

DEPARTMENT OF COMPUTER SCIENCE  
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SYNOPSIS

“HealthHub Records”

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<b>Outline</b>	
1.	Introduction
2.	Existing System
3.	Proposed System
4.	Objective and Scope of Project
5.	Requirement Analysis
6.	Software Model Used
7.	Context Diagram
8..	Conclusion

## **Introduction:**

A management system dedicated and designed for the hospitals/clinics that aim to ease out and systemize the basic yet redundant activity of recording and maintaining the patient's reports for future use. The purpose of developing the software is to automate the manual system of maintain the patient health report by the help of computerized equipment and a software, so that their valuable data/information can be stored for a longer period of time with easy accessing and manipulation of same .The software intends to ease out and help with maintaining the medical reports of the patient and hassle free retrieval when needed. The main objective of this system is to manage the details of the patient. It manages all the information about the patient like medical reports, allergies, blood group and if the patient is /was under some medicines that could cause any reaction in patient's body to new treatment. This will not only ease out the record keeping process but will also be very helpful in case of emergencies.

## **Existing System:**

The present or the traditional way has many disadvantages like:

- It is difficult to maintain all the reports.
- It is difficult carry all the reports.
- It is not possible to have reports all the time.

- In case of any accident or other emergencies where the patient is either alone or not in a condition to talk, the doctor has zero knowledge about the patient's allergies and ongoing medications.

### **Proposed System:**

- Implement a robust database system for secure storage and retrieval of medical records.
- Develop role-based access control to ensure data privacy and compliance with healthcare regulations.
- Enable Doctors to access patient's records securely.
- Enable patients to maintain & access their medical records securely which includes prescriptions, tests so on.

### **Objective & Scope of the Project:**

- The main objective of this system is to manage the details of the patient.
- It manages all the information about the patient like medical reports, allergies, blood group.
- Reducing patients' waiting time and increasing the number of patients served a system that is fully automated, user-friendly, time effective and efficient.
- Tracking and managing patients request. Specific Problem: New and regular patient's records was recorded manually

## **Requirement Analysis:**

.NET Framework for backend development.

ASP.NET MVC for creating the web application's structure.

C# for programming logic.

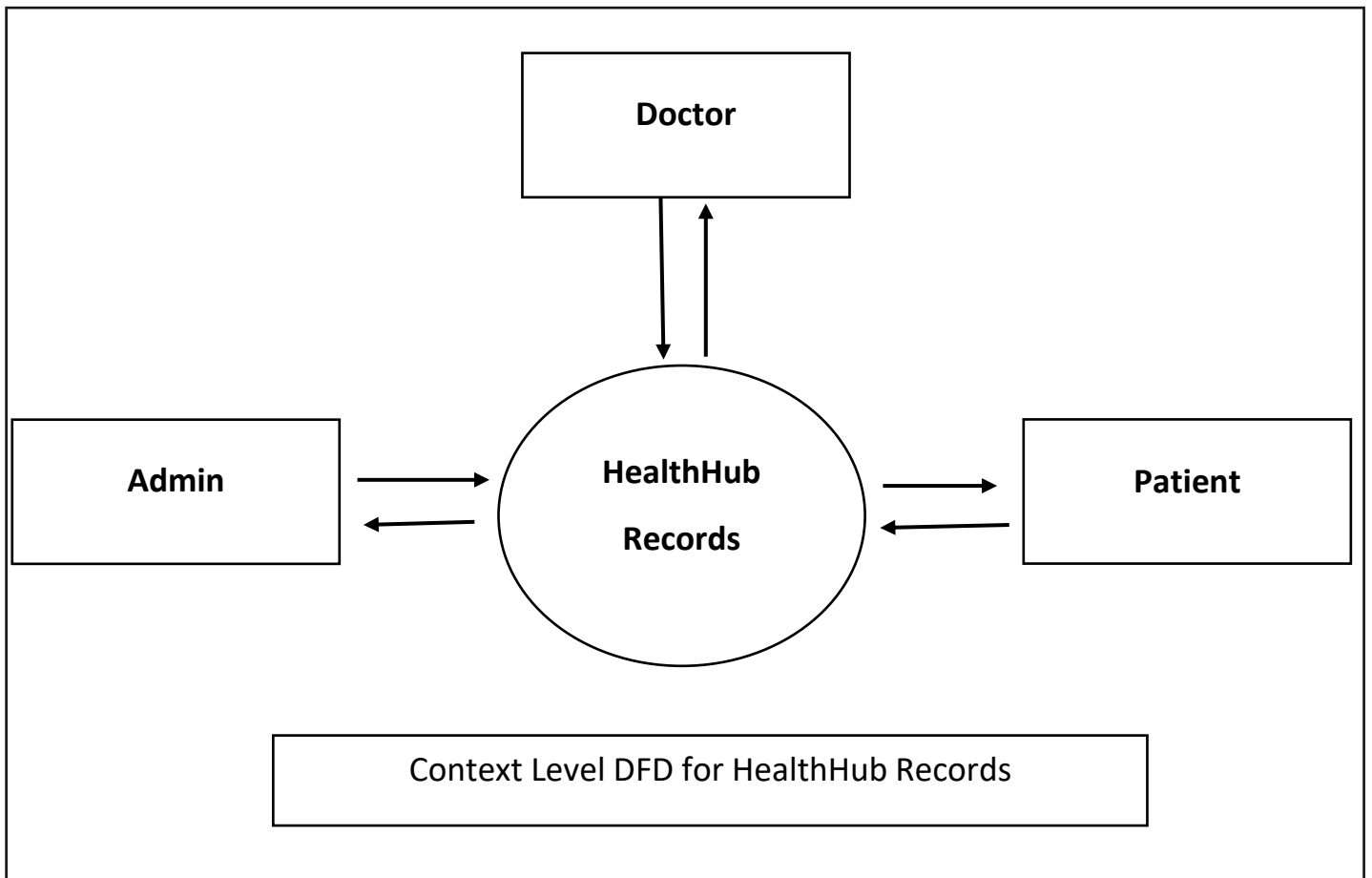
SQL Server for database management.

## **Software Model Used:**

### **ITERATIVE INCREMENTAL MODEL**

The project is based on Object Oriented approach using Iterative Incremental Model. Iterative and incremental software development is a method of software development that is model around a gradual increase in feature additions and a cyclical release and upgrade pattern. Iterative and incremental software development begins with planning and continues through iterative development cycles involving continuous user feedback and the incremental addition of features concluding with the deployment of completed software at the end of each cycle. It is one of the methodologies of agile software development, rational unified process and extreme programming. Iterative and incremental development is a discipline for developing systems based on producing deliverables. In incremental development, different parts of the system are developed at various times or rates and are integrated based on their completion.

## Context Diagram:



## Conclusion:

The development of a "HealthHub Records using .NET" for the MCA synopsis presents a promising solution to automate the existing system. The project's main objective is to create a user-friendly and comprehensive platform.

By leveraging the .NET framework, ASP.NET MVC, C#, and modern web technologies, the project aligns with the latest industry standards and practices. This not only ensures a robust and secure system but also equips the MCA students with valuable hands-on experience in real-world application development.