**SYNOPSIS**

**Report on**

**“HEALTH RECORD MANAGEMENT SYSTEM”**

**By**

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**ABSTRACT**

The Health Record Management System (HRMS) is a comprehensive digital solution designed to streamline the storage, retrieval, and management of user 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 user care.

The HRMS project offers a user-friendly interface accessible to healthcare professionals, administrators, and patients. The Health Record 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 user 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 patients, 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.

Health Record Management System (HRMS) 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 administrators to efficiently manage medical records and communication.

The primary objective of the Health Record Management System is to improve the user 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.

**BACKGROUND/PROBLEM STATEMENT**

In today's healthcare landscape, the management of patient health records continues to be a significant challenge. The traditional paper-based record-keeping system is cumbersome, error-prone, and inefficient. Healthcare facilities are facing the following problems:

1. **Inefficient Record Storage:** Paper-based health records are difficult to organize, store, and retrieve. This inefficiency leads to delays in accessing critical patient information, potentially impacting patient care outcomes.
2. **Data Inaccuracy:** Handwritten records are susceptible to errors, including illegible handwriting and data entry mistakes. Such inaccuracies can result in misdiagnoses, incorrect treatments, and compromised patient safety.
3. **Limited Accessibility:** Paper records are typically stored in physical files or cabinets, making it challenging for healthcare providers to access patient information remotely. This limitation hinders timely decision-making and patient care coordination.
4. **Security Risks:** Traditional records are vulnerable to physical damage, theft, or unauthorized access. Ensuring the confidentiality and security of patient data is a constant concern.
5. **Administrative Overhead:** Maintaining paper records necessitates extensive administrative work, including manual filing, record retrieval, and appointment scheduling. This diverts valuable resources away from patient care.

**PROJECT OBJECTIVE**

1. **Digitization of Health Records:** The primary objective of the HRMS 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 HRMS 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. **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.
6. **Scalability and Flexibility:** Design the HRMS to be scalable and adaptable to accommodate the changing needs of healthcare facilities of various sizes and specialties.
7. **Cost Reduction:** Reduce costs associated with paper record storage, retrieval, and maintenance while improving operational efficiency and reducing the likelihood of errors.

**PROJECT OUTCOME**

The successful outcome of a Health Record Management System (HRMS) project can bring about numerous benefits and positive changes in the healthcare sector. Here are some of the key outcomes that can be expected:

1. **Efficient Record Management:** The transition from paper-based records to electronic health records (EHRs) leads to efficient and organized management of patient health data. Records are easily searchable, accessible, and secure.
2. **Improved Data Accuracy:** Electronic records reduce the risk of errors associated with manual data entry and illegible handwriting, enhancing the accuracy and reliability of patient information.
3. **Streamlined Administrative Processes:** Administrative tasks like appointment scheduling, prescription management, and billing become more efficient, reducing administrative overhead and allowing staff to focus on patient care.
4. **Remote Access:** Healthcare providers can access patient records remotely, which is particularly valuable in emergencies, telemedicine, and situations requiring cross-team collaboration.

In summary, the successful implementation of a Health Record Management System project can lead to a transformative shift in healthcare operations, resulting in improved patient care, streamlined processes, enhanced data security and compliance, and significant cost savings for healthcare facilities.

**SYSTEM DESCRIPTION**

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

* **Dashboard Page:** Display the summary.
* **Multiple Administrations:** More than one admin can access information Administrators manage systems settings, and overall system functionality.
* **User Management**
  + Add New Admin
  + List All Admins
  + Edit Admin Details
* **Physician Management-**

1. Add New Physician
   * You can add new Physician by using this module.
2. **List All Physician**
   * Easily accessible records of all physician.
3. **Edit/Update Physician Details**
   * You can edit physician details and update them

* **Patient Management-**
  + Add New Patient
  + List All Patients
  + Edit/Update Patient Details
  + Add New Patient's Prescription
  + Patient's History List
* **Reports:**

1.Generate reports

* + Generating Printable and Downloadable Reports
  + Patient Visits
  + Disease Records

2.Upload reports

* + Patient Reports: Summarize patient Information for clinical decision-making.
  + Reports Upload: Admin cam upload patient reports in Image and pdf formats
  + Report Generation: On demand- generated by authorized users

**Format:**

**Pdf:** commonly used for easy sharing and printing

**System Requirements**

1. **Hardware Requirement**
2. **Laptop or PC**

* Windows 7 or higher
* I3 processor system or higher
* 4 GB RAM or higher
* 100 GB ROM or higher

1. **Software Requirement**
2. **Laptop or PC**

* php
* MySql
* VS Code
* XAMP Server

**Reference**

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