

Digital Government Scheme Notification System

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Abstract—An internet-based portal called the Digital Government Scheme Notification System makes it easier for citizens to learn about official improvements and projects. It enables consumers to register, investigate several initiatives, apply, and get notifications in real time. System-wide alerts, application management, client input, and scheme category categorization are all managed by the administration portal. The online system increases accountability, reduces repetitive tasks, and fortifies the link amongst citizens and government functions by automating all of this.

Index Terms—Beneficiary communication, scheme eligibility, RESTful services, federal initiative tracking, waterfall model, agile model.

I. INTRODUCTION

Although federal initiatives are intended to help residents, gaining access and making use of programs can frequently be difficult. By providing an online platform that enables consumers to browse, apply, and monitor federal programs with ease, the online Governmental Program Announcement Program seeks to streamline this procedure.

Users and Managers are both main categories of users in the software. Consumers have the ability to sign up, log in, examine various plans, apply, and get alerts. Supervisors are in charge of client programs, category upgrades, scheme maintenance, and review tracking. The technology improves productivity, openness, and availability by modernizing the program's alert and enrolment procedure, guaranteeing that residents who qualify can easily obtain government assistance.

1.1 Goals: The goal of project is to provide citizens with a straightforward interface for finding and applying for government initiatives. Through providing customers with immediate status monitoring along with periodic notifications, it fosters openness and improves collaboration.

1.2. Objectives

- The first goal is to establish a single platform for governmental alerts and programs.
- To enable registration, plan usage, and enrolment tracking for citizens.
- To give administrators the ability to successfully handle uses, plans, and comments.
- To put in place a system for instantly notifying users of modifications and permissions.
- To improve user involvement by using an electronic, controlled procedure.
- To make attempts by governments more transparent and accessible.
- To give all parties involved a safe and intuitive layout.

By bridging the disparity among citizens and government programs, this sort of technology improves the efficiency and accessibility of the procedures.

II. LITERATURE WORK

With the goal of improving resource execution's effectiveness, availability, and openness, online governance has emerged as a crucial component of the federal government in the past few years. The administration and distribution of government-funded initiatives and welfare initiatives constitutes an important area of concentration. Linguistic hurdles, the intricacy of the enrolment procedure, and an absence of understanding have historically made it difficult for citizens to obtain current and precise details about federal initiatives.

To close the disparity among citizens and government offerings, a number of electronic government programs are being launched, including Bharat's Digital India project, MyGov, as well as e-Samaj Kalyan websites. The goal of these platforms is to offer a single location wherein customers may apply, obtain data, and subscribe to notifications. A lot of

them, nevertheless, aren't easy to use to those living in rural areas, lacking actual time alerts, or were poorly participatory.

According to studies, citizen involvement can be greatly increased by integrating computerized alerts, polls, or access determined by roles (such as administrator and client). In order to guarantee diversity, research additionally stress the significance of handheld availability, linguistic assistance, and streamlined user experiences.

By providing an organized and accessible interface, this work aims to alleviate such problems. Through the portal, citizens may sign up, browse plans according to classifications, monitor the progress associated with their usage, and get current news. Supervisors may oversee public interaction, receive opinions, and administer initiatives all at once. This guarantees improved understanding, enhanced interaction, and superior scheme execution.

III. EXISTING AND PROPOSED SYSTEM

3.1 Existing System

These days, knowledge regarding federal initiatives is sometimes scattered over several sources, making it challenging to acquire and use. Because of the absence of organized warning methods, many citizens persist to be ignorant of programs.

A) Problems with the Current System:

- **Insufficient Knowledge:** Ineffective information distribution may cause citizens to lose participating in advantageous programs.
- **Manually Registration Method:** Long forms as well as personal visits are frequently required for program registrations.
- **Following Requests Is Difficult:** Candidates have trouble keeping up with the requests that they have filed.
- **Ineffective interaction:** There are no immediate alerts for modifications, refusals, or confirmations of the program.
- **Restricted Availability:** Among many citizens, data concerning schemes is dispersed and difficult to obtain.

Such issues show how important it is to have an online system that streamlines and consolidates scheme-related procedures.

3.2. Proposed System

Through the online infrastructure offered by the Electronic Government Programme Alert System, citizens can effectively access to information, register for, and monitor federal programs. In real time alerts, app monitoring, and organized storage of data are all guaranteed by the software.

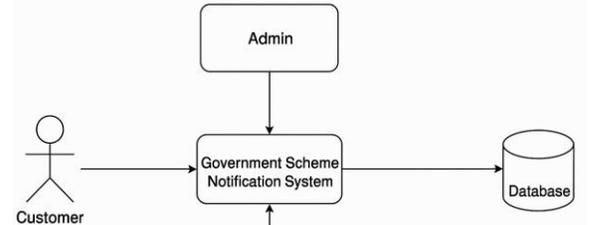


Figure 3.1: Block diagram of workflow

The main elements and information movement throughout a federal alert framework, which is intended to promote productive interaction among citizens, leaders, and background offerings, are depicted in the above architectural diagram.

- **The customer module:** Alerts of the program are accessed by citizens or end users and provides suggestions or questions to the database; gets individualized alerts and information. Customers are able to sign in, and utilize a variety of federal initiatives using the client component. Alerts, uploading applications, application advancement tracking, and comments are all available to customers. The component guarantees that citizens can easily engage in the technology while getting current information.
- **Administrator:** Qualified staff in charge of programme alerts and information and provides the network with developments, arrangements, and novel design information. Introducing schemes, types, and alerts are just a few of the features that the administrator section is in charge of overseeing. Administrators may keep an eye on client programs, examine user comments, and guarantee that the system runs smoothly. The effectiveness and openness of program administration are guaranteed by this component.
- **Alert Protocol for government initiatives:** It is application's main computational mechanism and it gets feedback from administrators and clients.
- **Handles query processing and message reasoning management.**

IV. SYSTEM REQUIREMENTS

4.1 Software Requirements

Component	Details
Operating System	Windows
User Interface	HTML, CSS, JavaScript, Bootstrap
Programming Language	Java
Web Applications	JSP, JDBC
IDE / Workbench	Eclipse
Database	MySQL, SQL, SQLYOG
Server Deployment	Apache Tomcat

4.2 Hardware Requirements

Hardware Component	Specification
Processor	Intel i3 Processor
RAM	4 GB
Monitor	15-inch color monitor or LED
Hard Disk	256 GB
Keyboard	Standard 102 keys
Mouse	Optical

- Admin: Oversees customers, information, as well as scheme statistics.
- Client (Citizen): See plans, submits applications, and gets alerts.
- Customer Functions Panel: This section provides tools for citizens to:
 - 1) Register / Login: Create and access personal accounts.
 - 2) Home: Navigate to the customer dashboard.
 - 3) View Notifications: Stay updated on scheme announcements.
 - 4) View Scheme: Browse available government schemes.
 - 5) View My Scheme: Track schemes the user has applied for.
 - 6) Add Feedback: Share opinions or suggestions.
 - 7) My Profile: View and edit personal details.
 - 8) Change Password / Logout: Manage account security.

4.3 Functional Requirements:



Figure 4.1: Overview of the scheme management portal

V. IMPLEMENTATION AND RESULTS

The phrase "Government Schemes" denotes implies the portal's primary purpose is to provide details on different official programs, probably encompassing qualification, advantages, and submission processes.



Figure 5.1: Homepage

The framework's Contact Us screen, which is intended to enable immediate connection among citizens with website managers, is depicted in figure 5.2

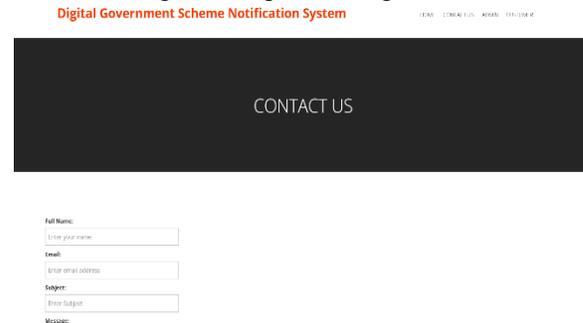


Figure 5.2: Contact details

Administrator login area acts as a safe entry point for approved employees to control the website's server functions.

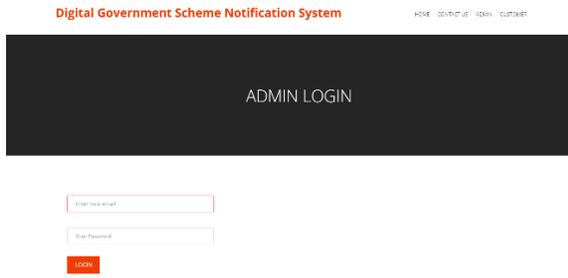


Figure 5.3: Webpage for administrator login



Figure 5.4: Administrator home

Supervisors can keep an eye on inbound questions and comments using the following interface.

- Determine any demands or problems that keep coming up.
- If necessary, reply to clients by emails.
- Keep track of every citizen participation.

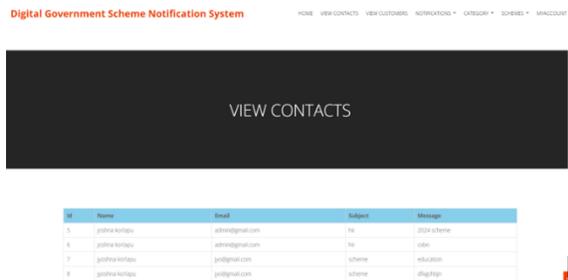


Figure 5.5: contact details



Figure 5.6: Viewing Client

Supervisors may inspect citizen profiles using this portal.

- Confirm the address and contact details.
- Monitor the state of authorization for plan membership.
- Respond (accept/reject) in accordance with the results of validation.

After logging in, an administrator selects "Add Alerts" and completes:

- Title: "Scholarship for Minority Students"
- Overview: "Until September 30th, applications are accepted. See xyz.gov.in for further information."
- Picture: Adds an advertisement or poster.
- This alert would be visible to the public via the NOTIFICATIONS column when it was filed.

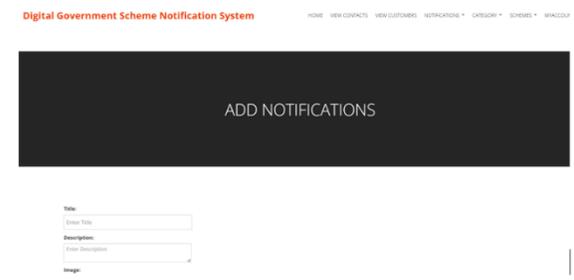


Figure 5.7: Adding Alerts

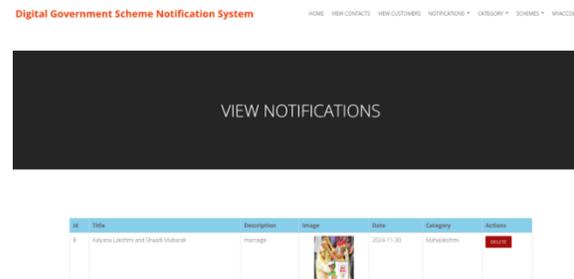


Figure 5.8: Viewing of Alerts

After logging in, the administrator selects "VIEW NOTIFICATIONS."

- Views an array of every alert that is currently live.
- Able to confirm information, check the date of posting, and guarantee accurate classification.
- The administrator selects DELETE to eliminate the alert that was published incorrectly or seems no further applicable.

Layout Notes: The dashboard is intriguing as well as user-friendly thanks to the illustration column's contextual appearance.

- The DELETE option indicates that the machine is Restful (Create, Read, Update, Remove) supported.
- To make alerts simpler for citizens to locate, the Category column assists in filtering or classify them.

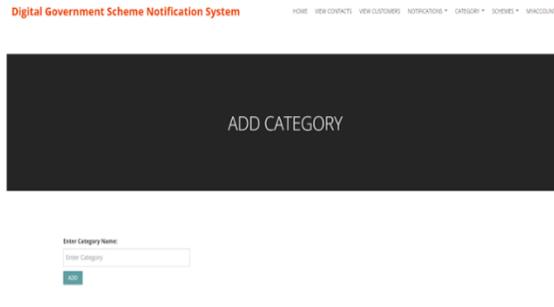


Figure 5.9: Adding categories

Let's say the state introduces an entirely new collection senior citizen program. For this, the administrator goes into ADD CATEGORY group, enters "Senior Citizens" within the input box, then selects ADD. While introducing relevant plans or alerts, users may select from the newly created section in the application. The interface grows more streamlined and easier to operate as an outcome, enabling users to narrow down content according to pertinent themes. This add-on facilitates the installation of extra groups without necessitating modifications to the core logic by supporting flexible schemes categorization, interactive screening for citizens, as well as an extensible database architecture.

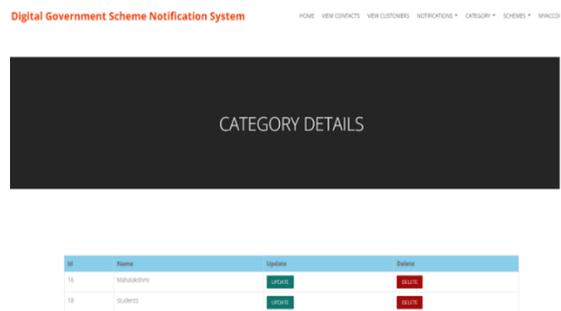


Figure 5.10: Category Layout

Illustration of a Use Case: An administrator wishes to launch a brand-new program named "Mukhyamantri Health Card":

1. Points to the ADD SCHEME.
2. The heading "Mukhyamantri Health Card" appears.
3. Chooses the Mukhyamantri section.
4. Provides a summary: Complimentary medical examinations for low-income people.
5. Presents the application, allowing citizens in the group of your choice to view the plan.

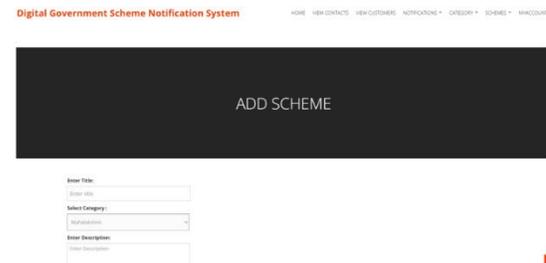


Figure 5.11: Adding new plan

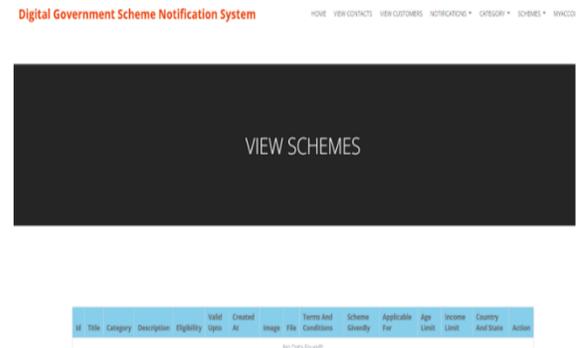


Figure 5.12: Viewing of plans

The "VIEW SCHEMES" Ui is depicted in the picture. It is intended for admins or designated individuals to oversee and evaluate official programs. The purpose of this section is to show an overview of every plan that has been added to the platform. several columns of data, each of which stands for a crucial component of an official program. But as of right now, the record displays the warning "No Information Discovered!!" which suggests that either the library is blank or no strategies are currently uploaded.

Because it enables admins to keep an eye on, revision, and verify methods earlier than they becomes public, the aforementioned interface is essential for backend maintenance. After filled, this database will enhance

openness and effective administration by acting both an ever- changing library for every ongoing and archival programs.



ID	Customer Email	Scheme ID	Description	Category	Authentic	Offerfile	Status	Action
10	phn@digipol.com	10	manage	Subsidies		Download	Approved	View Profile

Figure 5.13: View Scheme Applications

This screen, which provides a clear and structured perspective on citizen programs, is essential for internal activities.

- Supervisors can use it for Examine credentials that have been provided.
- Confirm validity.
- Monitor the status of the registration.
- Take the necessary steps (approval, rejection, or additional details request, for example).
- The solution increases productivity, lowers human rate of mistakes, and guarantees that qualified residents receive subsidies promptly by automating this procedure.



admin@digipol.com

Enter Your Old Password

Enter Your New Password

Figure 5.14: Administrator Password Update

Guaranteeing that restricted individuals gain accessibility to managerial functionality and preserving confidentiality of accounts depend on this control panel. The solution lowers the possibility of unwanted accessing by enforcing a simple yet efficient verification procedure that requires simultaneously the previous and current passwords.

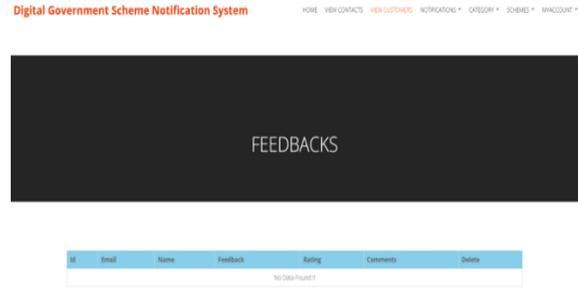


Figure 5.15: Viewing Comments

The purpose of this web page is to assess and moderate customer comments by administrators. The following table shall be filled with data as soon as people start sending in comments over the platform (perhaps using an application that is visible to the audience). By eliminating unsuitable or unnecessary comments, administrators can control the level of accuracy of the information, according to the Delete choice.

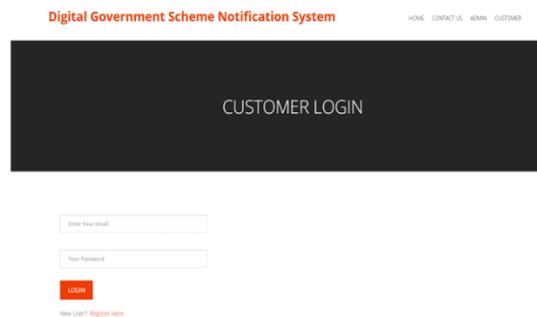


Figure 5.16: Customer Login

The purpose of this section is to enroll fresh residents in the database so that they can get tailored alerts regarding governmental programs. It guarantees the safe and organized collection of personal information, which serves as the basis for validity monitoring and focused engagement.



Figure 5.17: Customer Register



Figure 5.18: Customer Home

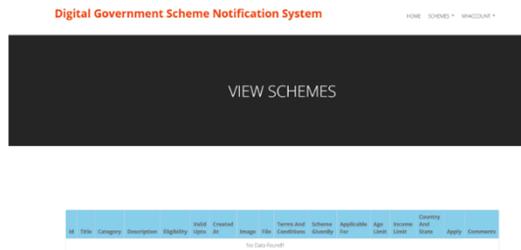


Figure 5.19: View Scheme

5.2 Benefits of the Recommended System:

- Unified Details: Every aspect of the plan is accessible in a single location.
- Simple Registration Method: Individuals may submit applications electronically for programs without having to come in person.
- Immediate Notifications: Get immediate information about the progress of submissions and launches of new schemes.
- Improved Monitoring System: Customers can keep an eye on the requests they've filed.
- Increased Openness: This guarantees that the public and the authorities may communicate clearly.
- Simple to Use Interface: Developed to make it simple for every one of users to navigate.
- Safe Details Handling: This method uses cryptography and identification to safeguard user data.

This system greatly increases citizen participation in social assistance programs and makes official programs much more accessible.

VI. CONCLUSION AND FUTURE SCOPE

The way citizens engage with federal initiatives is being revolutionized through the proposed system. The framework guarantees openness, productivity,

and affordability by offering an electronic as well as organized approach. Although administrators can efficiently oversee plan activities, citizens can easily examine and register for programs. By bridging the divide between the general population and government officials, the structure guarantees a smooth and well-organized method for handling social services programs. This approach improves the complete for administration by decreasing laborious tasks and enhancing interactions, thus rendering it more dependable and easier to use.

VII. FUTURE SCOPE

The website design sector offers significant advancements as innovation advances. As novel technologies and instruments are introduced, we shall witness the sector's growth and expansion. Flexible and adaptable concepts, payment platform integrating, email and text message connection integrating, portable OTP connections, and the ability to customize web applications to handheld devices through creating them for both iOS and Android have the next phase of developing websites. In order for the user to utilize the same application characteristics on handheld devices as well. Additionally, we can incorporate geographic location or satellite navigation applications. Adding machine learning features to the program, such as classifications, forecasts, and suggestions may enhance it. Experts may additionally enhance the site's top engine and filtering features.

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