

Development of a Web-Based Youth Information Management System (YIMS) for the Sangguniang Kabataan of Barangay Kahayagan, Pagadian City

System Overview

The **Youth Information Management System (YIMS)** is a proposed web-based platform designed to assist the **Sangguniang Kabataan (SK)** in organizing, managing, and utilizing youth-related data more effectively. It aims to go beyond simple profiling by integrating essential digital tools that address real-life challenges faced by the youth sector, such as limited access to opportunities, lack of communication channels, and inadequate engagement in community activities.

The system centralizes all youth data—including personal, educational, employment, and participation records—while providing practical services such as job matching, scholarship access, mental health support directories, and volunteer coordination. It also empowers SK officials with real-time analytics for decision-making and transparent reporting.

System Features

A. Core Features (Retained from the Original System)

1. Centralized Youth Database

A unified digital repository that stores and organizes youth information, including personal details, educational background, and community involvement.

2. User Authentication and Role Management

Provides secure login for SK officials, barangay administrators, and registered youth, each with designated permissions and access levels.

3. Youth Profiling and Record Management

Enables SK officials to create, update, and retrieve youth records efficiently using searchable forms and filters.

4. Data Verification and Anti-Duplication

Integrates OTP (One-Time Password) verification via email or SMS to confirm user identity and prevent duplicate registrations.

5. Report Generation

Automatically produces summaries and printable reports for SK meetings, planning, and

documentation.

6. **Event and Participation Tracking**

Records youth participation in SK programs, trainings, and events, providing measurable data on engagement levels.

B. New and Expanded Features

1. **Youth Opportunity Hub**

A centralized bulletin where youth can view available **scholarships, internships, job openings, training programs, and community projects**. SK officials can post verified opportunities from partner institutions.

Purpose: Addresses unemployment and lack of access to educational or career development resources.

2. **Community Mapping and Volunteer Registry**

Displays active community projects and allows youth to **register as volunteers** for environmental, educational, or disaster-preparedness programs.

Purpose: Encourages civic involvement and makes community service participation more organized.

3. **Mental Health and Support Directory**

Provides confidential access to **mental health resources**, including counseling hotlines, peer groups, and wellness activities organized by the SK.

Purpose: Promotes youth well-being and reduces the stigma around mental health concerns.

4. **Youth Engagement and Feedback Portal**

Allows youth to submit suggestions, feedback, or concerns directly to SK officials. It also includes **online surveys and polls** for participatory decision-making.

Purpose: Strengthens two-way communication and ensures that programs reflect real community needs.

5. **Smart Analytics Dashboard**

A data visualization tool that presents demographic statistics, participation rates, and program outcomes through charts and graphs.

Purpose: Enables data-driven planning and evaluation of youth programs.

6. **QR Code Digital Identification System**

Generates a unique **QR code ID** for each registered youth, which can be scanned during SK events for attendance verification.

Purpose: Simplifies participation tracking and reduces manual recording.

7. **Transparency Dashboard (Public View)**

Displays non-sensitive youth statistics and SK program updates visible to the public.

Purpose: Promotes transparency, accountability, and community awareness.

8. **Offline Accessibility (Progressive Web App)**

Allows data collection during outreach programs even without internet connectivity.

Once the device reconnects, all information automatically synchronizes with the main database.

Purpose: Ensures inclusivity for remote areas with poor internet connection.