Suchitwa Mission: Digital Transformation of Panchayat Plastic Collection

Abstract:

Suchitwa Mission aims to revolutionize the process of plastic collection in Panchayats through digital transformation. This project entails the development of a user-friendly website equipped with features such as a collection schedule dashboard, alert system, secure payment gateway, educational resources, and an admin panel for efficient management. By integrating modules for users, administrators, and monitoring, the platform streamlines plastic collection efforts while raising awareness about plastic pollution.

Modules:

1.User Module:

Registration/Login: Allows users to create accounts or log in securely.

Profile Management: Enables users to update their personal information and preferences.

Plastic Collection Schedule: Displays upcoming collection dates and times in a user-friendly calendar format.

Alert System: Notifies users about scheduled collection dates and times via SMS or WhatsApp notifications.

Secure Payment Gateway: Integrates multiple payment options for users to pay for the collection service securely.

Educational Resources: Provides access to informative materials on plastic pollution and its impact, raising awareness among users.

Dashboard: Displays the user's collection schedule, payment history, and overall plastic contribution.

2.Admin Module:

Authentication: Secure login for administrators to access the admin panel.

User Management: Allows administrators to manage user accounts, including registration approval, profile updates, and account deactivation.

Collection Schedules: Enables administrators to set and update collection schedules based on availability and demand.

Educational Content Management: Allows administrators to update and manage educational materials on the website to ensure relevance and accuracy.

3.Monitoring Module:

Dashboard: Provides a comprehensive overview of plastic collection activities, including schedules, user participation, and financial summaries.

Real-time Monitoring: Allows administrators to monitor collection activities in real-time, ensuring timely and efficient service delivery.

Performance Metrics: Tracks key performance indicators such as collection volume, user engagement, and revenue generation to assess the effectiveness of plastic collection efforts.