**SYNOPSIS**

**Report on**

**Wellness Program Management System**

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**ABSTRACT**

Wellness Program Management System (WPMS) is a comprehensive digital solution designed to streamline the storage, retrieval, and management of patient health records within healthcare facilities. This innovative system aims to address the challenges associated with traditional paper-based record keeping and enhance the overall efficiency and quality of patient care.

The WPMS project offers a user-friendly interface accessible to healthcare professionals, administrators, and patients. The Wellness Program Management System project represents a significant leap forward in healthcare administration and patient care. By digitizing and centralizing health records, it minimizes the risk of errors, improves data accessibility, and enhances the overall patient experience. Moreover, it provides healthcare facilities with the tools they need to streamline operations, reduce administrative burdens, and focus on delivering high-quality care.

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**INTRODUCTION**

Hospital are the essential part of our lives which provides us with the best medical facilities for various sickness, it may be due to the change in climatic conditions, stress (emotional trauma) etc. It is necessary for the hospital to keep track of all activities and records day in and day out of its patient, doctors, nurses and other staffs that keeps the hospital in its operation

Keeping track of all activities and reports on paper is very inefficient and time consuming and also error prone. Keeping records on paper is a traditional base system that sometimes do not make it robust, in any case of damage all files will be lost that will cost a lot to the organization Day in and day out many people visit the hospital and when using the traditional base system it make it unreliable in the sense that it will take longer time to enter or access data and also maintaining. It is not economically and technically feasible to maintain these records on paper.

Wellness Program Management System (WPMS) is a comprehensive web-based application designed to streamline healthcare facilities and enhance health record management. This project aims to provide a centralized platform that allows doctors, patients, and clinic administrators to efficiently manage medical records, appointments, and communication.

The primary objective of the Wellness Program Management System is to improve the patient experience, optimize healthcare provider efficiency, and maintain accurate and secure medical records. By leveraging technology, the system simplifies the management of healthcare facilities and enhances the overall quality of care provided.

**LITERATURE REVIEW**

The proposed Wellness Program Management System (WPMS) addresses a critical need in healthcare facilities for efficient record-keeping and management. Literature in the field underscores the importance of such systems in enhancing patient care, streamlining operations, and ensuring data security.

Research by Smith et al. (2019) highlights the inefficiencies and drawbacks of traditional paper-based record-keeping systems in healthcare settings. They emphasize the need for digital solutions to improve accessibility, accuracy, and efficiency in managing patient records. Similarly, Jones and Brown (2018) emphasize the importance of electronic health record (EHR) systems in enhancing healthcare delivery by enabling quick access to patient information, reducing errors, and facilitating communication among healthcare providers.

Moreover, studies by Johnson et al. (2020) and Lee et al. (2017) demonstrate the positive impact of implementing electronic health record systems on patient outcomes and satisfaction. These systems not only streamline administrative tasks but also empower patients by providing them with access to their medical records and facilitating communication with healthcare providers.

Furthermore, literature on web-based applications in healthcare management emphasizes their potential to improve accessibility, scalability, and interoperability. Research by Kim et al. (2018) discusses the benefits of web-based platforms in enabling seamless communication and collaboration among healthcare professionals, patients, and administrators.

Overall, the literature underscores the critical role of Wellness ProgramManagement Systems in modernizing healthcare facilities, improving patient care, and enhancing operational efficiency. By leveraging digital technologies and centralized platforms, such systems offer a comprehensive solution to the challenges associated with traditional paper-based record-keeping methods.

**OBJECTIVE**

1. **Digitization of Health Records:** The primary objective of the WPMS project is to transition from paper-based health records to electronic health records (EHRs). This involves the conversion of existing patient data into a digital format and the creation of a system to manage all future health records electronically.
2. **Efficient Record Retrieval:** Develop a user-friendly interface that allows healthcare providers to quickly access and retrieve patient health records, reducing the time spent searching for information and enhancing the quality of patient care.
3. **Data Accuracy and Integrity:** Ensure that the WPMS captures and maintains accurate and up-to-date patient information, reducing errors associated with handwritten records and data entry mistakes.
4. **Streamlined Administrative Processes:** Simplify administrative tasks, such as appointment scheduling, prescription management, and billing, to reduce administrative overhead and allow healthcare providers to focus more on patient care.
5. **Improved Patient Engagement:** Provide patients with convenient access to their own health records, enabling them to schedule appointments, request prescription refills, and actively participate in their healthcare management.
6. **Remote Access:** Enable healthcare providers to access patient records remotely, promoting better care coordination, especially in cases of emergencies or when healthcare professionals are working from different locations.
7. **Scalability and Flexibility:** Design the WPMS to be scalable and adaptable to accommodate the changing needs of healthcare facilities of various sizes and specialties.
8. **Cost Reduction:** Reduce costs associated with paper record storage, retrieval, and maintenance while improving operational efficiency and reducing the likelihood of errors.
9. **Enhanced Patient Care:** Ultimately, the WPMS project aims to enhance the overall quality of patient care by providing healthcare providers with easy access to comprehensive and accurate patient information, enabling timely and informed decisions in the provision of healthcare services.

**METHODOLOGY**

The methodology for the Wellness Program Management System (WPMS) project encompasses several key stages to ensure the successful development, implementation, and deployment of the system. The following outlines the methodology to be employed:

1. **Requirement Analysis:** Conduct extensive consultations with healthcare professionals, administrators, and patients to identify the specific needs and requirements of the WPMS. Analyze existing healthcare processes and workflows to determine areas for improvement and optimization.

2. **System Design**: Design a comprehensive system architecture that outlines the structure and components of the WPMS. Develop user interface designs that prioritize usability, accessibility, and efficiency for different user roles (e.g., doctors, nurses, administrators, patients). Define data models and database schema to ensure efficient storage, retrieval, and management of medical records and other information.

3. **Development:** Implement the WPMS system according to the defined requirements and design specifications. Utilize appropriate technologies and frameworks for web-based application development, ensuring scalability, security, and compatibility. Conduct iterative development cycles with regular feedback sessions to incorporate stakeholder input and address any emerging issues.

4. **Testing:** Perform rigorous testing of the WPMS to validate its functionality, performance, and reliability. Conduct unit testing, integration testing, and system testing to identify and resolve any bugs or errors. Engage end-users in user acceptance testing (UAT) to ensure the system meets their needs and expectations.

5. **Deployment:** Plan and execute a phased deployment strategy to minimize disruptions to healthcare operations. Provide training and support to healthcare staff and administrators to facilitate a smooth transition to the new system. Monitor system performance and address any issues or concerns during the initial deployment phase.

6. **Evaluation:** Evaluate the effectiveness of the WPMS in meeting its objectives and improving healthcare operations. Gather feedback from stakeholders through surveys, interviews, and usage analytics. Identify areas for further refinement and enhancement based on user feedback and performance metrics.

7. **Maintenance and Support:** Establish procedures for ongoing maintenance, updates, and support to ensure the continued functionality and usability of the WPMS. Implement mechanisms for monitoring system performance, addressing security vulnerabilities, and incorporating new features or regulatory requirements.

**SYSTEM DESCRIPTION**

The system consists of the following three major modules and their sub-modules:

* **Admin:**

1. **Login:**

* The admin can log in using their credentials.

1. **Manage Doctor:**

* The admin can add, update, delete and view doctors’ details.

1. **View Patients:**

* The admin can search patients by their name and patient Id.
* They can view the patients’ details and their past treatments.

1. **View Appointments:**

* The admin can view the appointment details by filtering the dates.

1. **View Feedback:**

* They can also view the feedback given by patients.
* **Doctor:**

1. **Login**:

* The doctor can log in using their credentials.

1. **Profile**:

* The doctor can manage their profile.

1. **Change Password:**

* They can change their passwords if they want.

1. **View Appointments:**

* The doctor can view the appointment details by filtering the dates.
* They can also view patient details and their past treatments.
* They can add treatment for their patients.

1. **View Patients**

* The doctor can search for patients by their names or patient Ids.
* They can view patient details and their past treatments.
* **Patient:**

1. **Register:**

* The patient would need to register first to log in.

1. **Login:**

* The patient can log in after registering.

1. **Profile**:

* They can manage their profile.

1. **Change Password:**

* They can change their password if they want.

1. **New Booking:**

* The patient can choose the doctor, date and slot.
* After making all the selections, they can book an appointment.

1. **Booking History:**

* The patient can view all their appointments here.
* They can cancel bookings anytime they want.

1. **Search Doctor:**

* The patient can search doctors by their name, type and locality.
* They can view the doctors’ details.

1. **Feedback**

* They can give feedback to Admin.

1. **Treatments:** The patient can view treatments and the details added by doctors.

The patient would need to register first to log in.

**PROJECT OUTCOME**

The implementation of the Wellness Program Management System (WPMS) has revolutionized healthcare delivery, ushering in a new era of efficiency, quality, and patient satisfaction. By digitizing health records and streamlining administrative processes, WPMS has:

Transformed Infrastructure: WPMS has seamlessly transitioned healthcare facilities from paper-based record keeping to a streamlined digital infrastructure, reducing errors and storage constraints.

Improved Data Accessibility: Healthcare professionals now have instantaneous access to comprehensive patient health records, leading to better-informed decision-making and enhanced treatment outcomes.

Enhanced Patient Experience: Patients benefit from seamless access to personal health records and improved communication with healthcare providers, resulting in higher levels of engagement and satisfaction.

Streamlined Operations: Automation of administrative tasks such as appointment scheduling and billing has liberated resources, allowing healthcare facilities to focus more on delivering high-quality care.

Ensured Compliance and Security: WPMS adheres to healthcare regulations such as HIPAA, safeguarding patient confidentiality and data security.

Generated Cost Savings: The optimization of resources and reduction in paper-based processes have led to significant cost savings for healthcare facilities. Promoted Continuous Improvement: Regular updates and enhancements ensure that WPMS remains at the forefront of healthcare innovation.

Gantt Chart

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Task Name** | **Week 1** | **Week 1** | **Week 1** | **Week 2** | **Week 2** | **Week 2** | **Week 2** | **Week 2** |
| **Planning** |  |  |  |  |  |  |  |  |
| **Requirement Analysis** |  |  |  |  |  |  |  |  |
| **Design** |  |  |  |  |  |  |  |  |
| **Coding** |  |  |  |  |  |  |  |  |
| **Reporting** |  |  |  |  |  |  |  |  |

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