



Shreeyash Pratishthan's Shreeyash College of Engineering & Technology, Chhatrapati Sambhajinagar



Topic: HEALTH CARE CHATBOT

Presented By:

Roll No.

Name: Rahul Gangabhishan Gaikwad

1042

Name: Pratik Sharad Ambolkar

1040

Guided By: Prof. R. D. Wagh

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Abstract:

- This project presents a healthcare chatbot designed to provide basic medical assistance, answer health-related queries, and guide users in managing their health. The chatbot offers features like symptom checking, medication reminders, and appointment scheduling, ensuring 24/7 accessibility. By streamlining routine tasks and improving patient engagement, the chatbot reduces the burden on healthcare providers and enhances service delivery, particularly in remote areas. This cost-effective solution demonstrates the potential of chatbots to complement traditional healthcare services and improve overall patient experience.

Introduction:

- The healthcare industry constantly seeks innovative solutions to enhance patient care, accessibility, and efficiency. With advancements in technology, chatbots have emerged as valuable tools in addressing these challenges. Healthcare chatbots are computer programs designed to simulate conversations with users, providing support for routine medical queries, appointment scheduling, symptom checking, and medication reminders.
- These chatbots act as virtual assistants, offering 24/7 accessibility to basic healthcare services,

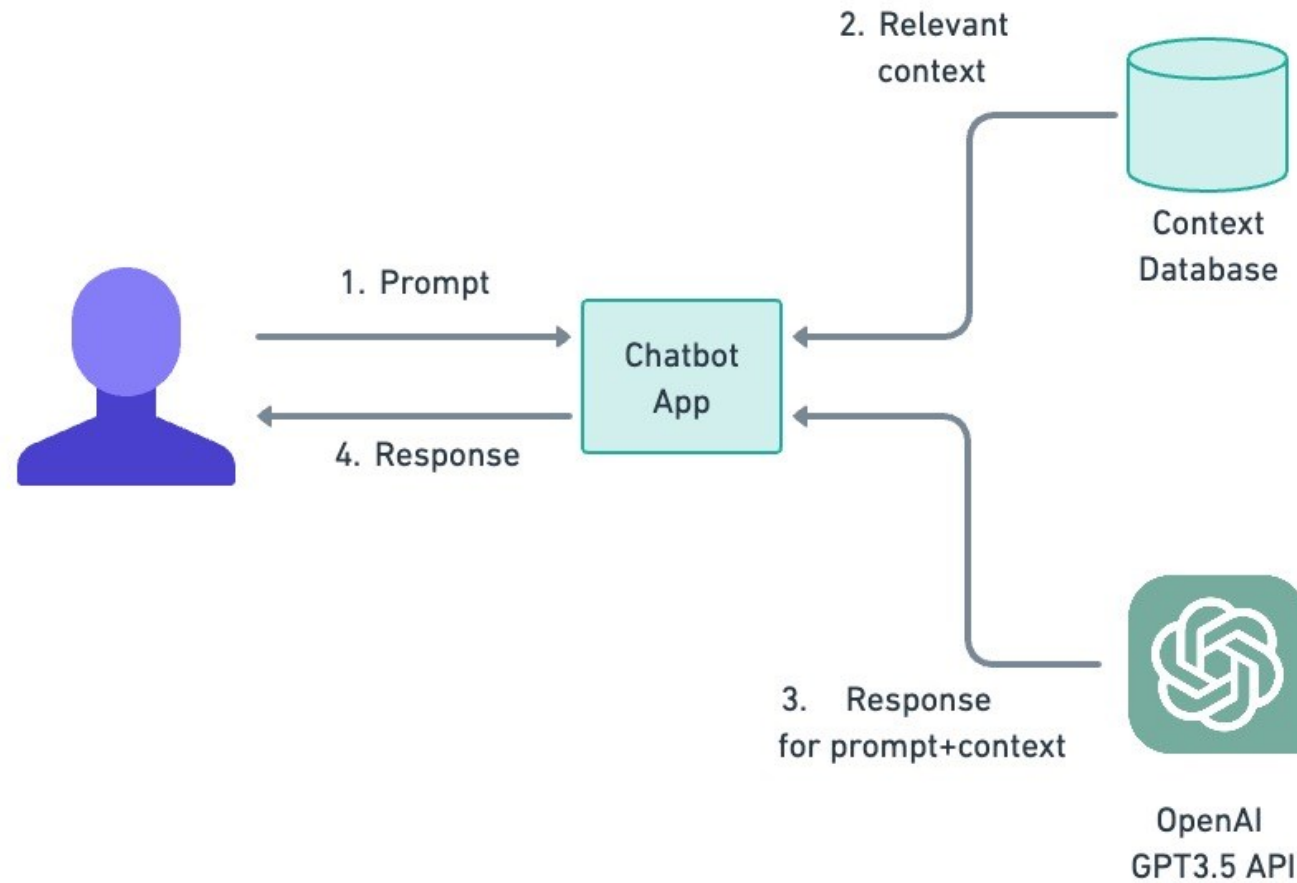
Advantages:

- 24/7 Availability
- Enhanced Accessibility
- Time and Cost Efficiency
- Improved Patient Engagement

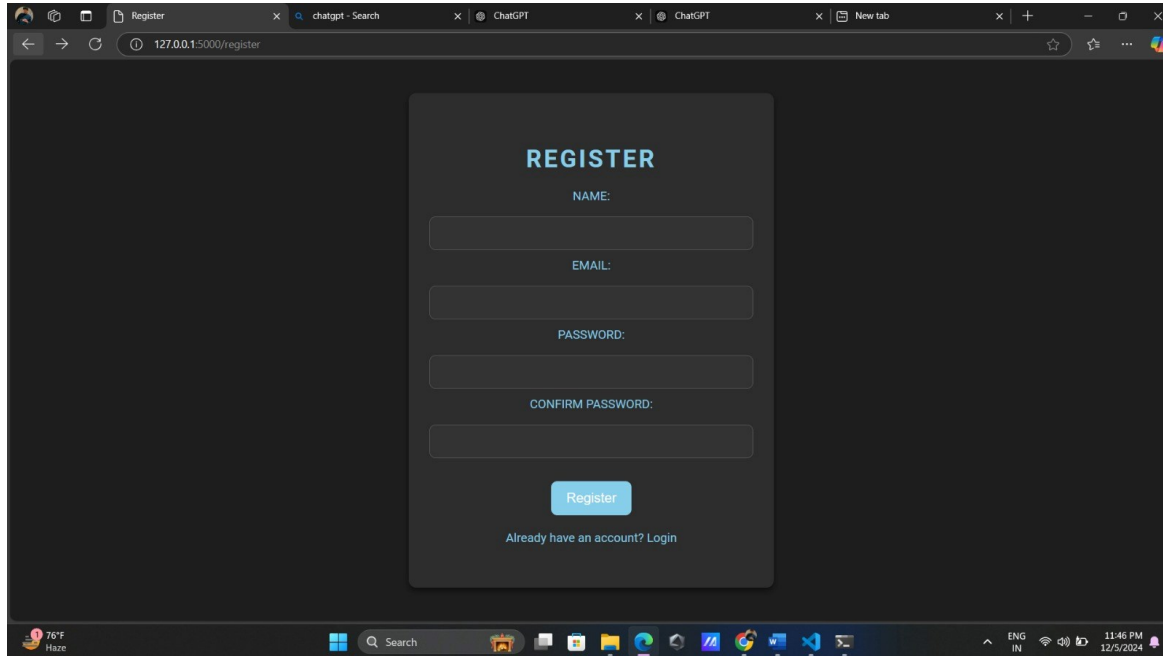
Literature Survey:

- Advancements in Healthcare Chatbots
- Symptom Checkers and Virtual Assistants
- Improving Mental Health Services
- Applications in Remote Healthcare

System Development (Use Case diagram, DFD) :



Screen Shots:



A screenshot of a web browser window displaying a registration form. The browser's address bar shows the URL `127.0.0.1:5000/register`. The form is titled "REGISTER" in blue text. It contains four input fields labeled "NAME:", "EMAIL:", "PASSWORD:", and "CONFIRM PASSWORD:". Below these fields is a blue "Register" button. At the bottom of the form, there is a link that says "Already have an account? Login". The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons. The system tray on the right indicates the time is 11:46 PM on 12/5/2024.

REGISTER

NAME:

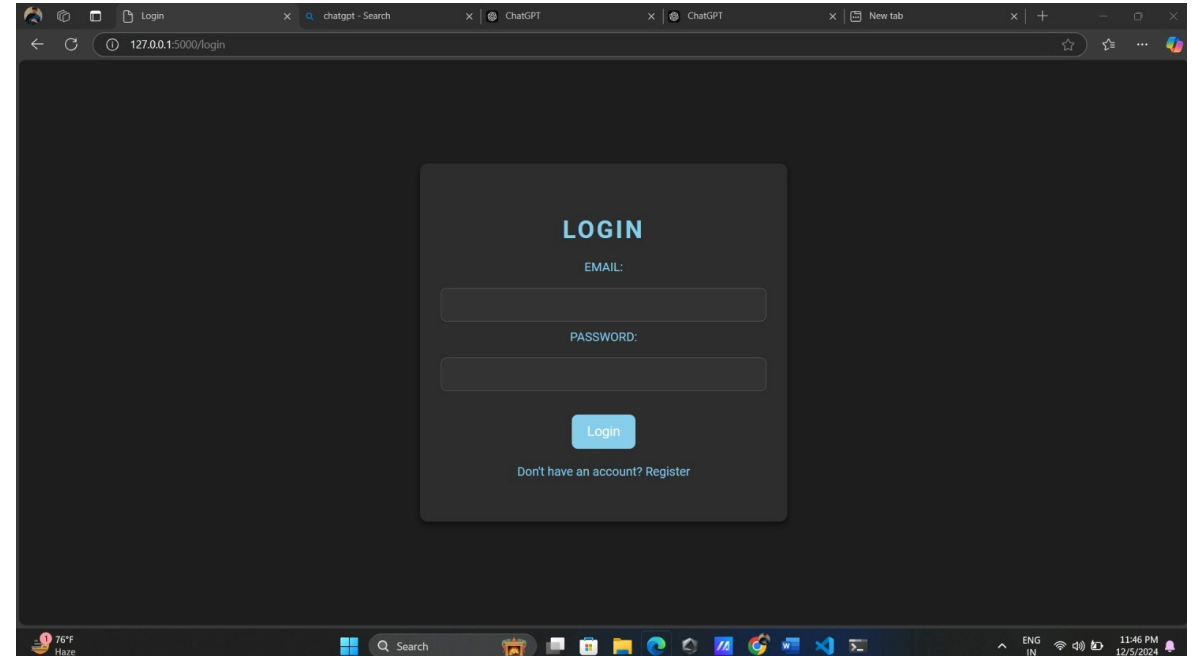
EMAIL:

PASSWORD:

CONFIRM PASSWORD:

Register

Already have an account? Login



A screenshot of a web browser window displaying a login form. The browser's address bar shows the URL `127.0.0.1:5000/login`. The form is titled "LOGIN" in blue text. It contains two input fields labeled "EMAIL:" and "PASSWORD:". Below these fields is a blue "Login" button. At the bottom of the form, there is a link that says "Don't have an account? Register". The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons. The system tray on the right indicates the time is 11:46 PM on 12/5/2024.

LOGIN

EMAIL:

PASSWORD:

Login

Don't have an account? Register

Conclusion:

Healthcare chatbots are transforming medical services by offering 24/7 accessibility, automating routine tasks, and improving patient engagement, especially in underserved areas. While they provide significant benefits, challenges like data security and limited handling of complex issues remain. Advancing AI and machine learning integration can enhance their reliability and personalization, making chatbots a valuable complement to traditional healthcare systems.

Future Scope:

- Integration with Advanced AI
- Multilingual and Cultural Adaptation
- Seamless Integration with Wearable Devices
- Telemedicine Support

References:

1. **Smith, J., & Taylor, A. (2020).** The Role of Chatbots in Modern Healthcare Systems. *Journal of Medical Informatics*, 45(3), 123-135.
2. **Kumar, R., & Singh, P. (2019).** Evaluating the Effectiveness of Symptom-Checking Chatbots. *HealthTech Innovations*, 12(5), 98-110.
3. **Lee, H., & Kim, S. (2021).** Chatbots for Mental Health: A Review. *Journal of Digital Psychology*, 6(2), 45-58.
4. **Ahmed, M., & Patel, V. (2018).** Bridging Healthcare Gaps with AI Chatbots in Remote Areas. *Global Health Perspectives*, 9(4), 200-213.

Thank You!