

# Analysis Phase

for

<HealthHub Records>



DEPARTMENT OF COMPUTER SCIENCE  
ISLAMIA COLLEGE OF SCIENCE & COMMERCE  
Hawal Srinagar (J&K)

Submitted by:-

NAME: **BASEERAT MEHRAJ**

Enrollment Number: **21045115002**

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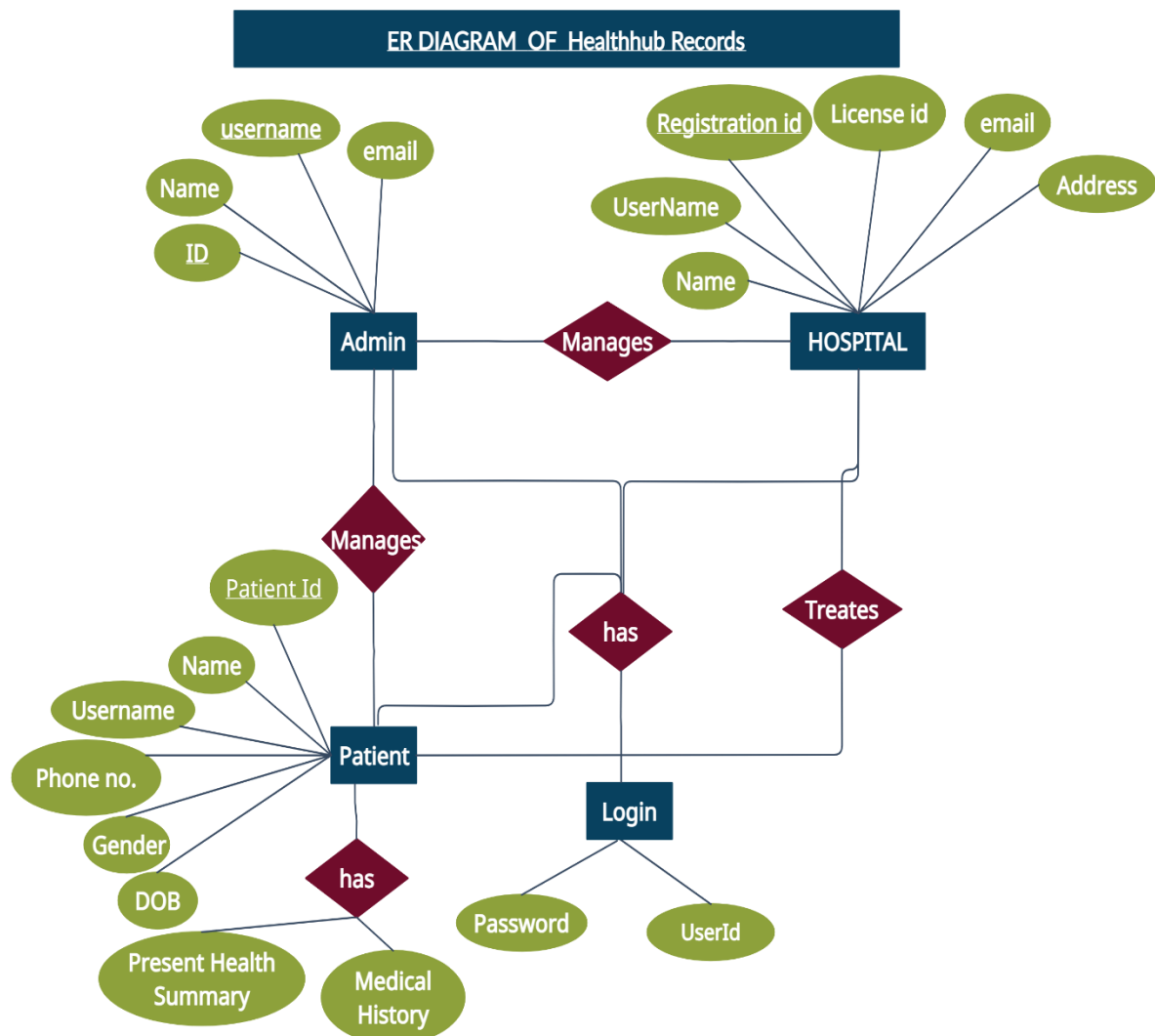
## Project Description:

A management system dedicated and designed for the hospitals/patients 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.

## Feasibility Study:

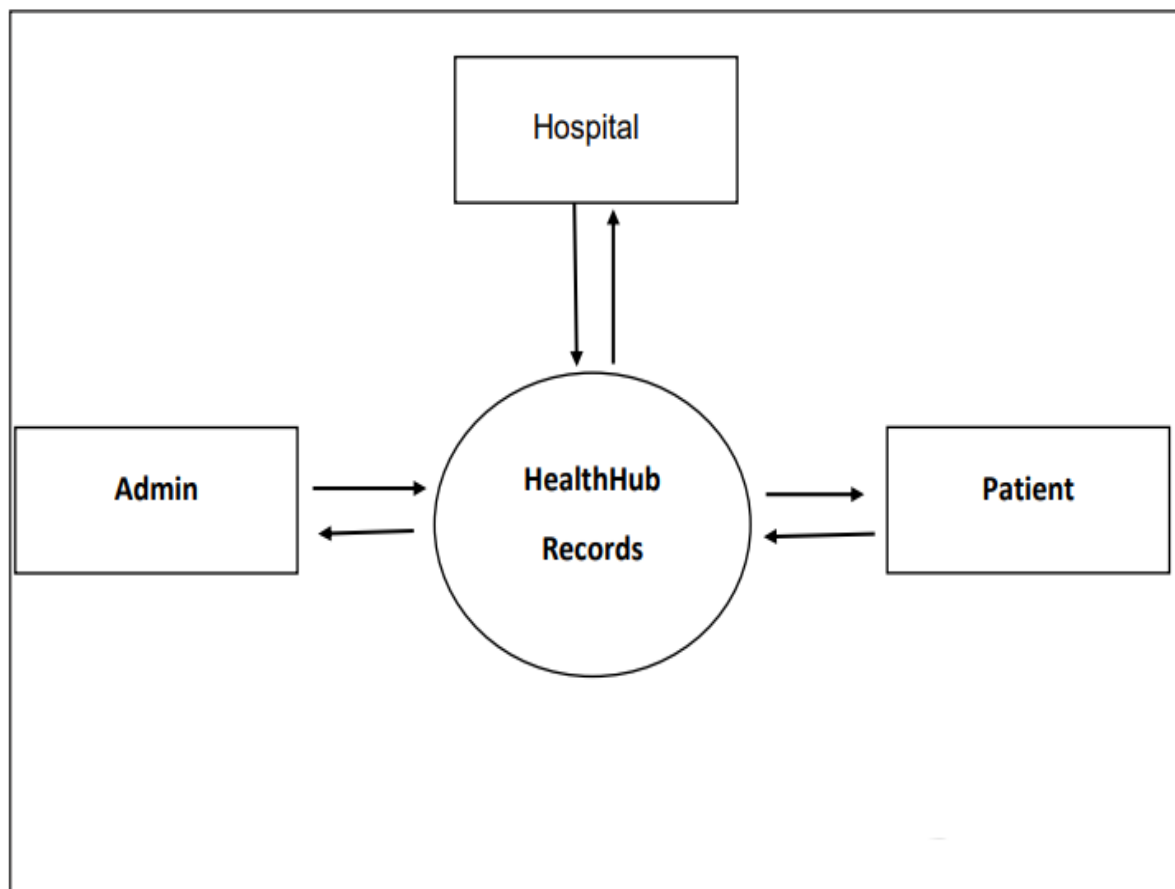
| Type                    | Requirements   | Feasible | Not Feasible |
|-------------------------|--|----------|--------------|
| Technical Feasibility   | <b>HARDWARE TECHNOLOGIES:</b><br>Processor: Intel quad core or above.<br>Processor speed: 2.0GH or above.<br>RAM: 4 GB RAM or above<br>Hard disk: 10 GB hard disk or above<br><b>SOFTWARE TECHNOLOGIES:</b><br>Visual Studio 2022<br>Microsoft SQL Server Management Studio<br>Languages: C#,ASP .NET CORE MVC ,Bootstrap<br>Database: SQL SERVER 2022 | Feasible |              |
| Economic Feasibility    | No Money needed to spend   | Feasible |              |
| Operational Feasibility | Easy User Interface  | Feasible |              |
| Legal Feasibility       | Legally verified   | Feasible |              |
| Schedule Feasibility    | Completion time 2 Months   | Feasible |              |

### ER Diagram of HealthHub Records:

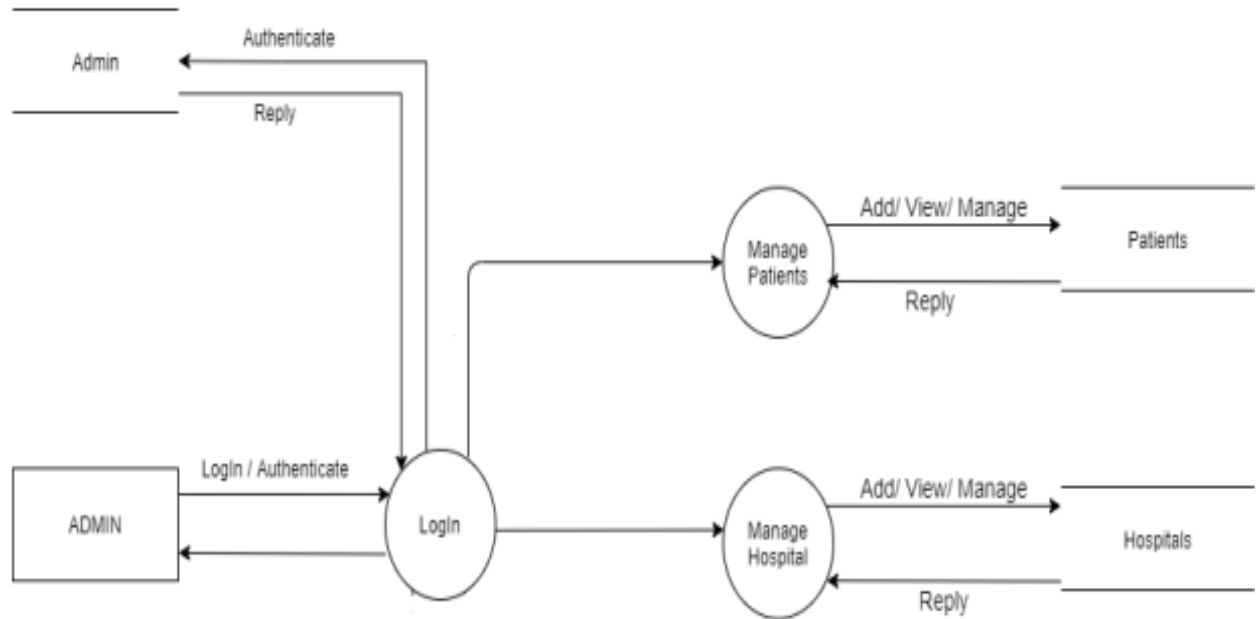


## **DFD:**

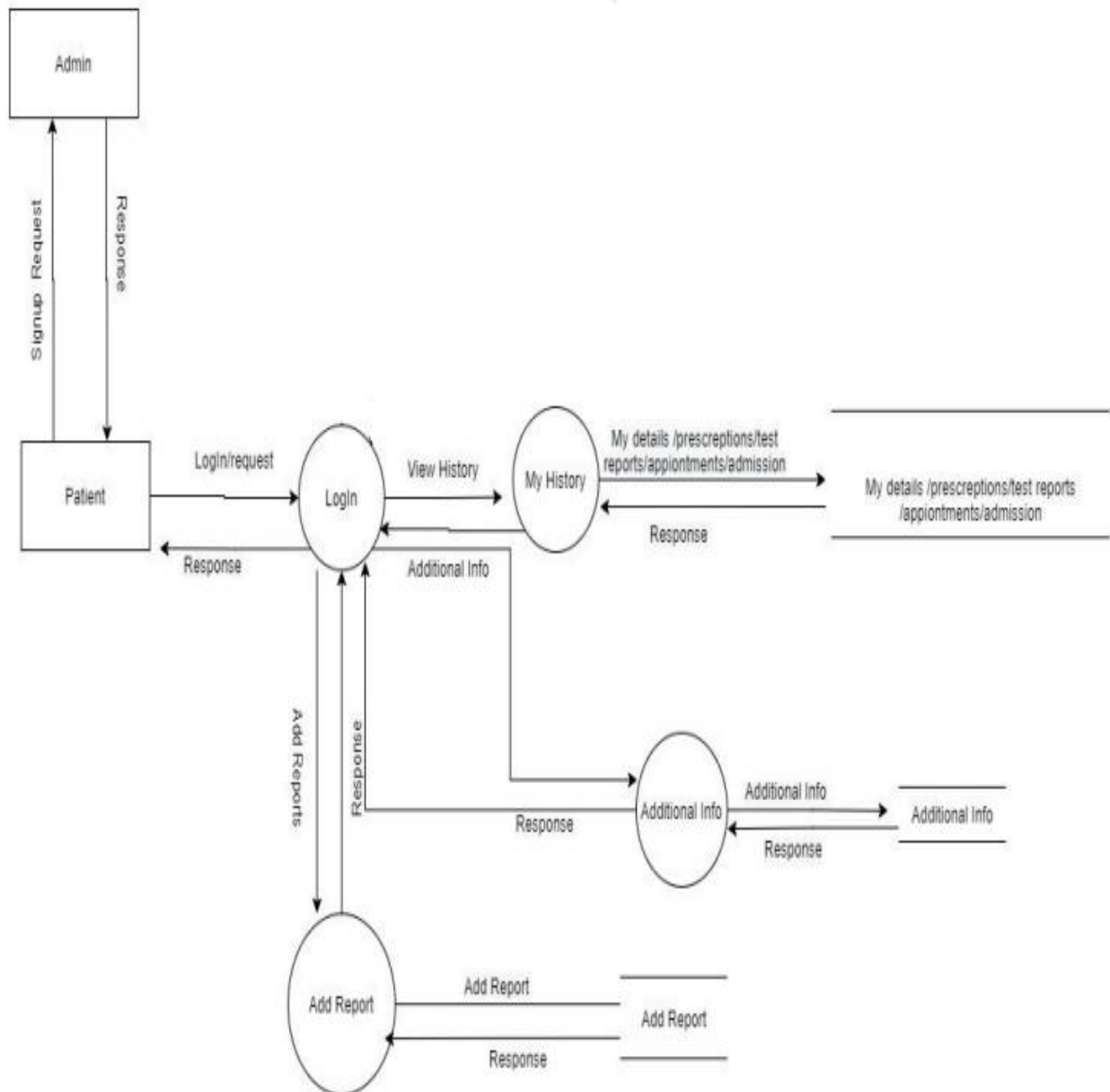
DFD Level 0: A DFD Level 0 is also called a Context Diagram. It's a basic overview of the whole system or process being analysed or modelled. It's designed to be an at a glance view, showing the system as a single high-level process, with its relationship to external entities. The level 0 DFD of our Project "Health Hub" is shown below



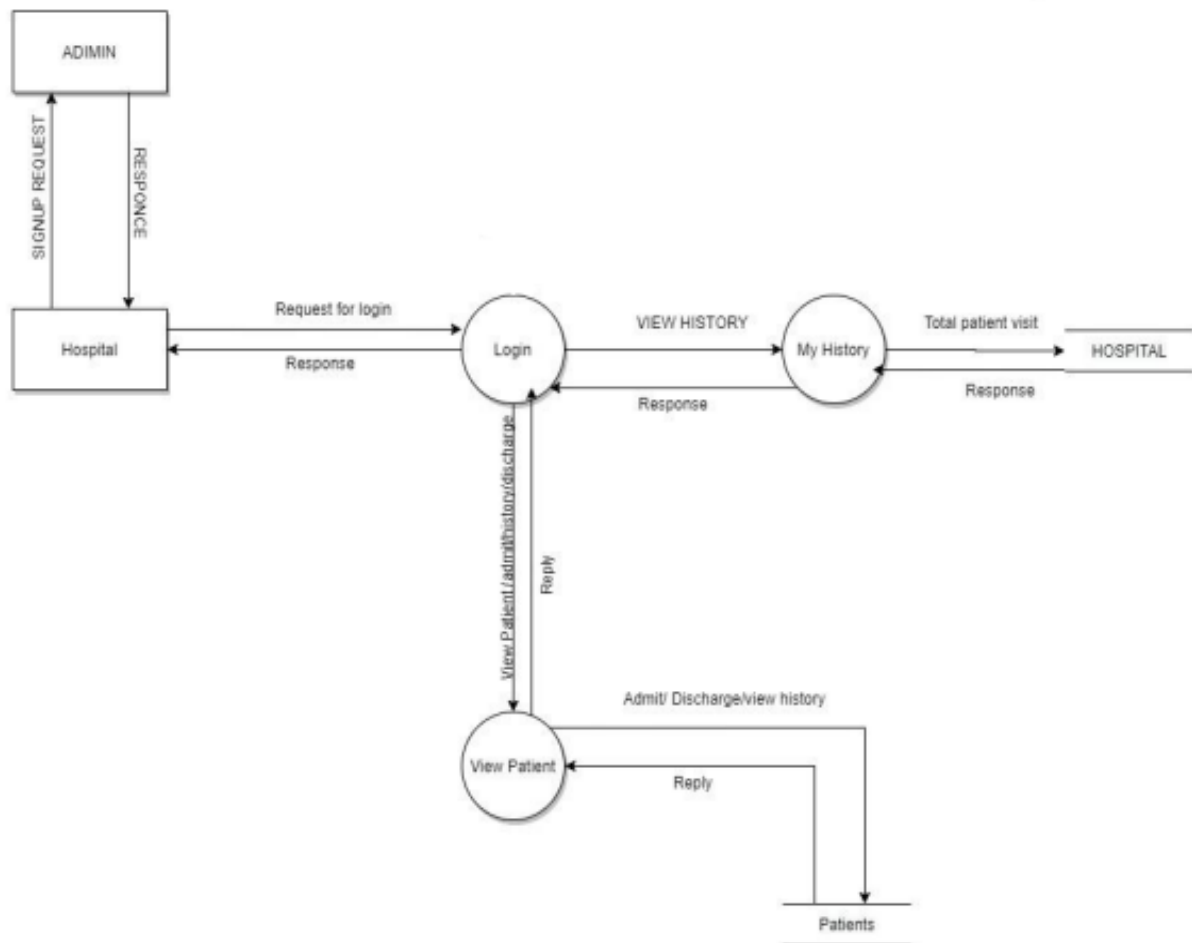
## LEVEL 1 DFD- ADMIN MODULE:



## LEVEL 1 DFD- PATIENT MODULE:



## LEVEL 1 DFD- HOSPITAL MODULE:





**Gantt Chart:**

| Task Name             | 1st Quarter |          |          | 2nd Quarter |          | 3rd Quarter |
|-----------------------|-------------|----------|----------|-------------|----------|-------------|
|                       | Aug 2023    | Sep 2023 | Sep 2023 | Oct 2023    | Oct 2023 | Nov 2023    |
| Requirements Analysis |             |          |          |             |          |             |
| Design                |             |          |          |             |          |             |
| Development           |             |          |          |             |          |             |
| Testing               |             |          |          |             |          |             |
| Maintenance           |             |          |          |             |          |             |

### **Data Dictionary: For Login Table**

| <b><u>Attribute</u></b> | <b><u>Required</u></b> | <b><u>Format</u></b> | <b><u>Description</u></b>                     |
|-------------------------|------------------------|----------------------|---|
| Id                      | Yes                    | Int(Max)             | Primary Key                                   |
| User id                 | Yes                    | Int(Max)             | Foreign Key with Patient Table/Hospital Table |
| Username                | Yes                    | Varchar(Max)         | Username to access login                      |
| Password                | Yes                    | Varchar(Max)         | Password to login                             |

### **Data Dictionary: For Hospital Registration Table**

| <b><u>Attribute</u></b> | <b><u>Required</u></b> | <b><u>Format</u></b> | <b><u>Description</u></b>     |
|-------------------------|------------------------|----------------------|-------------------------------|
| Registration Id         | Yes                    | Int(Max)             | Primary Key                   |
| User id                 | Yes                    | Int(Max)             | Foreign Key with Login Table  |
| Name                    | Yes                    | Varchar(Max)         | Name of hospital              |
| License Id              | Yes                    | Int(Max)             | License Id to verify hospital |
| Address                 | Yes                    | Varchar(Max)         | Address of hospital           |
| Email                   | Yes                    | Varchar(Max)         | Email of hospital             |

### **Data Dictionary: For Patient Registration Table**

| <b><u>Attribute</u></b> | <b><u>Required</u></b> | <b><u>Format</u></b> | <b><u>Description</u></b>    |
|-------------------------|------------------------|----------------------|------------------------------|
| Id                      | Yes                    | Int(Max)             | Primary Key                  |
| User id                 | Yes                    | Int(Max)             | Foreign Key with Login Table |
| Name                    | Yes                    | Varchar(Max)         | Name of Patient              |
| Phone no.               | Yes                    | Int(Max)             | Phone no. of Patient         |
| Gender                  | Yes                    | Char(Max)            | Gender of Patient            |
| Address                 | Yes                    | Varchar(Max)         | Address of Patient           |
| DOB                     | Yes                    | date                 | Email of Patient             |

### **Data Dictionary: For Patient Medical Table**

| <b><u>Attribute</u></b> | <b><u>Required</u></b> | <b><u>Format</u></b> | <b><u>Description</u></b>      |
|-------------------------|------------------------|----------------------|--------------------------------|
| Id                      | Yes                    | Int(Max)             | Primary Key                    |
| User id                 | Yes                    | Int(Max)             | Foreign Key with Patient Table |
| Tests                   | No                     | Varchar(Max)         | Test reports of Patient        |
| Prescriptions           | No                     | Varchar(Max)         | Patients prescriptions         |
| Allergies               | No                     | Char(50)             | Patients allergies             |
| Blood Group             | No                     | char(50)             | Patients blood group           |