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Online Medical Booking Store with AI Chatbot

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Abstract: This research paper considers the development of medical online bookings using intelligent chatbots to improve the user experience and simplify the health process. The platform allows users to plan effective medical appointments, order medications, and receive medical information. Users with AI and chatbots will receive immediate support, personalized recommendations and notifications for a smoother and more user-friendly experience. This study examines chatbot technology integration, impact on user interaction, and potential platforms to improve delivery and performance of healthcare systems, schedules, and living procedures.

Keywords: Online medical appointments, health technology, Planning, Online Pharmacy, Pet Medicine, Prescription Verification.

I. INTRODUCTION

With the rise of digitalization, traditional methods for acquiring healthcare are occurring quickly. Pet healthcare is an area where users face challenges when accessing the medication they need, especially in the semi-environment and rural areas. The proposed system "Online Medical Booking Stores with AI Chatbot" provides a central platform for online ordering of pet medicines. User--It has a friendly interface, secure registration, recipe upload function, and AI control instructions. This approach reduces the process of trust providers, promotes digital capabilities, and ensures accurate medical performance. By integrating chatbot technology, the system provides a highly interactive user experience and ensures round-the-clock support.

II. METHODOLOGY

A. System Design:

Platform design is carried over online and on mobile chat devices. Patients can develop, announce illnesses and services, make appointments, and get medication.

B. AI Chatbot Framework:

Chatbots use machine learning and NLP models (such as BERT and GPT-based systems) to understand and answer user questions. The bot is integrated into a backend platform and gains secure access to appointments and patient information to provide personalized answers.

C. Privacy:

Create users, store treatments, and schedule history. Data protection agreements are used to comply with HIPAA and GDPR. Consent and review.

D. NLP Technology:

Technology such as keyword extraction, mood analysis, and organizational detection helps chatbot access to hard questions. Health tips, share them near the location or send me a drug alarm.

III. LITERATURE REVIEW

The latest report highlights the effectiveness of AI chatbots in efficient management of patient commitments and healthcare. Research shows that chatbots reduce management by addressing daily questions, planning daily, and focusing physicians on clinical tasks. Algorithms for machine learning, such as the chatbot Word2vec and Bert, were effectively and clearly managed with high accuracy and accuracy of conversations and answers. Research shows that an online platform with integrated AI solutions has increased user loyalty and satisfaction with individual development.

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A. AI Chatbots Supporting Health Systems

Recent exams show that AI Chatbots in Healthcare simplify patient and daily management. Wang and Dong (2020) said chatbots with machine learning and natural language processing (NLP) can reduce many questions, reduce the burden on medical staff and increase patient satisfaction. They found that effective chatbot models often include emotional and cognitive analyses, and that intelligence can provide personalized response and response health services.

B. AI reduces workloads in health systems

AI chatbots are increasingly used to perform administrative tasks, reducing physician workloads. According to Mangassarians and Artail (2021), chatbots enable data, memory and routines. Their results show that this change not only increases job efficiency, but also increases job satisfaction through redesigned healthcare professionals.

C. Health System AI and Patient Compliance

Singh and Kumar (2020) research shows that AI chatbots can increase healthcare compliance. Your study showed that automatic memory of medication, appointments, and lifestyle recommendations in chronically ill patients exhibit a positive effect of intelligence on long-term health management.

D. Using Hybridization Models in Chatbots in Healthcare

Shows that hybrid-KI models, which regularly combine basic and machine learning, are ideally implemented in healthcare. Lu et al. (2021) found that the rule-based method is effective for simple queries and that machine learning is more interactive. The hybrid model allows the system to adapt to everyday problems, provide flexible responses to complex situations, and increase user satisfaction.

E. The impact of AI on patient commitment and satisfaction

A study by Hart and Green (2021) showed collaboration and satisfaction among patients who interacted with medical chatbots due to simplicity and immediate response. This study concluded that chatbots improve the user experience by reducing the need to call or visit clinics to create daily routines.

F. AI reduces workloads in health systems

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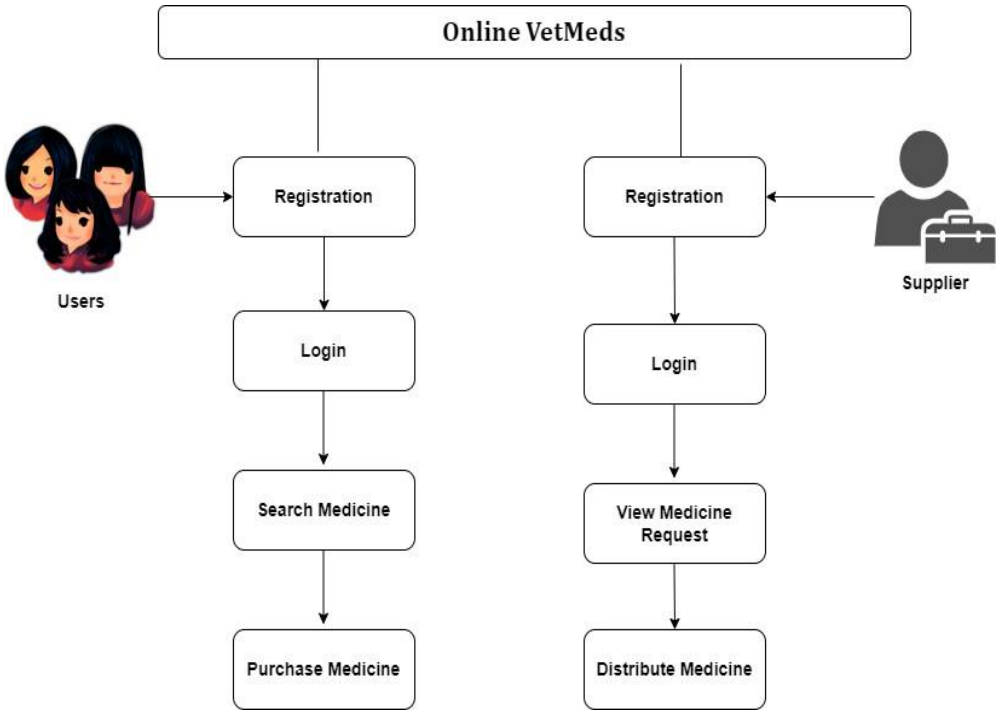
IV. ARCHITECTURAL DESIGN



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V. DISCUSSION

The development and implementation of online media booking stores using AI chatbots illustrate key steps towards digital transformation in the pet healthcare sector. The system successfully integrates a variety of modules, including prescription testing, chatbot interaction, secure ordering, real-time tracking, and more, all within a user-friendly web interface. Chatbots can answer frequently asked questions, direct users through the registration and ordering process, and create relevant health and medications.

Currently based on a regular basis, this provision improves user usage and reduces the burden of manual customer support. With prescription upload requirements and medication allocation, the platform limits unauthorized sales and promotes responsible behavior in the health care system. Additionally, delivery systems that connect users with validated pet medicine providers can help bridge the gap between accessibility and region. While AE has proven effective when maintaining data confidentiality during transactions, MD5 has been upgraded to SHA-256 in a future version for improved security.

Additionally, some users presented digital recipes during upload due to data protection concerns. These limitations indicate the need for stronger trust mechanisms and better public relations.

VI. FUTURE SCOPE

Integrating Multilingual Support Using NLP Technology
Future versions can include natural language processing to support regional language support. This allows users to conveniently interact with the system on various language backgrounds.

Expansion to healthcare with humans
The platform can be updated to meet human health care needs by uploading users, allowing you to order medicines for yourself and your family.

Implementing real-time GPS tracking for delivery
Adding GPS based tracking allows users to monitor medical order status and expected delivery times in real time

Adding payment gateways and accounting management
Secure, integrated online payment options and automated invoice generation improve your users' financial transparency and comfort.

VII. CONCLUSION

This study shows that integrating KI chat with online skin companies provides effective solutions to improve access to healthcare systems and patient companies. The platform's ability to perform daily tasks allows doctors to focus on treatment. Additionally, AI-controlled personalization ensures patient satisfaction by adapting services to individual needs. Future research can expand this model by integrating expanded testing methods and improving chatbot skills.

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