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Government Scheme Alert Web Applications

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Abstract— The proposed system aims to rectify the persistent issue of government schemes not effectively reaching their intended recipients due to administrative lapses. It introduces a user-friendly platform with a seamless registration process, allowing individuals from diverse backgrounds to apply for schemes. The administrator's role involves adding scheme details and ensuring the transparent and accurate review of user registrations against predefined eligibility criteria. The system's interface prioritizes accessibility with multi-language support, and the administrator's centralized authority facilitates informed decision-making on scheme applications. Detailed scheme information, including eligibility criteria and application guidelines, is provided to users. A notification system offers realtime updates on application status, promoting user engagement and trust. Security measures are robust, with regular audits to safeguard sensitive user data. Multi-role access control allows for delegation of responsibilities without compromising security. Analytics and reporting tools aid administrators in data-driven decision-making. Public awareness campaigns leverage diverse channels to inform citizens about available schemes and the userfriendly application process. The comprehensive system aims to enhance transparency, accessibility, and efficiency, mitigating the risk of government schemes underperforming due to administrative shortcomings.

Keywords—Administrator, E-Government Scheme, Societal sentiments, Bi-Directional Authentication.

1. INTRODUCTION

This exploration into the realms of social media data analysis not only delves into the technicalities of algorithms but also illuminates the nuanced interconnections between online conversations and real-world impact. By scrutinizing the sentiments and discussions revolving around pivotal government schemes, this study aims to decode not just what is being said but the underlying motivations, concerns, and aspirations driving these digital dialogues. Moreover, the study acknowledges the transformative power wielded by social media in fostering community movements, mobilizing opinions, and influencing public policies. It's not merely about parsing through vast data sets but understanding the human narratives woven within these digital threads. The

analysis strives to capture the pulse of the society reflected in the virtual sphere, recognizing that social media is more than a repository of information—it's a mirror that reflects the ethos and ethos of our times.

Additionally, this research acknowledges the ethical considerations inherent in analyzing user-generated content. It aims to respect privacy, avoid biases, and present findings ethically, ensuring that the insights garnered contribute positively to societal understanding without encroaching upon individual liberties.

Furthermore, the study aims to bridge the gap between academic insights and practical applications. By highlighting the potential implications of this data analysis for policymakers, businesses, and societal stakeholders, it emphasizes the need for responsible utilization of these insights for the collective betterment. As the study navigates the labyrinthine terrain of social media data analysis, it illuminates the need for a multidisciplinary approach. It integrates the realms of computer science, sociology, and communication studies to unravel the intricate tapestry of online interactions. By amalgamating these diverse fields, it aims not just to crunch numbers but to weave narratives that encapsulate the essence of societal perceptions and aspirations. Moreover, this research acknowledges the dynamic nature of social media ecosystems. It recognizes that these platforms evolve continually, adapting to technological advancements and societal shifts. Thus, it underscores the importance of adaptability in analytical methodologies, advocating for approaches that are not just static algorithms but frameworks capable of flexing and adapting to the everchanging digital landscape.

In addition, this study contributes to the existing literature on social media data analysis by employing novel techniques and tools. It leverages the power of artificial intelligence, machine learning, and natural language processing to extract meaningful insights from large-scale and unstructured data. It also utilizes various visualization methods to present the results in an intuitive and engaging manner. Furthermore, it applies various quality measures and ethical principles to ensure the validity and reliability of the data and the analysis. It also addresses the challenges and limitations of social media data analysis, such as data quality, privacy, bias, and interpretation issues. By doing so, it aims to provide a comprehensive and rigorous account of the current state and

future directions of social media data analysis.

The study goes beyond the conventional data analysis and aims to excel in the art of storytelling. It does not simply present the statistical findings in a dry and factual manner, but it also weaves captivating narratives that resonate with the experiences and emotions that are embedded within the digital discourse. This approach endeavors to humanize the data, transforming it from abstract and cold numbers into relatable and meaningful stories that capture the essence of societal sentiments and attitudes.

In essence, this research journey embarks on an expedition into the heart of digital conversations, aiming to decipher the underlying themes and emotions that permeate through the virtual corridors of social media. It underscores the significance of not just quantitative analysis but qualitative understanding, recognizing that behind every data pointlies a narrative waiting to be understood and shared. Through this holistic approach, it aims to transcend the boundaries of conventional data analysis and enrich our comprehension of the intricate interplay between technology, communication, and society.

In conclusion, this study stands as a testament to the evolving nature of digital communication and its pivotal role in shaping our world. It embraces the challenges and complexities inherent in analyzing social media data, viewing them not as obstacles but as gateways to deeper insights. By doing so, it aspires to pave the way for a more profound comprehension of the interconnectedness between the virtual and the real, propelling us towards a future where digital interactions are not just data points but windows into the collective consciousness of humanity.

1.1 PROBLEM ANALYSIS

1.1.1 EXISTING SYSTEM

Authentication is a vital component of network security, especially in the context of e-government systems that provide online public services to citizens and businesses. Authentication refers to the process of verifying the identity of users and systems that interact with each other over the network.

However, authentication is not a static or simple problem. It is a dynamic and complex challenge that requires constant innovation and improvement. As new technologies emerge and new threats arise, authentication methods need to be updated and adapted to meet the changing needs and demands of egovernment systems.

1.1.2 PROPOSED SYSTEM

This website provides all the schemes released by the Government for the benefit of the citizens. It also announces every new scheme that is launched or updated by the Government and displays the notifications on the main pages of the website. The user registration process is simple and secure, requiring only basic information and verification. The login authentication ensures that only registered users can access the scheme details and apply for them. The website also allows users to check their status details, such as eligibility, application status, payment status, etc., for any scheme they have applied for or are interested in.

2. LITERATURE SURVEY

In software development, a comprehensive literature survey stands as the cornerstone, shaping the entire development process. Before crafting any tool or system, meticulous evaluation of critical factors—time, economic viability, and resource robustness—is imperative. These considerations act as guiding compasses, steering subsequent actions.

Once these foundational aspects are established, attention turns to the practical realm: choosing an optimal operating system and programming language. These decisions lay the groundwork for the tool's architecture and functionality, transcending technical choices to become strategic maneuvers aligned with project objective.

Programmers, not working in isolation, rely on a wealth of knowledge. Senior developers, reference materials, and online resources provide indispensable support, offering insights and guidance throughout the developmental journey. This fusion of experience, literature, and digital resources strengthens the development process, transforming conceptual ideas into functional realities.

Within the landscape of software development, a comprehensive literature survey serves as more than a starting point; it's the bedrock upon which successful projects are built. The meticulous evaluation of crucial elements-time constraints, economic viability, and the solidity of available resources—serves not just as a checklist but as guiding principles shaping the trajectory of the development process.

Once these foundational elements are securely established, the spotlight shifts to the pragmatic realm: the selection of an optimal operating system and programming language. These choices transcend technical preferences; they become strategic decisions that lay the groundwork for the tool's architecture and aligned functionality, meticulously with the overarching objectives of the project.

Moreover, each stage of this meticulous process undergoes continuous evaluation. Resource allocation, manpower considerations, economic feasibility, and the overall strength of the company's standing are subject to constant reassessment. This perpetual scrutiny ensures not just compliance with project goals but also alignment with industry standards, fostering a developmental environment deeply rooted in foresight and understanding.

Collaboration isn't just a buzzword in this domain; it's an operational reality. Programmers, far from toiling in solitary endeavors, draw upon a rich tapestry of knowledge. Seasoned developers, reference materials, and the vast expanse of online resources become invaluable pillars, offering insights and guidance that fortify the developmental journey. This synthesis of experience, literature, and digital support elevates abstract concepts into tangible, functional

Furthermore, every stage undergoes meticulous evaluation. Resource allocation, manpower, economic feasibility, and company strength undergo constant reassessment, ensuring alignment with project goals and industry standards. This meticulous scrutiny ensures each step is rooted in a solid foundation of foresight and understanding.

Hence, the essence of project development extends beyond mere coding and design. It lies in strategic planning and informed decision-making facilitated by an extensive literature survey—a compass guiding through complexities, ensuring purposeful and optimized strides toward realizing a robust and effective software tool.

3. METHODOLOGY

3.1 SYSTEM ARCHITECTURE

The system architecture consists of three main components: an ADMINISTRATOR, a SCHEME, and a USER. The administrator is responsible for creating and managing the scheme, which is a set of rules or parameters that define how the system operates. The user is an individual or entity that interacts with the system through the scheme. Both the administrator and the user have the ability to ADD, UPDATE, and DELETE schemes, depending on their needs and preferences. Additionally, both can view different types of schemes that are available in the system, such as public, private, or hybrid schemes. The system architecture is illustrated by a flowchart that shows the relationships and actions among the components. The scheme component has three subcomponents: ADD, UPDATE, and DELETE, which represent the possible actions that can be performed on a scheme. Similarly, the user component has three subcomponents: ADD, UPDATE, and DELETE, which represent the possible actions that can be performed on a user account. The view types of scheme component is shared by both the scheme and the user components, indicating that both have access to this functionality.

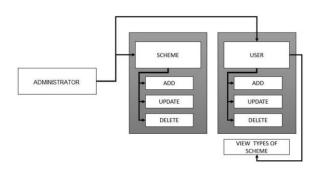


Fig 3.1 Architecture diagram

3.1.1 ADMINISTRATOR:

This module manages the programs and schemes that the government funds for eligible citizens. administrator's role is to keep the citizens informed and updated about the programs and schemes and their changes and opportunities. The administrator does these tasks:

Checks for new updates: The administrator regularly checks the official sources for any new updates or changes in the programs and schemes, such as eligibility, benefits, duration, application process, etc.

Updates the website and sends notifications: The administrator updates the website with the latest information and sends SMS notifications to the eligible citizens for the specific programs and schemes. The notifications tell the citizens about the details and deadlines and encourage them to apply quickly.

Reviews the eligibility data and reports the numbers: The administrator reviews the eligibility data of the applicants and verifies their documents and information. The administrator also reports how many members applied for each program and scheme and tracks their progress and status.

Approves or rejects applications: The administrator approves or rejects different applications based on eligibility and documents. The administrator also gives feedback and guidance to the rejected or improved applicants.

The module's goal is to administer the programs and schemes efficiently and transparently and to help the citizens get the maximum benefits from them.

3.1.2 USER:

The user received a notification about a scheme that offers financial assistance to eligible applicants. The scheme is designed to help people who are facing economic challenges due to the pandemic. The user was informed that if he is not eligible for the scheme, he should visit the website to verify the necessary documents before applying for that specific plan. The website provides a list of documents that are required for each plan, such as income statements, bank statements, tax returns, etc. The user can also find out more information about the eligibility criteria and the amount of assistance available for each plan. The user can apply for the scheme online by filling out a simple form and uploading the documents. They simply log into the system to monitor the status of their applications as well. The system will notify them when their applications are approved or rejected. The details of users in the list can only be edited or removed by the user. The user can change their personal information, such as name, address, phone number, etc., or cancel their applications at any time. The user can also contact the customer service team if they have any questions or issues regarding the scheme or the website. [12].

3.1.3 SCHEMES:

This module provides the administrator with the functionality to create new schemes, delete obsolete schemes, and modify existing schemes. These display all the scheme details along with the information related to the scheme-specific user, criteria, and condition. On the portal, the administrator is the only one who has the privilege to create new schemes. The details of the schemes are accessible to all remaining users. A scheme is a set of rules and parameters that define how a certain process or task is executed. For example, a scheme can specify how to allocate resources, assign roles, or evaluate performance. The administrator can use this module to customize and optimize the schemes according to the needs and goals of the organization. The module also allows the administrator to view and manage the users who are enrolled in each scheme, as well as the criteria and conditions that determine their eligibility and progress. In this module, the user can perform various actions such as creating a new scheme, editing an existing scheme, deleting an unwanted scheme, viewing the scheme details, and managing the scheme users, criteria, and conditions.

4. RESULTS AND DISCUSSION

In order to supply the schemes to the relevant user, we first need the user to verify all of the conditions mentioned above. To do this, we gather the user's information through the user registration procedure. Once we have that, we can provide the relevant scheme to the relevant user. The user can profit from this government program by using it.

We can view a variety of report types in the reporting module, including scheme- and user-wise reports. Various reports include Approved applications, Pending applications and rejected applications also user wise. The scheme name, scheme type, scheme id, and validity date are included in the scheme-wise report. The user-specific report should include all of the user's data as well as the specifics of the scheme that they are using, along with the conditions and criteria. The accepted applications report will show the application's status as well as any notes. The rejected applications reports will contain all of the reports on the denied applications.

In order to supply the schemes to the relevant user, we first need the user to verify all of the conditions mentioned above. These conditions may vary depending on the type and purpose of the scheme, but they generally include eligibility criteria, required documents, and consent forms. To do this, we gather the user's information through the user registration procedure, which involves filling out an online form and uploading the necessary files. Once we have that, we can provide the relevant scheme to the relevant user. The user can profit from this government program by using it for their intended goals, such as education, health care, or business development.

We can view a variety of report types in the reporting module, which helps us monitor and evaluate the performance and impact of the schemes. These reports include scheme- and user-wise reports. Scheme-wise reports show us how many users have applied for,

received, or rejected each scheme. They also provide us with information about the scheme name, scheme type, scheme id, and validity date. User-wise reports show us how each user has benefited from the schemes that they have received. They also provide us with information about the user's data, such as name, age, gender, location, income level, etc., as well as the specifics of the scheme that they are using, along with the conditions and criteria. The accepted applications report will show us the application's status as well as any notes that we have added during the approval process. The rejected applications reports will contain all of the reports on the denied applications, along with the reasons for rejection and any feedback that we have given to the users.



Fig. 4.2 Login Page



Fig.4.3 Andhra Pradesh scheme dashboard Page

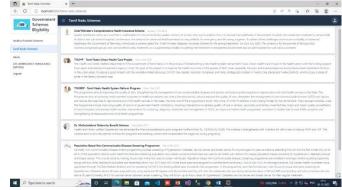


Fig.4.4 Tamil Nadu Scheme Dashboard Page

5. CONCLUSION

In conclusion, the government scheme web application is a valuable resource for citizens who want to avail themselves of the various benefits and services that the state provides. The web application enables users to create an account, log in, explore, apply and monitor their applications on the internet, without the need of going to physical offices or completing paper forms. The web application has a user-friendly, secure and reliable design, with features such as password encryption, data validation and backup. Additionally, the web application offers feedback and support to users through email notifications, FAQs and chat-bots. By utilizing the government scheme web application, citizens can conserve time, money and effort, while benefiting from the convenience and transparency of the digital platform. Furthermore, the web application helps the state to improve its efficiency, accountability and responsiveness to the needs and preferences of the citizens.

6. REFERENCES

- [1] Suma, V., and Shavige Malleshwara Hills. "Student Scholarship Prediction using Machine Learning Algorithms". Journal of Soft Computing Paradigm (JSCP) 2, 2020 101-110.
- [2] Mitra, Ayushi. "Sentiment Analysis Using Machine Learning Approaches (Lexicon based on movie review dataset)." Journal of Ubiquitous Computing and Communication Technologies (UCCT) 2, 2020 145-152.
- [3] Madhav S. Vyas and Reshma Gulwani. "Predicting Student"s Performance using CART approach in Data Science", 2017 International conference of Electronics, Communication and Aerospace Technology (ICECA), India, 2017, pp.
- [4] Huda Al-Shehri, Amani Al-Qarni, Leena Al-Saati, ArwaBatoaq, Haifa Badukhen, Saleh Alrashed, Jamal Alhiyafi and Sunday O. Olatunji. "Student Performance PredictionUsing Support Vector Machine and K-Nearest Neighbors",2017 IEEE 30th Canadian on electrical and computer engineering(CCECE),Canada 2017.
- [5] Okfalisa, Ratik a fitriani, YelliVitriana, "The Comparison of Linear RegressionMethod and k- Nearest Neighbors in Scholarship Recipient" IEEE, 2018.
- [6] Angela R. Bielefeldt, "Characteristics of Engineering Faculty Engaged in the Scholarship of Teaching and Learning" IEEE, 2015.
- [7] Thalia Anagnos and Eva Schiorring, "Helping Students Get More than Teir Money from an Engineering Scholarship Program", IEEE, 2018.
- [8] Angela R. Bielefeldt, "Characteristics of Engineering Faculty Engaged in the Scholarship of Teaching and Learning", IEEE, 2015.
- [9] Saatci Sercan, Hande cansiz, gulsha aslan and erkan ozhan, "Artificial intelligence- based Scholarship DQG Credit pre-assessment system", IEEE, 2017.
- [10] G. Upton, "The Effects of Merit-Based

- Scholarships on Educational Outcomes", Journal of Labor Research, vol. 37, no. 2, pp. 235-261.
- [11] Ratik a fitriani Okfalisa and Yelli Vitriana, "The Comparison of Linear Regression Method and k- Nearest Neighbors in Scholarship Recipient", IEEE, 2018.
- [12] Jonalyn Joy B. Labayne, Lester L. Mercado and Jheanel Espiritu Estrada, "Model Development Of Students Scholarship Status at First at Asia Institute of technology Humanities(FAITH)", IEEE, 2018.
- [13] V. Suma and Shavige Malleshwara Hills, "Data Mining based Prediction of Demand in Indian Market for Refurbished Electronics", Journal of Soft Computing Paradigm.
- [14] (JSCP) vol. 2, no. 02, pp. 101-110, 2020.
- [15] T. Senthil Kumar, "Data Mining Based Marketing Decision Support System Using Hybrid Machine Learning Algorithm", Journal of Artificial Intelligence, vol. 2, no. 03, pp. 185-193, 2020.