

**Team:** TM001558

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**Problem ID:** PS030003

**Problem Statement:** Jamnagar Public Welfare Schemes App

### **1. Synopsis Abstract:**

Main aims to bridge the gap between the local municipal government and citizens by providing a user-friendly platform. This app compiles a comprehensive list of all Public Welfare Schemes, documents required, and enables citizens to apply seamlessly. It empowers officers with the ability to process applications efficiently. Citizens can track their applications and receive real-time notifications about their status, promoting transparency and accountability in welfare distribution.

### **2. Literature Review/Existing Innovation-technology**

Existing solutions often lack integration and user-friendliness. Few apps provide scheme information but lack real-time application tracking. Technologies like blockchain and AI have been explored for transparency, but adoption is limited in local governance apps. Our innovation lies in combining comprehensive scheme data, a user-centric interface, and real-time tracking, addressing the gaps in current offerings.

### **3. Approach to Solve the Problem:**

Our approach involves designing an intuitive application using a user-centered design methodology. We will create a centralized database of welfare schemes, linking it with a citizen database. For real-time tracking, a robust backend will be implemented. Blockchain technology will ensure data integrity, while machine learning algorithms will optimize the application processing. User feedback loops will be vital for iterative improvements.

#### **4. Tools and Technologies:**

- **Frontend:** HTML, CSS, Javascript, React JS & Tailwind CSS
- **Backend:** Node.js and Express.js for a scalable and responsive backend. Database: MongoDB for flexibility and scalability.
- **Notifications:** Firebase Cloud Messaging for real-time status updates.

#### **5. Challenges/Risks in Implementation:**

- **Data Integration:** Ensuring accurate and updated scheme information and citizen data.
- **User Adoption:** Encouraging citizens to transition from traditional methods to the app.
- **Security:** Safeguarding sensitive citizen data and ensuring secure transactions.
- **Technical Complexity:** Integrating blockchain and ML technologies seamlessly into the app.
- **Regulatory Compliance:** Adhering to local regulations and policies related to data and governance.

#### **6. Possible Outcome of Your Work:**

- **Enhanced Citizen Engagement:** Increased citizen participation in welfare schemes due to user-friendly interface.
- **Efficiency:** Streamlined application processing, reducing manual efforts and time delays.
- **Government Efficiency:** Officers can manage applications effectively, focusing on approval decisions.
- **Data-Driven Policy Making:** Access to structured data can aid the government in making informed policy decisions for welfare schemes.