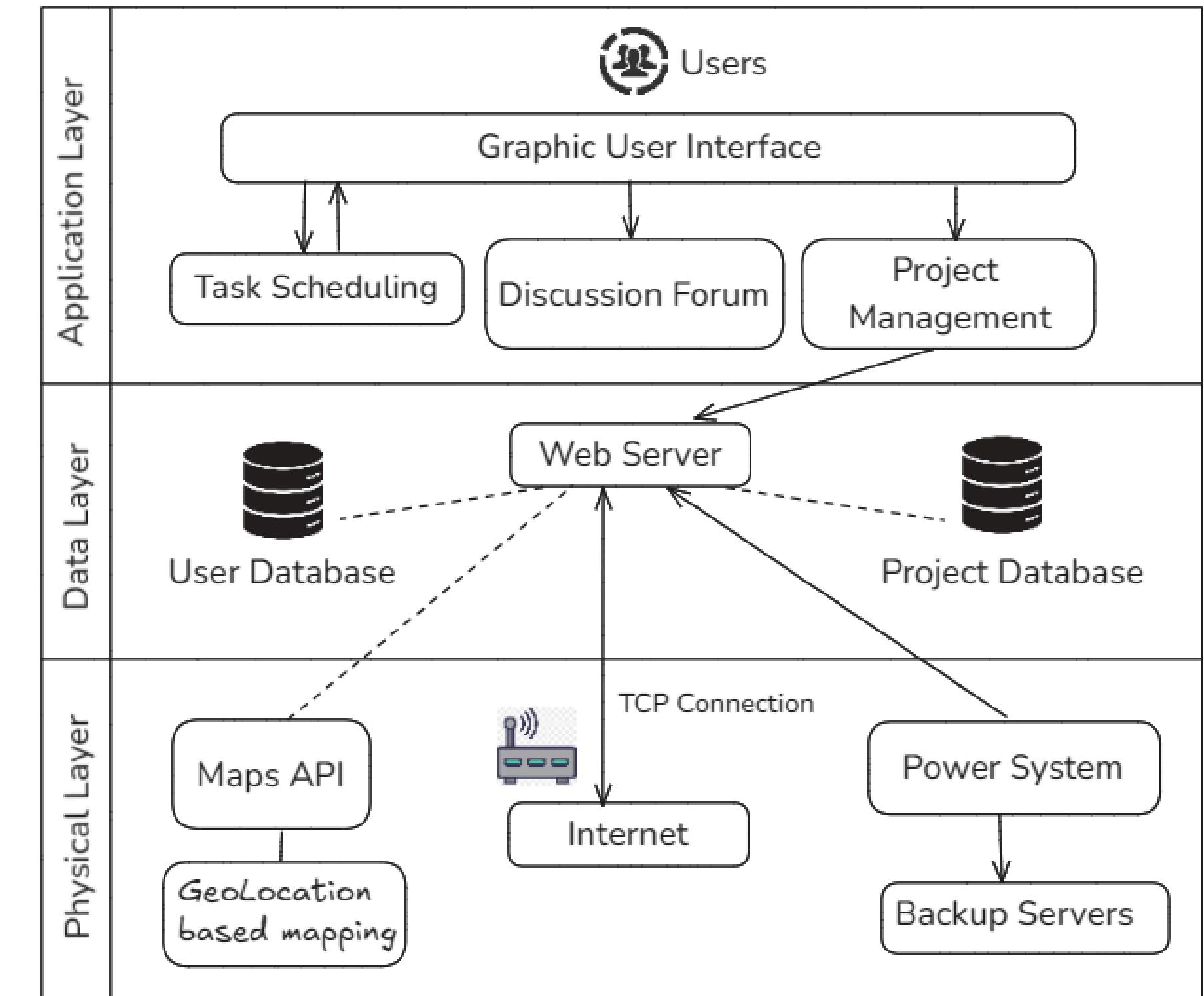
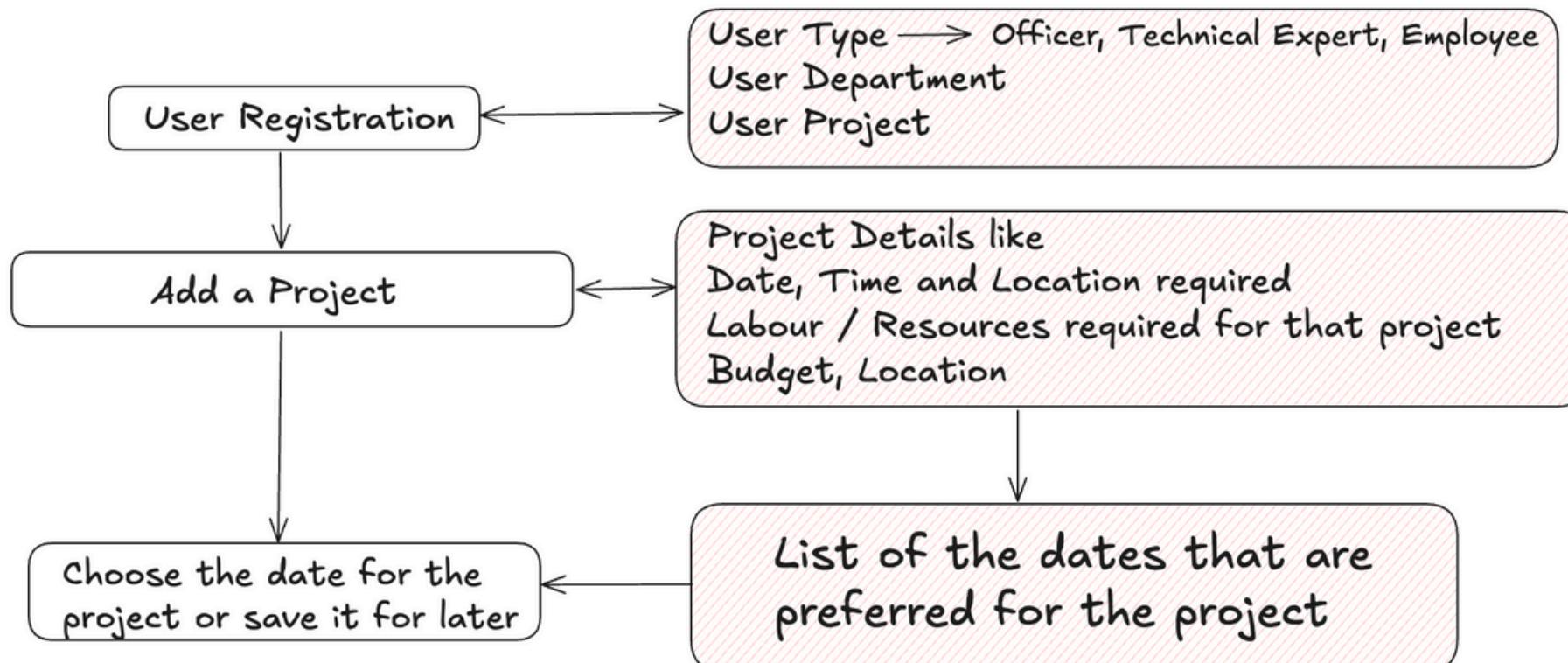
To address fragmented urban governance in Indian cities, we propose a digital platform for inter-departmental cooperation. This platform will enable data and resource sharing, offer real-time project updates, and unify task management. By enhancing collaboration and coordination, it aims to reduce delays, prevent resource underutilization, and streamline multi-departmental projects, improving urban management efficiency.

VALUE TO USER

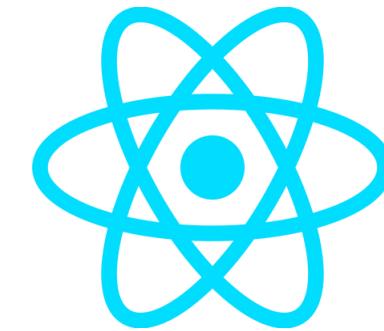
- 1. Real-time Data Sharing:** Departments can access and share real-time data on ongoing projects and resources.
- 2. Project Information:** Detailed project maps, including locations, timelines, and resource allocations for all inter-departmental initiatives.
- 3. Role based access control:** Different features accessibility for different users and department.
- 4. Task Management:** Create, assign, and track tasks directly through the platform, with integrated scheduling and reporting features.

Product

Architecture



Tech Stack



Tech Stack Used

1. Frontend (React):

- Framework for cross-platform mobile app development.
- Ensures a consistent user experience on both iOS and Android devices.
- Styled with Tailwind CSS for efficient and responsive UI design.

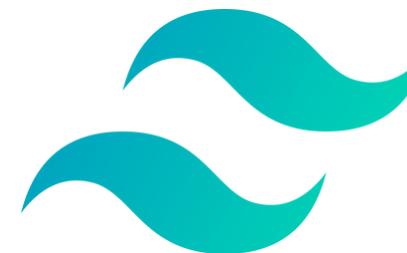
2. Backend (Go):

- Utilising the Go programming language for the backend.
- Go's efficiency and performance make it well-suited for handling backend operations.



3. Real-Time Tracking (Web Sockets):

- Web Sockets integration for establishing real-time connections between the app and buses.
- Enables continuous updates of bus locations and route information.



4. Map View (Google Maps API):

- Integrated Google Maps API for interactive map views, route planning, and navigation.
- Provides visual representations of bus routes and real-time tracking.



5. Database (MongoDB Atlas):

- MongoDB Atlas database for storing and managing data, including bus information, user profiles, bus routes, and ticket details.
- Offers cloud-based scalability and flexibility for data storage needs.

Business Model

Opportunities

1. Service-Based Model:

- The platform offers inter-departmental coordination and resource management features as a service to government agencies.

2. Subscription Model:

- Offer basic access for free to attract users, with charges for advanced features and premium support.

Intended customers

1. Departments/Government Agencies: City departments and agencies needing improved coordination and resource management.

2. Officers/Technical Experts: Professionals requiring efficient tools for task management and project tracking.

3. Urban Planning Agencies: Agencies responsible for urban development

4. Local Development Authorities: Authorities focused on community development and infrastructure projects needing a unified platform for task management and resource allocation.

5. Emergency Services: Emergency response teams that need streamlined communication and coordination across multiple departments for efficient crisis management.

Source of Revenue

1. Data Integration Services:

- Offer data integration and customization services for departments needing tailored solutions. Charge fees for the setup and ongoing support.

2. Subscription Fees:

- Charge departments or agencies a subscription fee for access to the platform. This fee can be tiered based on the size of the department or the level of access required.

3. Consulting and Training:

- Provide consulting and training services for effective use of the platform. Charge fees for workshops, training sessions, and strategic consulting.

4. Licensing and Partnership Fees:

- License the platform to other cities or regions, or form partnerships with technology providers. Charge licensing fees or partnership contributions.

COMPETITION

- **Project Management Platforms:** Platforms like Asana, Trello, Monday.com offers task management, project tracking, and collaboration features.
- **Collaboration Tools:** Tools like Slack, Teams facilitates communication and collaboration through channels, direct messaging, and integrations, offers project management, team communication, and file sharing in one platform.
- **Enterprise Resource Planning (ERP) Systems:** Provides comprehensive resource planning, project management, and data sharing features, offers financial management, project management, and resource planning capabilities.
- **Specialized Government or Urban Management Platforms:** Focuses on asset and maintenance management for public works, provides solutions for government communication, engagement, and service delivery.
- **Open Source Platforms:** OpenProject is an open-source project management tool that supports task management, collaboration, and project planning and Odoo is an open-source ERP with various modules for project management, resource planning, and more.

Summary

- **Solutions:** The Platform for Inter-departmental Cooperation in Indian Cities facilitates seamless data and resource sharing among departments, unified project planning, and effective implementation. It includes features for task creation, scheduling, reporting, and distributing work, addressing challenges associated with multiple authorities and agencies in urban governance.
- **Benefits:** Streamlined inter-departmental collaboration, improved resource allocation, enhanced project management, and efficient handling of urban challenges. The platform ensures unified planning and effective execution, leading to better governance and improved quality of urban services.
- **Unique Selling Proposition:** Centralized data sharing, unified project management, enhanced task scheduling, and a comprehensive solution for urban governance challenges.
- **Impact:** Expect improved urban management with enhanced project execution, better resource use, and more effective governance, leading to a better quality of life in Indian cities.