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GovAI – Smart Government Scheme & Exam Finder Using Intelligent Eligibility Filtering

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ABSTRACT

The increasing number of government welfare schemes and competitive examinations in India has made it difficult for citizens to identify opportunities suitable for their eligibility. Most users face challenges due to scattered information sources, a lack of awareness, and complex eligibility conditions. To solve this problem, the proposed project "GovAI – Smart Government Scheme & Exam Finder" provides a web-based recommendation platform that suggests suitable government schemes and competitive examinations based on user details. The system collects information such as age, income, gender, occupation, educational qualification, and state from users. Using eligibility-based filtering logic, the application recommends relevant schemes and examinations along with application links. The system is developed using Python, Flask, HTML, and CSS, and deployed online using GitHub and Render. The proposed platform reduces manual searching effort, improves accessibility, and provides a centralised solution for personalised recommendations. The project also demonstrates the practical use of intelligent filtering systems and modern web technologies in improving public service accessibility.

Keywords: *Government Schemes, Recommendation System, Flask, Python, Eligibility Filtering, Web Application, Competitive Examinations, E-Governance, Citizen Support System.*

INTRODUCTION

Government schemes and competitive examinations provide important opportunities and benefits for Indian citizens. However, many people are unaware of the schemes and exams they are eligible for because the information is spread across multiple websites and platforms. Users often spend a lot of time searching manually and understanding complex eligibility criteria.

To solve this problem, the proposed system "GovAI" provides a smart web-based platform that recommends suitable government schemes and examinations based on user details such as age, income, education, occupation, gender, and state.

EXISTING SYSTEM

In the existing system, users search for schemes and examinations manually through different government websites. This process is time-consuming and confusing. Many users fail to identify opportunities suitable for them due to lack of awareness and scattered information sources.

PROPOSED SYSTEM

The proposed system is an intelligent recommendation platform that provides personalized government scheme and examination suggestions based on user eligibility. The system collects user information and applies filtering logic to display only relevant results. It helps users save time and improves accessibility to government opportunities.

OBJECTIVES OF THE PROJECT

i. To recommend government schemes based on eligibility
ii. To suggest suitable competitive examinations
iii. To reduce manual searching effort
iv. To improve awareness among citizens
v. To provide a centralized recommendation platform

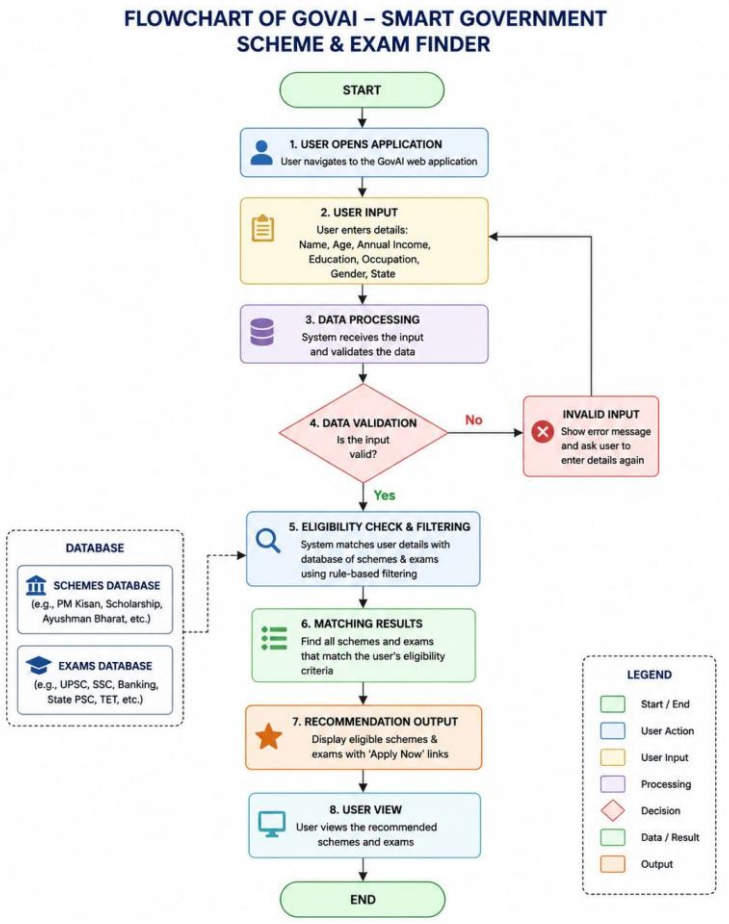
METHODOLOGY

The system collects user details such as age, income, education, occupation, gender, and state through a web form. The backend processes these details and applies eligibility filtering logic. Based on the matching criteria, the system displays suitable government schemes and examinations along with application links.

TECHNOLOGIES USED

- Python – Backend programming
- Flask – Web framework
- HTML – Webpage structure
- CSS – User interface design

- GitHub – Source code hosting
- Render – Online deployment platform

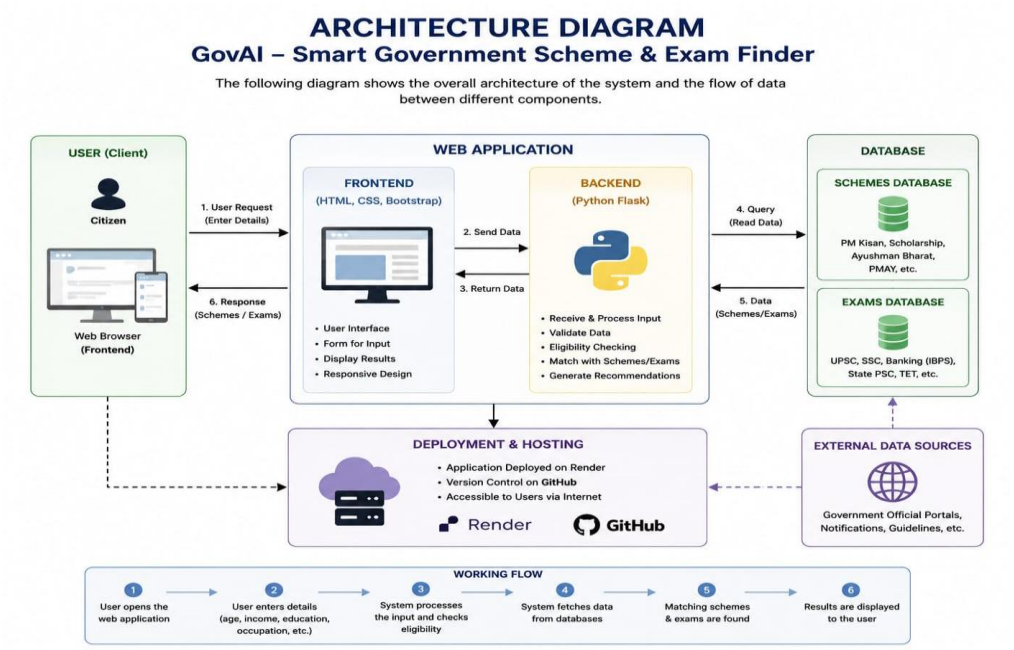


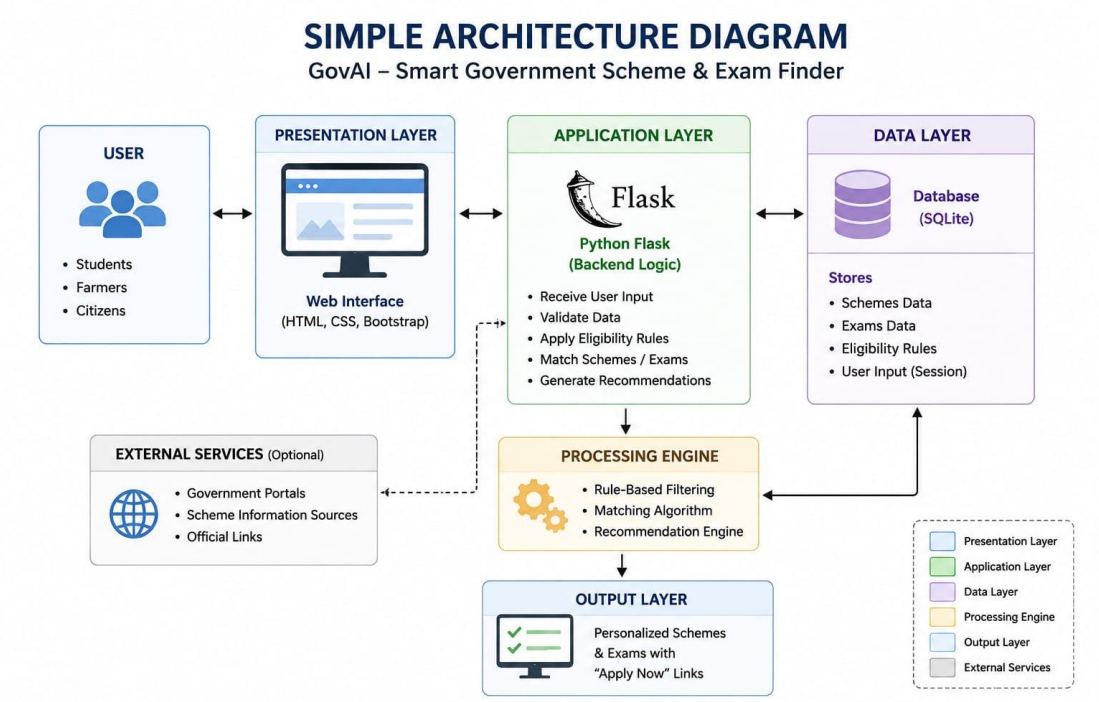
SYSTEM ARCHITECTURE

The architecture consists of three main parts: frontend, backend, and dataset. The frontend collects user information through a web interface. The backend processes user inputs using filtering logic. The dataset contains details of schemes and examinations. The final output is displayed to the user in the browser.

IMPLEMENTATION

The application was developed using Flask and deployed online using GitHub and Render. A responsive user interface was designed to provide a simple and professional user experience. The filtering logic was implemented in Python to generate personalized recommendations.

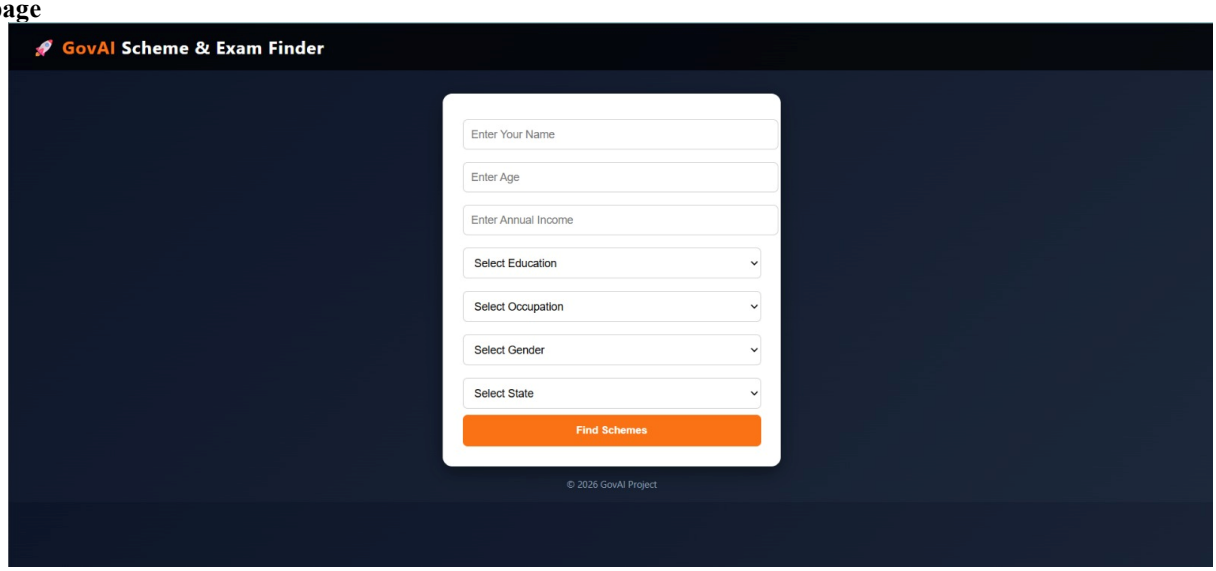




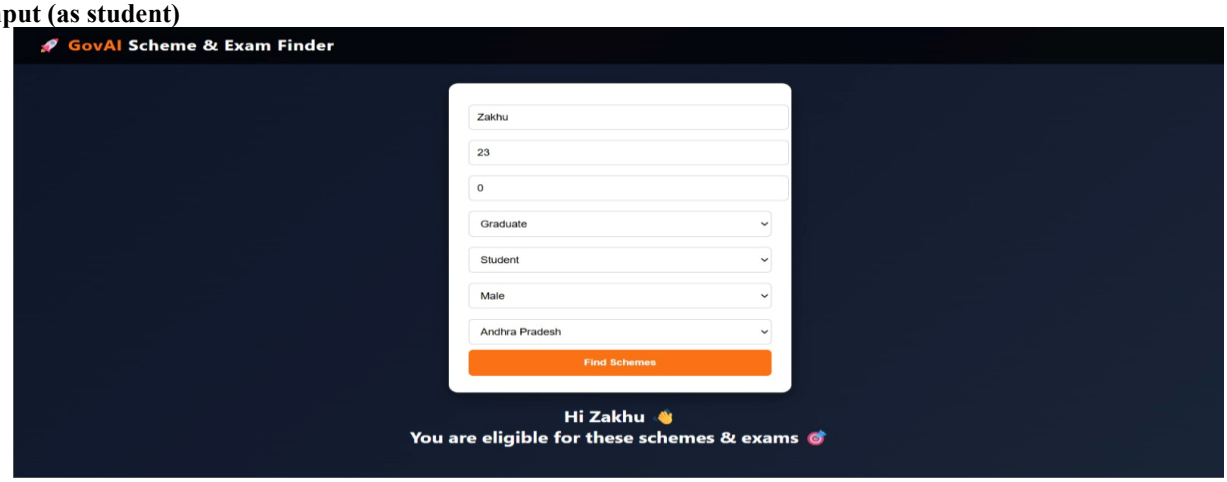
RESULTS AND DISCUSSION

The system successfully recommends suitable government schemes and examinations based on user inputs. Different users receive different outputs according to their eligibility criteria. The application provides accurate filtering and improves user accessibility.

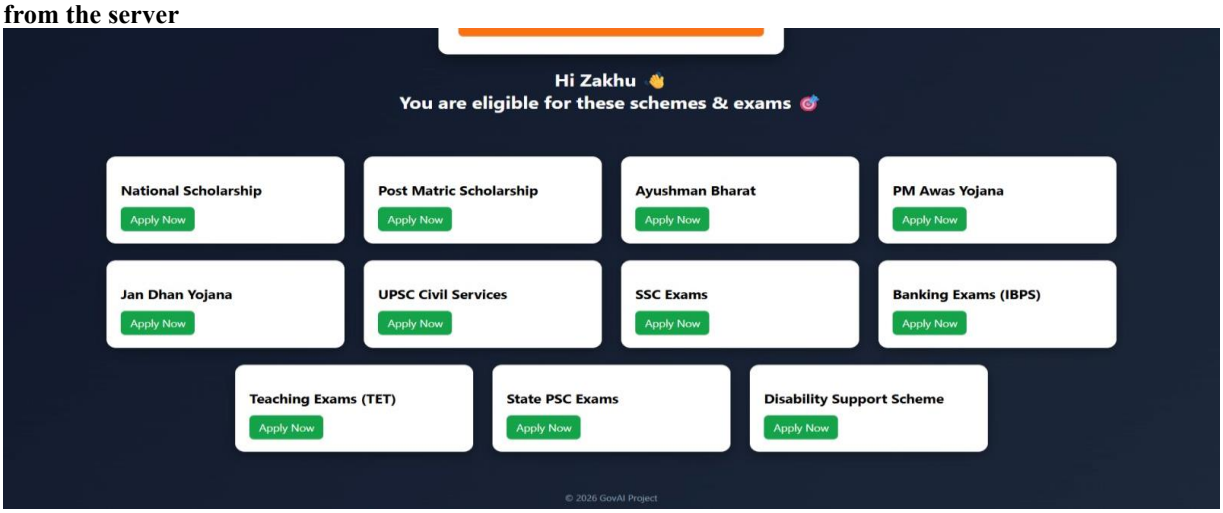
Home page



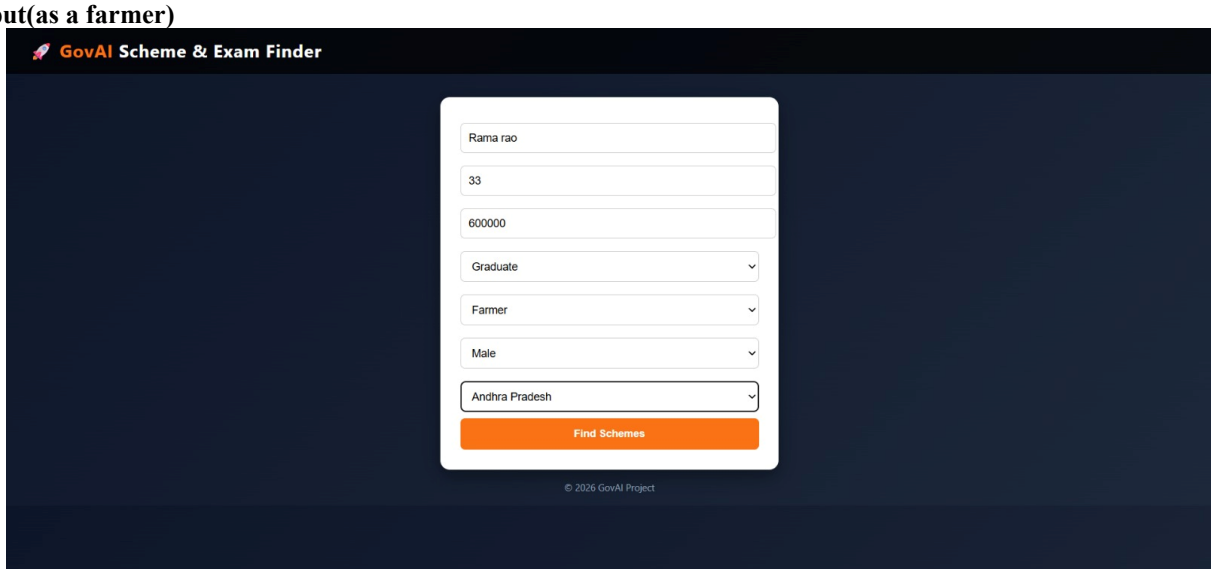
User input (as student)



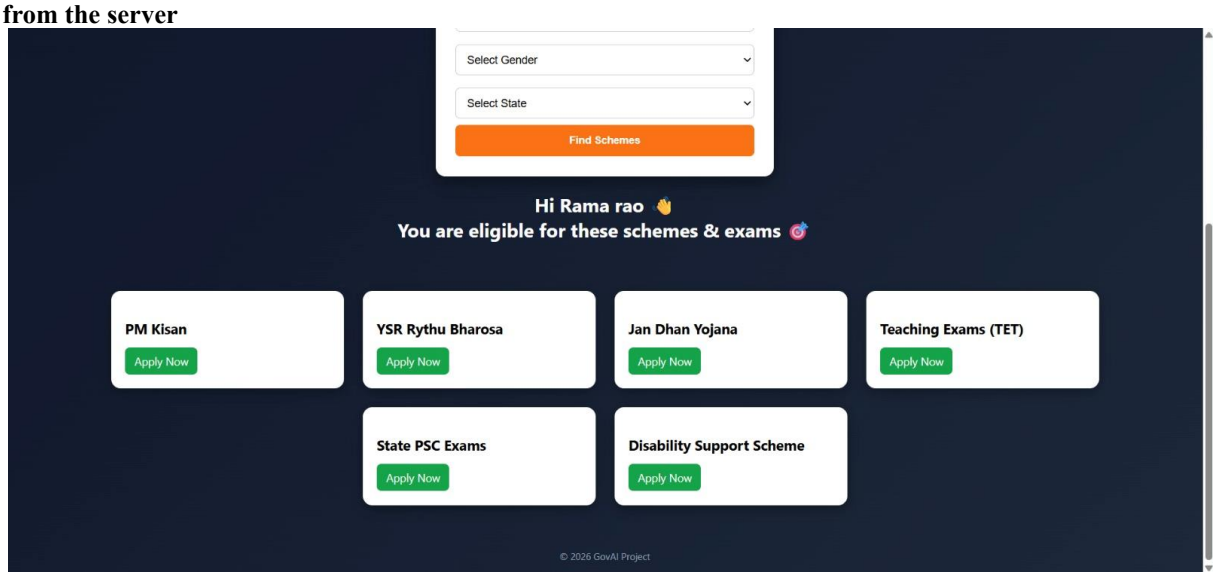
Output from the server



user input(as a farmer)



Output from the server



ADVANTAGES

i. Simple and user-friendly system
ii. Reduces searching time
iii. Provides personalized recommendations
iv. Easily accessible online
v. Improves awareness of government opportunities

FUTURE ENHANCEMENTS

i. Integration of Artificial Intelligence and Machine Learning
ii. Mobile application development
iii. Multi-language support
iv. Real-time government data updates
v. User login and profile system

CONCLUSION

GovAI provides a smart and efficient platform for recommending government schemes and competitive examinations. The system reduces confusion, saves time, and helps users identify opportunities suitable for their eligibility. The project demonstrates the practical use of web technologies in improving public service accessibility.

REFERENCES

[1] Python Official Website
[2] Flask Documentation
[3] GitHub
[4] Render Cloud Platform
[5] All the schemes and exams portal links