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Smart Care & Care

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Abstract

The Smart Care & Care is designed to streamline hospital operations through Doctor Login and Administration Login portals. Doctors can access patient records, update treatment details, and manage appointments efficiently. The administration panel enables hospital staff to oversee finances, inventory, and resource management. This system enhances security, workflow automation, and patient care data. By integrating technology, SCC ensures seamless hospital management and improved healthcare services.

Keywords: Doctor Login page, Home page Management login page, home page

Introduction

The Smart Care & Care is a digital solution designed to streamline hospital operations, improving efficiency and patient care. It integrates various departments, including administration, doctors, nurses, pharmacy, and laboratories, ensuring seamless communication. automates patient records, appointment scheduling, billing, and inventory management, reducing manual errors. It enhances data security, accessibility, and decision-making through real-time information updates. Overall, optimizes hospital workflow, leading to better healthcare services and resource management.

Literature Review

Initially, a collection of results was gathered from the databases that were searched using various keywords. Only studies that used maturity models were examined from the results. The studies that did not make use of maturity models were dropped. Operational efficiency and wait times across various procedures, departments, and people are two of the biggest problems current hospital management systems are facing [4]. The solution includes visual simulation and gives users the power to examine current processes and make necessary corrections to boost service levels and process efficiency. A final sample of 41 surveys was created because of this method. 82.93% of them are spread among a variety of pieces, with doctorate dissertations making up 7.32% and expert's dissertations 9.76% of the total [3,7].

a. Existing Systems Organization's storage on a daily basis. All of these details are currently kept in the file system. There will accumulate several files because of this daily basis. The hospitals manage and handle every single task by hand. Therefore, it could require a lot of time and effort to complete each activity.
b. Existing System Problem The existing system requires a lot of time. Absence of security components Every task needs to be completed by hand.

Methodology

The system was developed using the Agile methodology to ensure flexibility and iterative improvements. Requirements were gathered from hospital staff and used to design a modular system architecture. Development was done using web technologies, with a focus on security and usability. Rigorous testing was performed at each stage to ensure functionality and performance. Finally, the system was deployed and users were trained for smooth adoption. Requirement Analysis Requirement Analysis – Identifies hospital needs, including patient records, appointment scheduling, billing, and inventory management. Feasibility Study – Evaluates technical, financial, and operational

feasibility to ensure successful HMS implementation. System Design – Defines architecture, database structure, and user interface for seamless hospital workflow integration. Implementation & Testing – Deploys the system, conducts testing to ensure functionality, and fixes any identified issues. Maintenance & Upgrades – Ensures continuous monitoring, updates, and improvements for better performance and security.

Results and Discussion

The implemented successfully streamlined various care & care hospital operations, including patient registration, appointment scheduling, and billing. Users reported increased efficiency and reduced paperwork, leading to faster service delivery. The integration of electronic medical records improved data accessibility and minimized redundancy. System performance remained stable under multi-user load, validating its scalability and reliability. Feedback from hospital staff indicated a user-friendly interface and improved communication across departments. The analytics dashboard provided real-time insights into patient flow and resource utilization. However, minor issues were observed during the initial deployment, mainly related to user adaptation. These were resolved through training and support.

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