**National Institute of Technology**

**Tiruchirappalli**



***Department of Computer Applications***

**HOSPITAL MANAGEMENT**

**SYSTEM**

**PROJECT WORK**

*Under the guidance of : Submitted By :*

**Dr. U.vignesh Sakshi Jain**

**205119089**

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15**



**CERTIFICATE**

This is to certify that Sakshi Jain, student of 2nd semester MCA (batch 2019-2022) of National Institute of Technology, Tiruchirappalli has successfully completed the project Hospital Management System under the guidance of Dr. U. Vignesh.

**(signature)**

**Dr. U.Vignesh**

**ACKNOWLEDGMENT**

I take this occasion to thank God, almighty for blessing us with his

grace and taking our endeavor to a successful culmination. I extend my

sincere and heartfelt thanks to our esteemed guide, Dr. U. Vignesh,

for providing me with the right guidance and advice at the crucial junctures

and for showing me the right way.

I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

**Sakshi Jain**

INDEX

|  |  |  |  |
| --- | --- | --- | --- |
| S\_NO | NAME OF THE CONTENT | PAGE | REMARKS |
| 1 | Overview | 5 |  |
| 2 | Database design | 6-7 |  |
| 3 | ER diagram | 7-8 |  |
| 4 | Database schema | 8-9 |  |
| 5 | User Interface | 9-10 |  |
| 6 | Doctor list | 9-10 |  |
| 7 | Patient list | 9-10 |  |
| 8 | Appointment | 11 |  |

**Overview**

Hospital are the essential part of our lives, providing best medical facilities to people suffering from various ailments, which may be due to change in climatic conditions, increased work-load, emotional trauma stress etc. It is necessary for the hospitals to keep track of its day-to-day activities & records of its patients, doctors, nurses, ward boys and other staff personals that keep the hospital running smoothly & successfully. But keeping track of all the activities and their records on paper is very cumbersome and error prone. It also is very inefficient and a time-consuming process Observing the continuous increase in population and number of people visiting the hospital. Recording and maintaining all these records is highly unreliable, inefficient and error-prone. It is also not economically & technically feasible to maintain these records on paper. Thus keeping the working of the manual system as the basis of our project. We have developed an automated version of the manual system, named as “Administration support system for medical institutions”. The main aim of our project is to provide a paper-less hospital up to 90%. It also aims at providing low-cost reliable automation of the existing systems. The system also provides excellent security of data at every level of user-system interaction and also provides robust & reliable storage and backup facilities..

**Database Design**

Database design is the process of producing a detailed data model of database. This data model contains all the need logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be used to create a database. A fully attributed data model contains detailed attributes for each entity. The term database design can be used to describe many different part of the design of an overall database system. Principally, and most correctly, it can be thought of as the logical design of the base data structure used to store the data. In the relational model these are the tables and views. In an object database the entities and relationships map directly to object classes and named relationships. However, the term database design could also be used to apply to the overall process of designing, not just the base data structure, but also the forms and queries used as part of the overall database application within the database management system.

**E-R Diagram of Hospital Management System**

An entity-relationship diagram (ERD) is an abstract and conceptual representation of data. Entityrelationship modeling is a database modeling method, used to produce a type of conceptual schema or semantic data model of a system, often a relational database, and its requirements in a top-down .

**Patient**

**information**

**Admit**

**Hospital**

Room

**Patients**

**Record**

**Doctor**

**Hospital**

**On Line Appointment**

**Patient**

Hospital

**Database schema of Hospital Management System**

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data.

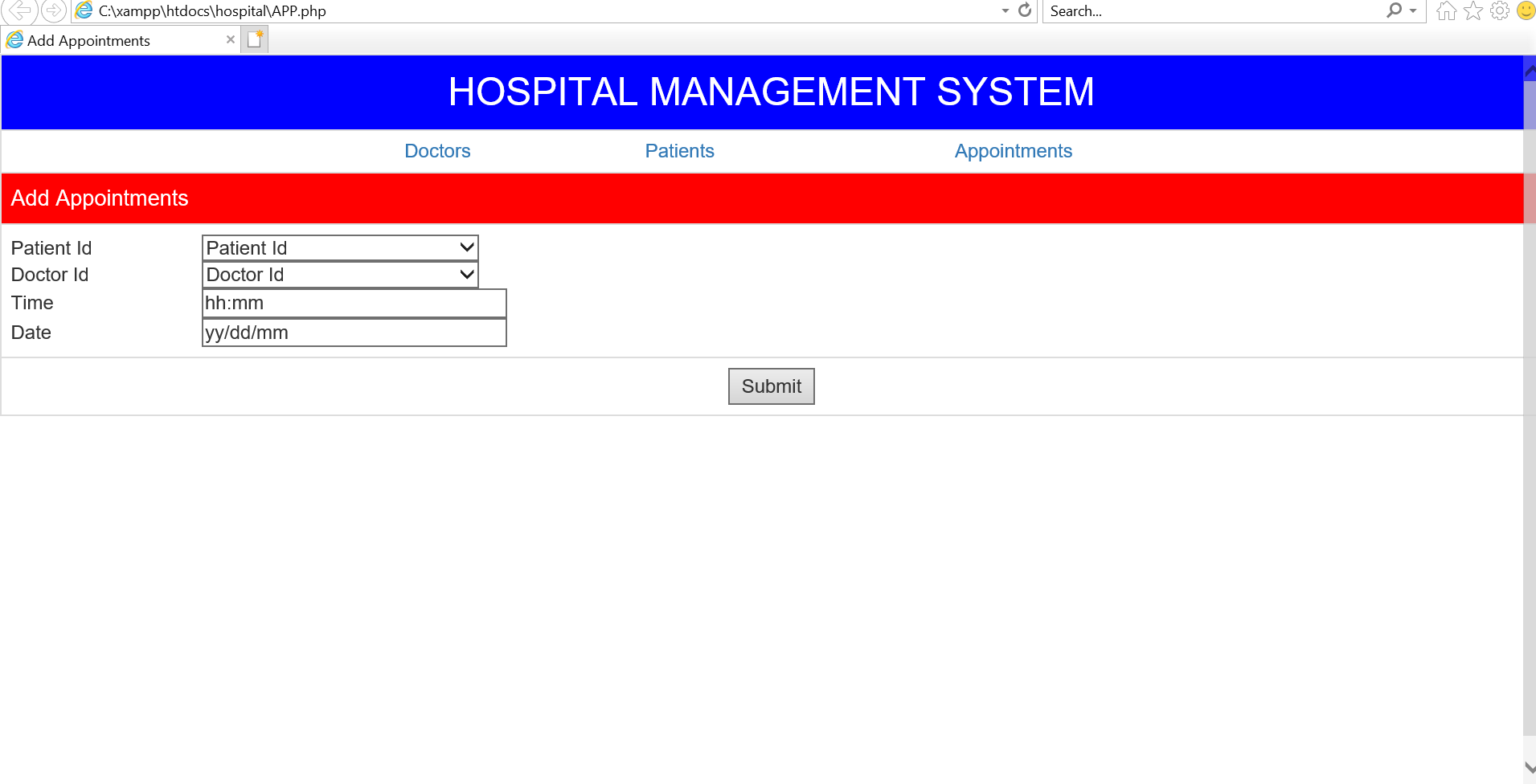
A database schema can be divided broadly into two categories − Physical Database Schema: This schema pertains to the actual storage of data and its form of storage like files, indices, etc. It defines how the data will be stored in a secondary storage. Logical Database Schema: This schema defines all the logical constraints that need to be applied on the data stored. It defines tables, views, and integrity constraints.

List of table:

1. Doctors.
2. Patient.
3. Appointment

**User Interface**

**Home Page**

****

