Online Medicine Seller System Using Android Application

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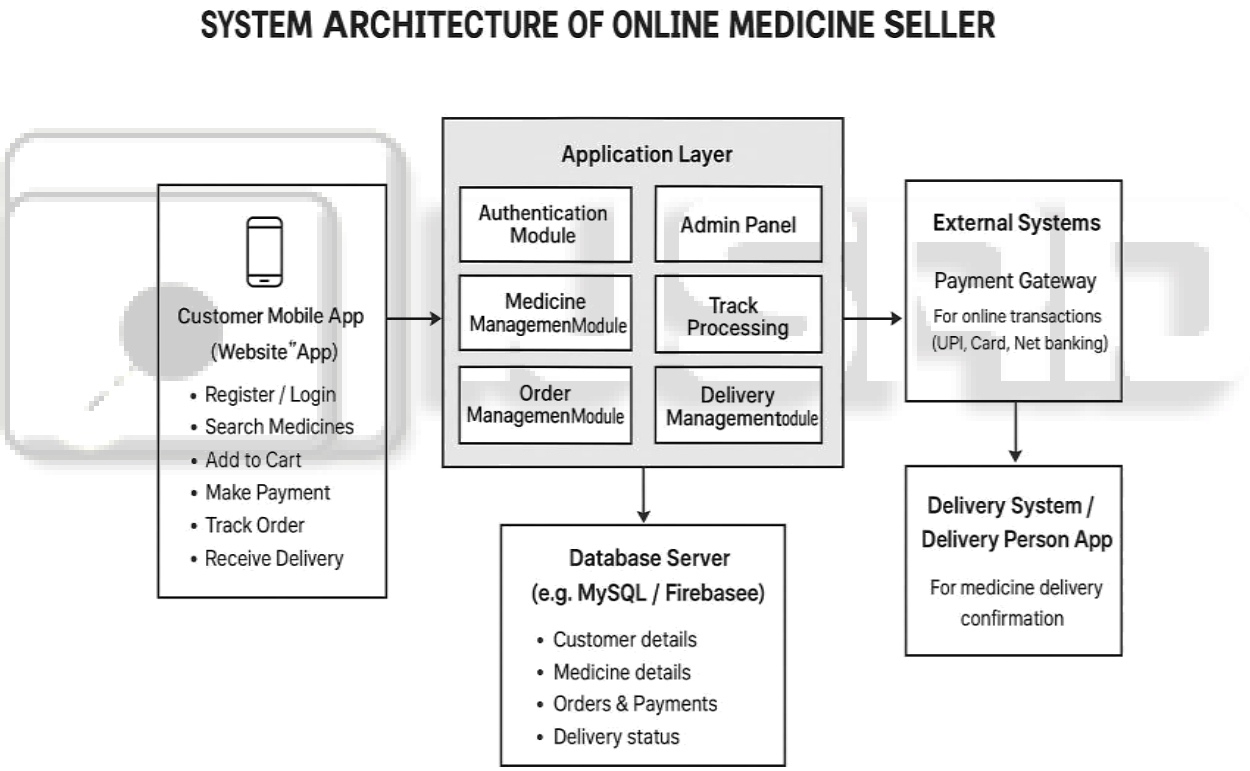
Abstract — The rapid growth of mobile technology has transformed healthcare services by enabling users to access medicines online. An Online Medicine Seller System allows users to search medicines, upload prescriptions, add products to cart, and place orders through a mobile application. This paper presents the design and implementation of an Android-based online medicine selling system that improves accessibility, saves time, and ensures secure transactions. The system also provides features such as order tracking and notifications to keep users informed about their purchases.

Keywords: Online Medicine Delivery, Android Application, E-Pharmacy System, Prescription Upload, Secure Online Transactions, Healthcare Accessibility

I. Introduction

Traditional medicine purchasing requires users to visit medical stores physically, which can be time-consuming and inconvenient. With increasing internet usage, online medicine selling systems provide a digital platform to purchase medicines easily. The proposed system focuses on user convenience, secure payments, and efficient order management. The system also supports prescription uploads to ensure safe and authorized medicine delivery. Furthermore, real-time order tracking and notifications enhance user experience and reliability.

II. Methodology



The system is developed using an Android application for users and a backend database for managing medicines and orders. The development process includes requirement analysis, system design, implementation, testing, and deployment.

A. Functional Modules

User Login Module: Allows users to register and securely log into the application. Medicine Searching Module: Enables users to search medicines by name or category. Add to Cart Module: Users can add selected medicines to the cart. Cart Module: Displays selected items, quantity, and total cost before order placement.

B. Testing

The system is tested using functional and integration testing methods. Each module is tested to ensure correct operation, data accuracy, and smooth user interaction. Test cases were designed to validate login authentication, medicine search functionality, cart operations, and order placement. The results confirm that the system performs reliably under normal usage conditions.

III. Literature Survey

Previous studies show that online medicine seller applications help users purchase medicines easily through mobile or web platforms. Research on mobile health applications highlights that Android-based apps improve healthcare accessibility and

save time. Studies on prescription-based systems ensure safe medicine delivery through prescription upload and verification. Secure online payment systems increase user trust and data security. Overall, existing systems provide convenience, and the proposed app improves usability, security, and efficiency.

IV. Result and Discussion

The system successfully performs core functions such as user login, medicine searching, adding items to the cart, and managing cart details. The application provides a smooth user experience and reduces the effort required to purchase medicines. The system demonstrates reliable performance with minimal response time during user interactions. Test results indicate improved efficiency and accuracy in order processing compared to traditional methods. The application ensures secure handling of user data and transactions through proper authentication mechanisms. Overall, the system proves to be a practical and scalable solution for online medicine purchasing.

V. Conclusion and Future Work

The Online Medicine Seller System provides an efficient solution for purchasing medicines online. It improves accessibility and user convenience. Future extensions of this work may focus on doctor consultation, AI-based medicine recommendations, and real-time delivery tracking.

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