

# **Software Requirements Specification**

**for**

## **Hospital Management System**

**Version 1.0 approved**

**Prepared by**

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**RK University**

**Date:16/04/2025**

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## ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and We are extremely fortunate to have got this all along the completion of my project work.

Whatever we have done is only due to such guidance and assistance and we would not forget to thank them.

We respect and thank **RK University** for giving us an opportunity to do the project work in 6BCA and providing us all support and guidance which make us complete the project on time.

We are extremely grateful to him for providing such a nice support and guidance though he had busy schedule managing the company affairs.

We also thank our internal project guide, **Mr.Parvez Belim, RK University Rajkot**, for his guidance and suggestions during this project work.

We are thankful to and fortunate enough to get constant encouragement, support and guidance from all Teaching staffs of Department of Bachelor of Computer Application which help Edu's in successfully completing our project work.

Also, we would like to extend our sincere regards to all the non-teaching staff of department for their timely support.

## ABSTRACT

Hospital Management System is an organized computerized system designed and programmed to deal with day-to-day operations and management of the hospital activities.

The purpose of the project "Hospital Management System" is to computerize the front office management of hospital to develop software which is user friendly simple, fast and cost-effective.

The main function of the system is approving the appointment placed by the patients and store their details, doctor details, and retrieve these details as and when required, also to manipulate these details meaningfully.

Hospital Management System follows a authentication based system in which only the registered user can access the system.

The system is built so to protect the user data and information.

## **1.INTRODUCTION:**

- ❖ The project Hospital Management system includes appointment booking, registration of patients, doctor, and storing their details into the system.
- ❖ The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically.
- ❖ The project can be entered using a username and password.
- ❖ Where User can search various services available, Book appointment, view doctor details and Doctor can view their appointments and patient detail using their id.
- ❖ It is accessible either by an admin or staff.
- ❖ Only they can add data into the database.
- ❖ The data can be retrieved easily.
- ❖ The interface is very user-friendly.
- ❖ Hospital Management System is Powerful, Flexible and easy to use and is designed and developed to deliver real conceivable benefits to hospitals, clinics etc.

### **1.1ASP.NET**

- ❖ It is a web framework designed and developed by Microsoft.
- ❖ It is used to develop websites, web applications and web services.
- ❖ It provides fantastic integration of HTML, CSS and JavaScript.
- ❖ It was first released in January 2002.
- ❖ It is built on the Common Language Runtime (CLR) and allows programmers to write code using any supported .NET language.
- ❖ ASP.NET is a part of Microsoft .NET Framework.

## **2.PROJECT MANAGEMENT**

### **2.1 PROJECT PLANNING**

Project Planning is one of the major tasks that are performed during the development of the project. Using project planning, the task of finding the size of the project is done and with that total amount of time and cost required for the project, development is calculated. The planning of this project was done using a special approach. After getting the project definition, upper-level analysis was performed first. That analysis was confined to the whole project level. That analysis gave the idea about the size and the structure of the project and using that analysis information, the planning of the project was done.

## PROJECT SCHEDULING

Project Work Plan contains all the activities that are performed in the future in order to complete the project of the system and the respective times that are required to complete that project.

- ➔ Project Work Plan of the system will proceed as follow:
- ❖ First, The Project concept will be analyzed before implementation.
- ❖ Second, The Requirements will be gathered related to the existing system which is working like this Project, and all their functions and information will be gathered to make a unique and one-level ahead project.
- ❖ Third, The Design Will start implementing parallel implements in order to provide the best User Interface.
- ❖ After the deigning implementation, the project will start.
- ❖ The Above Modules like Designing, Coding, Analysis, and Requirement Gathering can be done in parallel.

## 3. SYSTEM REQUIREMENTS STUDY

- ➔ Visual Studio 2019 is a complete set of development tools for building
  - ASP Web applications
  - XML Web services
  - Desktop applications
  - Mobile applications
- ❖ Visual Basic .NET, Visual C++ .NET, and Visual C# .NET all use the same integrated development environment (IDE), which allows them to share tools and facilitates in the creation of mixed-language solutions.
- ❖ Visual C#, pronounced C sharp, is a new object-oriented programming language that is an evolution of C and C++, providing a simple and type-safe language for developing applications.
- ❖ The .NET Framework is a new computing platform that simplifies application development in the highly distributed environment of the Internet. The .NET Framework is designed to fulfil the following objectives:
  - ❖ To provide a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely.
  - ❖ To provide a code-execution environment that minimizes software deployment and versioning conflicts.

## 4. SYSTEM ANALYSIS

### 4.1 FEASIBILITY STUDY:

The overall scope of the feasibility study was to provide sufficient information to allow a decision to be made as to whether the hospital management system project should proceed and so, its relative priority in the context of the other existing hospital management system.

- ➔ The feasibility study of this project had undergone through various steps which as describe as under:
- ❖ Identify the origin of the information at different level.
- ❖ Identify the expectation of user from computerized system.
- ❖ Analyze the drawback of existing system.

#### 4.1.1 ER-DIAGRAM

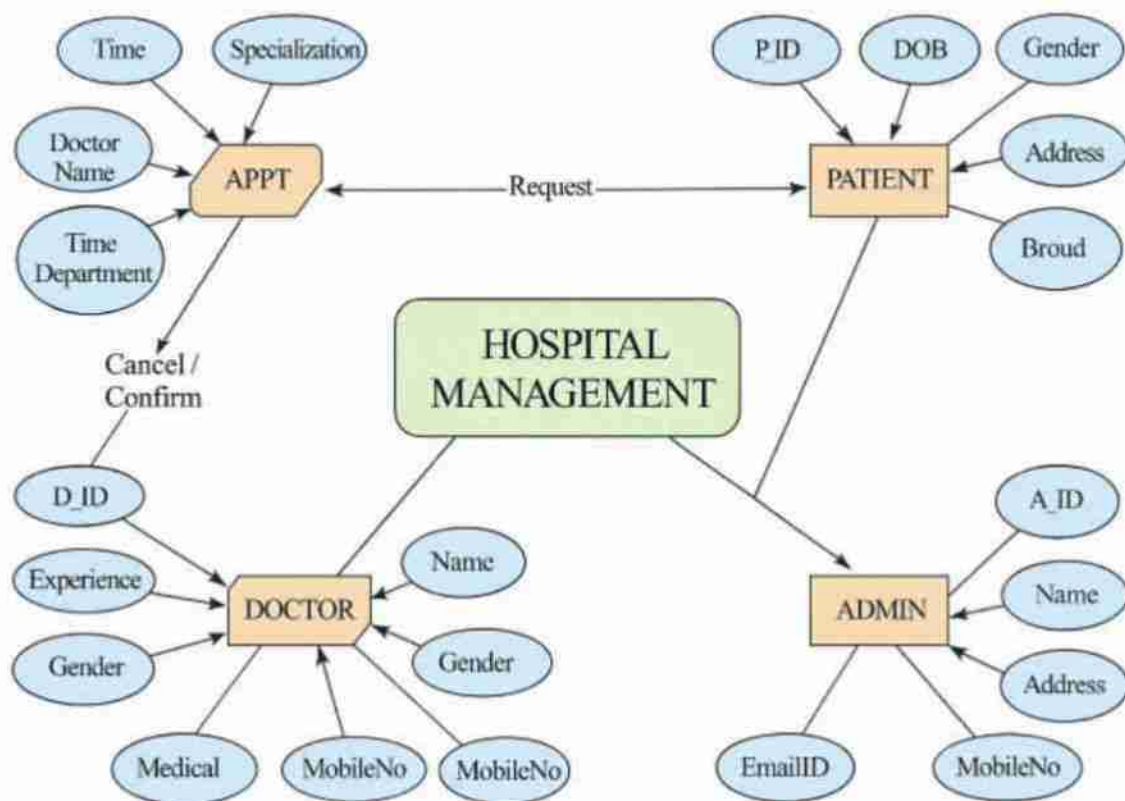


Fig: 4.1.1 ER Diagram

#### 4.1.2 USE CASE DIAGRAM

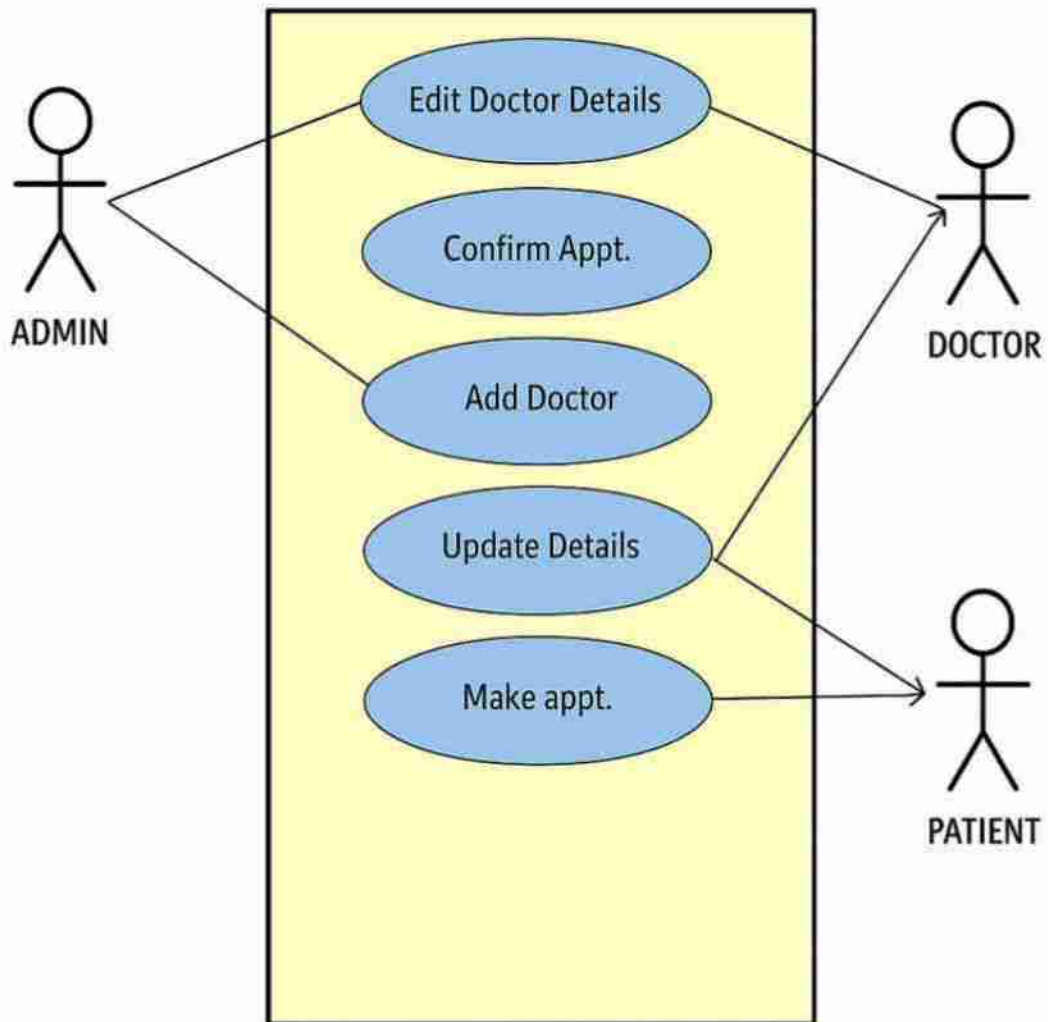


Fig: 4.1.2 Use Case Diagram

## 5.DATABASE TABLE:

### 1.AddDepartment

```
CREATE TABLE [dbo].[AddDepartment] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [DepartmentName] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

### 2.BookAppointment

```
CREATE TABLE [dbo].[BookAppointment] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Doc_Dept_Id] INT NOT NULL,  
    [Doctor_Name_Id] INT NOT NULL,  
    [Name] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Date] NVARCHAR (MAX) NOT NULL,  
    [Time] NVARCHAR (MAX) NOT NULL,  
    [Fever] NVARCHAR (MAX) NOT NULL,  
    [Cough] NVARCHAR (MAX) NOT NULL,  
    [Headache] NVARCHAR (MAX) NOT NULL,  
    [Fatigue] NVARCHAR (MAX) NOT NULL,  
    [Other] NVARCHAR (MAX) NOT NULL,  
    [BloodGroup] NVARCHAR (MAX) NOT NULL,  
    [PhoneNo] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

### 3.Contact

```
CREATE TABLE [dbo].[Contact] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Name] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Subject] NVARCHAR (MAX) NOT NULL,  
    [Message] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```



## 4.Doctors

```
CREATE TABLE [dbo].[Doctors] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Doc_Dept_Id] INT NOT NULL,  
    [Name] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Degree] NVARCHAR (MAX) NOT NULL,  
    [Speciality] NVARCHAR (MAX) NOT NULL,  
    [Gender] NVARCHAR (MAX) NOT NULL,  
    [Dob] NVARCHAR (MAX) NOT NULL,  
    [Phone] NVARCHAR (MAX) NOT NULL,  
    [Photo] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

## 5.Patients

```
CREATE TABLE [dbo].[Patients] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Name] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Dob] NVARCHAR (MAX) NOT NULL,  
    [BloodGroup] NVARCHAR (MAX) NOT NULL,  
    [PhoneNo] NVARCHAR (MAX) NOT NULL,  
    [Gender] NVARCHAR (MAX) NOT NULL,  
    [Mstatus] NVARCHAR (MAX) NOT NULL,  
    [Address] NVARCHAR (MAX) NOT NULL,  
    [InsCompany] NVARCHAR (MAX) NOT NULL,  
    [InsId] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

## 6.RegistrationAdmin

```
CREATE TABLE [dbo].[RegistrationAdmin] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Username] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Password] NVARCHAR (MAX) NOT NULL,  
    [DepartmentRole] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

## 7.RegistrationTable

```
CREATE TABLE [dbo].[RegistrationTable] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Username] NVARCHAR (MAX) NOT NULL,  
    [Email] NVARCHAR (MAX) NOT NULL,  
    [Password] NVARCHAR (MAX) NOT NULL,  
    [DeptRole] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

## 8.Reviews

```
CREATE TABLE [dbo].[Reviews] (  
    [Id] INT IDENTITY (1, 1) NOT NULL,  
    [Doc_Dept_Id] INT NOT NULL,  
    [Doctor_Name_Id] INT NOT NULL,  
    [PatientName] NVARCHAR (MAX) NOT NULL,  
    [EmailAddress] NVARCHAR (MAX) NOT NULL,  
    [PhoneNo] NVARCHAR (MAX) NOT NULL,  
    [DateOfVisit] NVARCHAR (MAX) NOT NULL,  
    [TimeOfAppointment] NVARCHAR (MAX) NOT NULL,  
    [Speciality] NVARCHAR (MAX) NOT NULL,  
    [WaitingTime] NVARCHAR (MAX) NOT NULL,  
    [DoctorFriendliness] NVARCHAR (MAX) NOT NULL,  
    [HospitalCleanliness] NVARCHAR (MAX) NOT NULL,  
    [OverallExperience] NVARCHAR (MAX) NOT NULL,  
    [Suggestion] NVARCHAR (MAX) NOT NULL,  
    [AdditionalComments] NVARCHAR (MAX) NOT NULL,  
    [AcceptTerm] NVARCHAR (MAX) NOT NULL,  
    PRIMARY KEY CLUSTERED ([Id] ASC)  
);
```

## 6.1 FLOW CHART

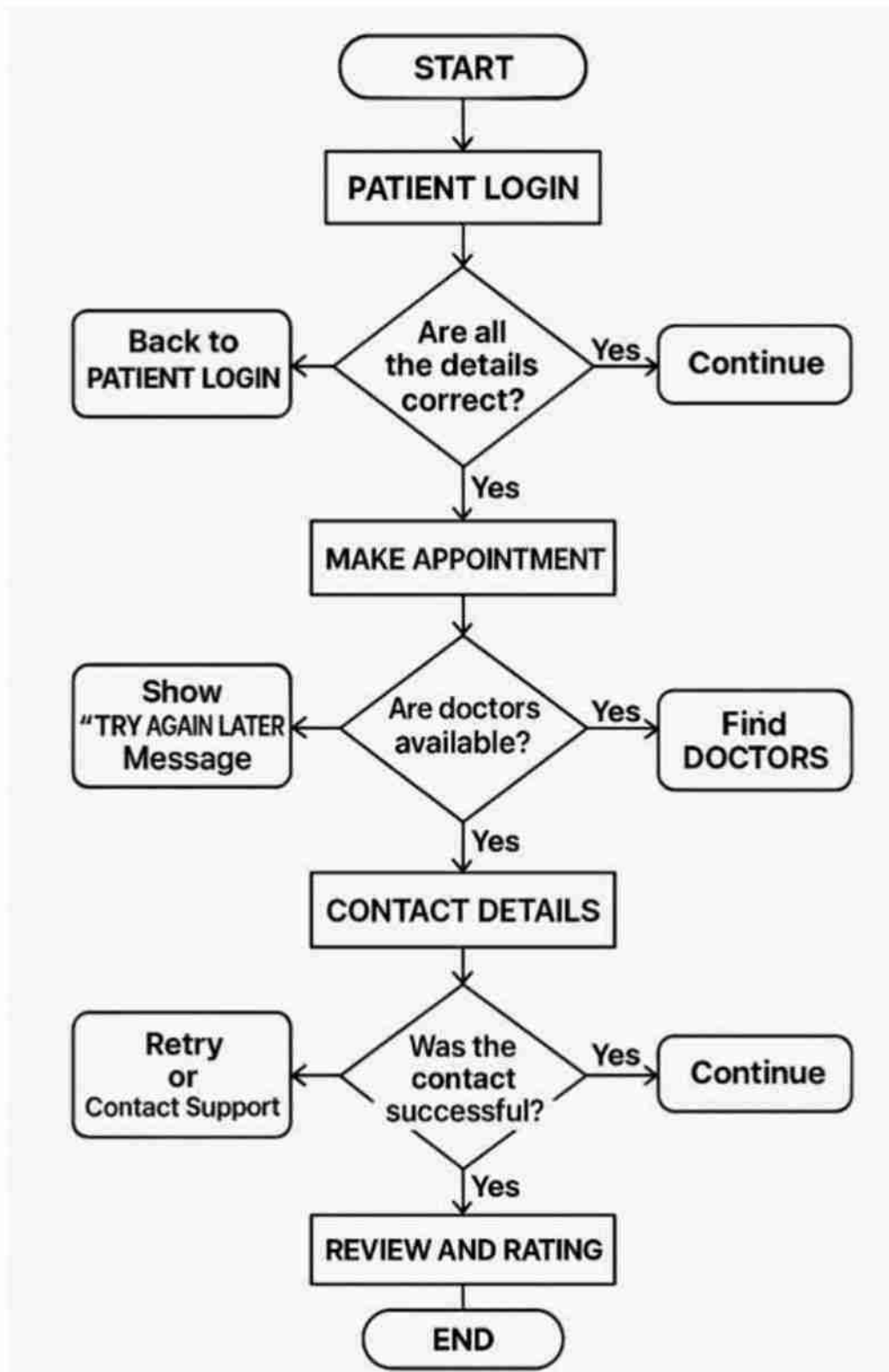
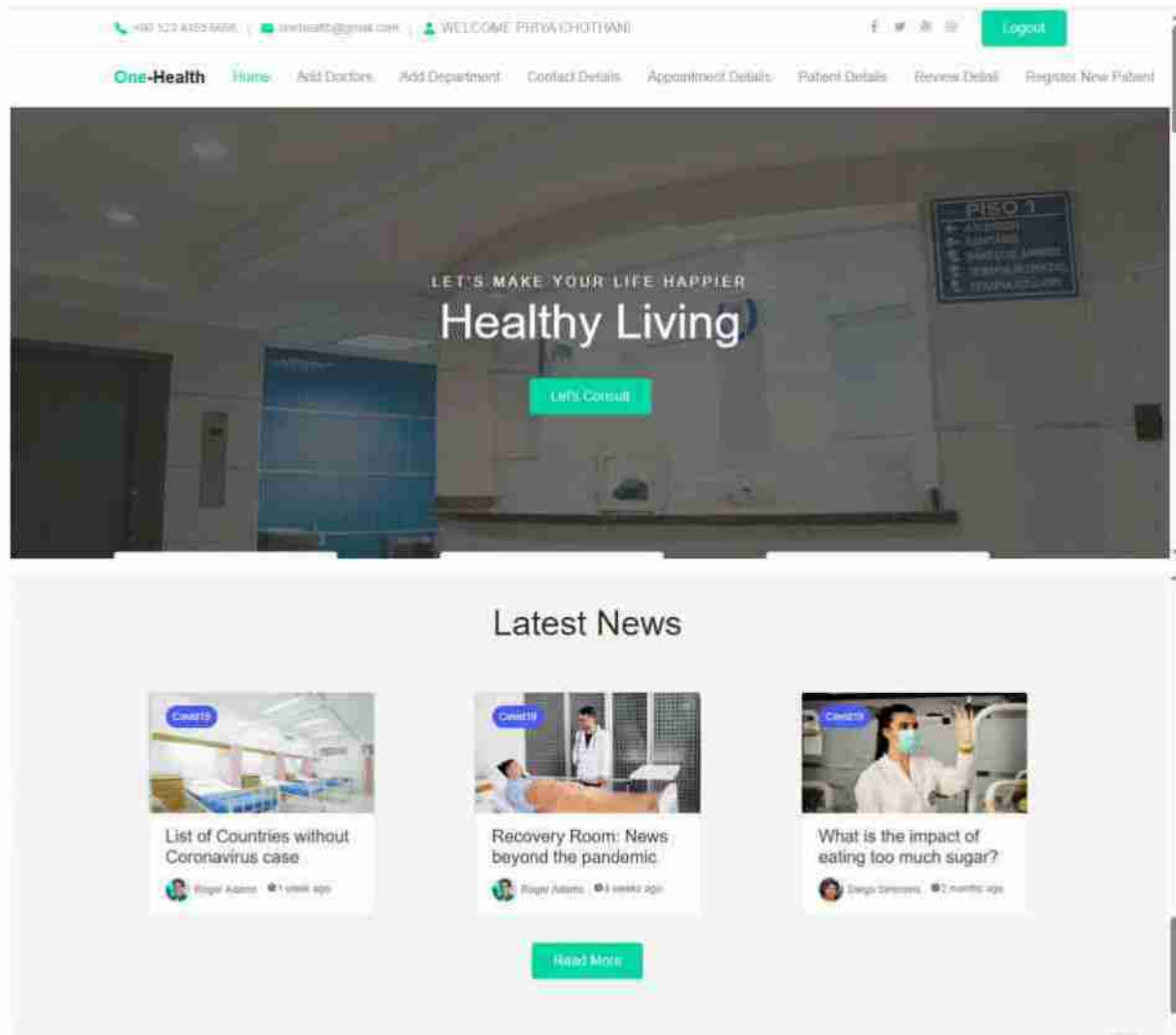




Fig: 6.1 Flow Chart


## 7.ADMIN PANEL :-

### 1) Home Page





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One-Health Pharmacy

## Welcome to Your Health Center

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Accusantium apostam eirnam ipsa elus, inventore nislno labore eaque porro consequatur ex aspernatus. Explicabo, exceptum accusantium Placida voluptates ossa ut opto facilis!

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Dr. Stein Albert

Cardiology


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Dr. Alexa Melvin

Dental


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Dr. Rebecca Steffany

General Health


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Dr. Jigna Ganatra

Orthopedic

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## Doctor Detail



**Name:** Dr. Alexs Melvin

**Gender:** Male

**Specialty:** Dental

**Mobile No.:** +91-9957654327

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02038  
701.573-7582  
[healthcare@temporary.net](mailto:healthcare@temporary.net)

### Social Media



## 2) Admin/AddDoctor

+91 120 44551666 | [onehealth@gnix.com](mailto:onehealth@gnix.com) | WELCOME PRIYA CHAKRABARTI

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## Doctors

## Add Doctor

Full name



1

1411	Dr. Homera Rajnikant	homera978@gmail.com	MS	Dermatologist	Female	2022-07-27	+91-9987674328	 <a href="#">Edit</a> <a href="#">Delete</a>
189	Dr. Suman Dhar	sumandhar789@gmail.com	MD	Pulmonologist	Female	2022-07-05	+91-9987324327	 <a href="#">Edit</a> <a href="#">Delete</a>

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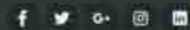
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#### Contact

351 Willow Street Franklin, MA  
02038  
701-573-7582  
[healthcare@transporting.net](mailto:healthcare@transporting.net)

#### Social Media



## Admin/AddDoctor/Crystal Report

### DOCTOR REPORT

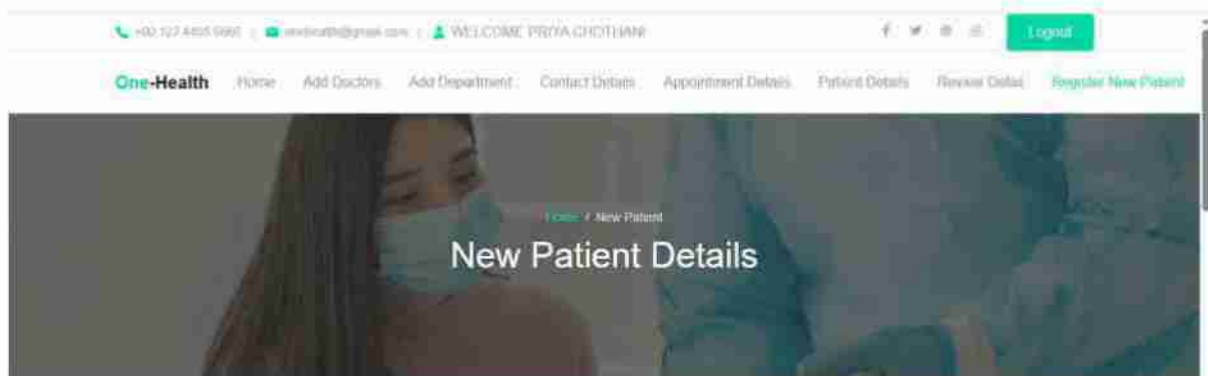
15-04-2025

3:46:04 pm

Id	D_Dep t_Id	Name	Email	Degree	Speciality	Gender
1	3	Dr. Stein Albert	steinalbert56@gmail.com	MS	Cardiology	Female
2	2	Dr. Alexa Melvin	alexamelvin78@yahoo.com	MS	Dental	Male



### 3) Admin/New Patient Details



#### New Regisration Patient Details

#### New Regisration Patient Details

Enter Address

Insurance Information

Insurance Company

Insurance ID

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Contact  
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02038

Up arrow icon

## 8.SCREEN SHORTS

### Login

Login Here

Username

Username

Password

Password

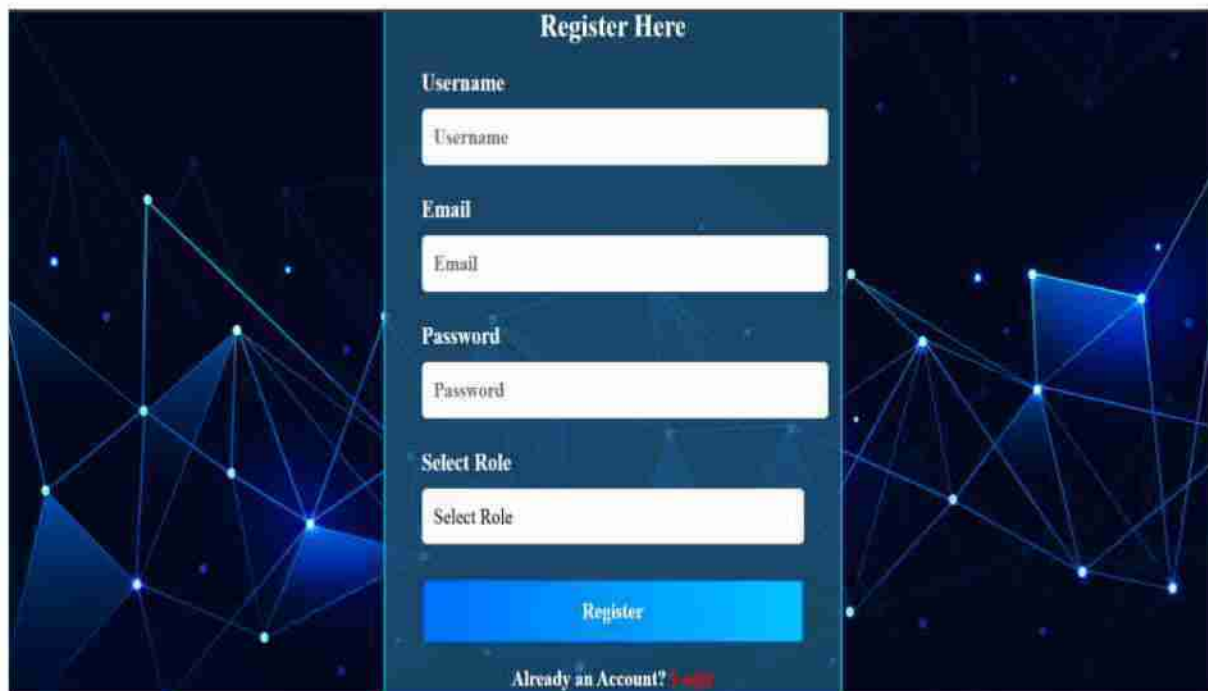
Select Role

Select Role

Login

Don't have an account? [Register](#)

## Registration

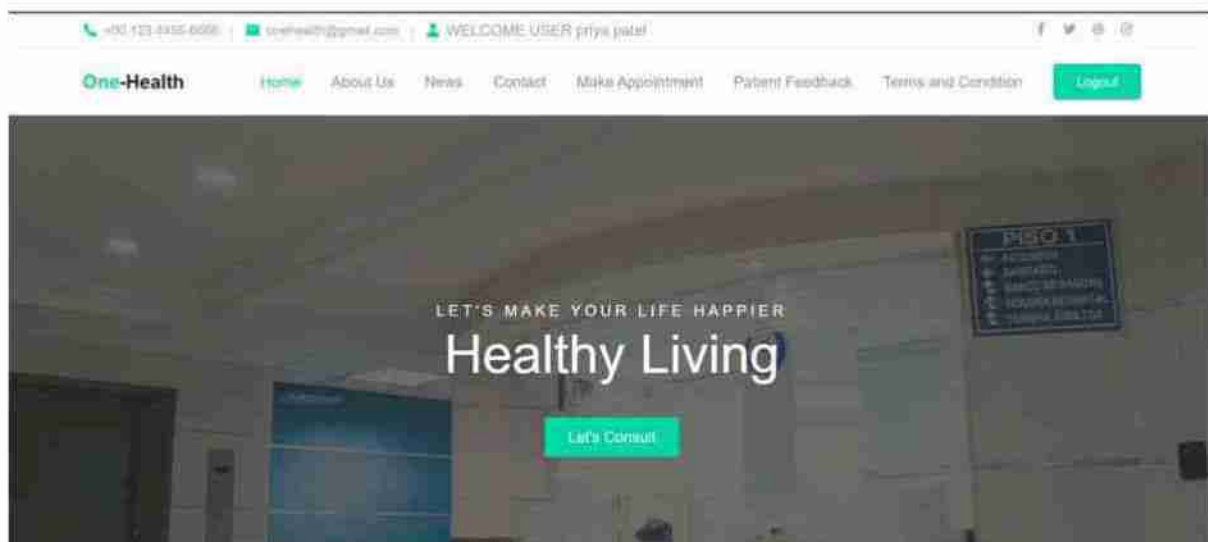


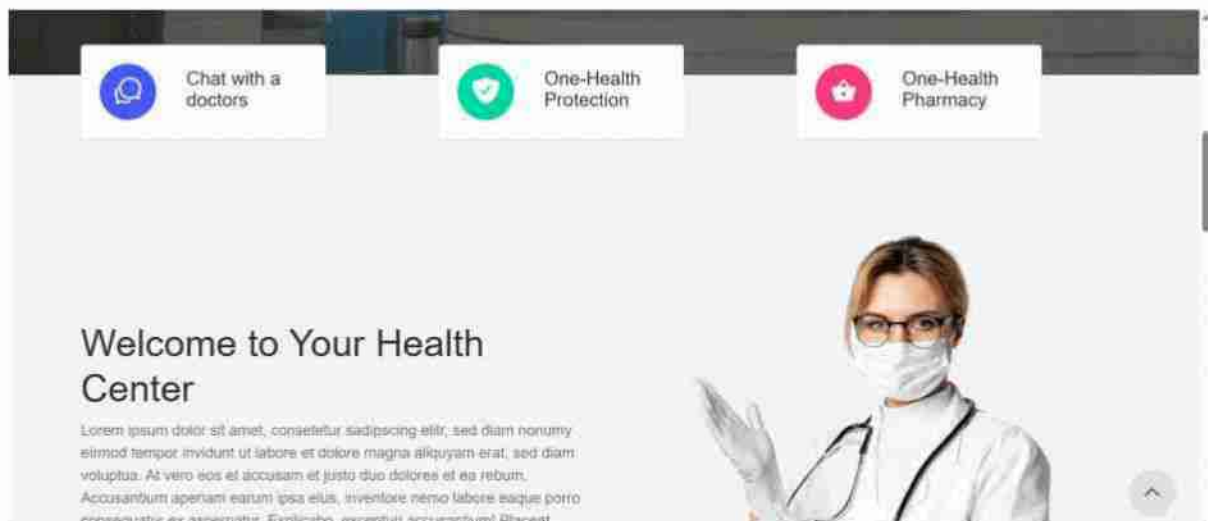
The registration form is titled "Register Here" and is set against a dark blue background with a network of glowing blue lines and dots. The form contains the following fields and elements:

- Username:** A text input field with the placeholder text "Username".
- Email:** A text input field with the placeholder text "Email".
- Password:** A text input field with the placeholder text "Password".
- Select Role:** A dropdown menu with the placeholder text "Select Role".
- Register:** A prominent blue button.
- Already an Account? [Login](#)**: A link at the bottom of the form.

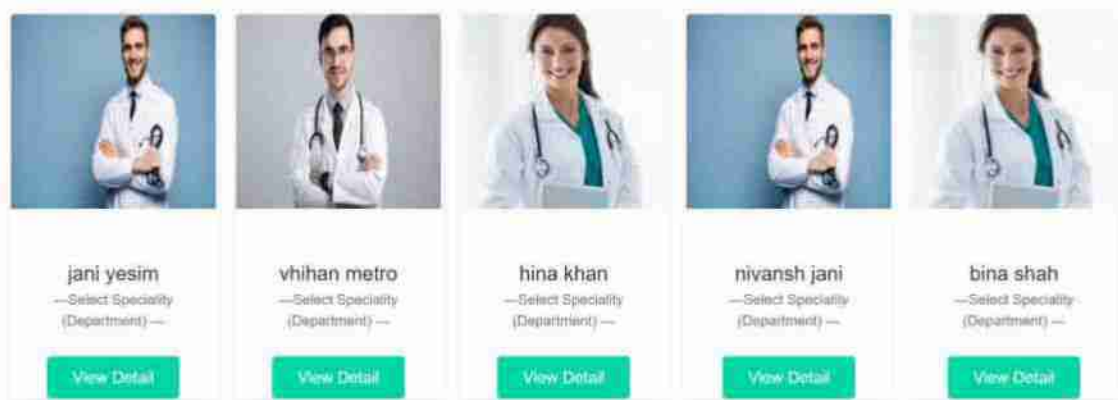
## 9. User Panel

### Home

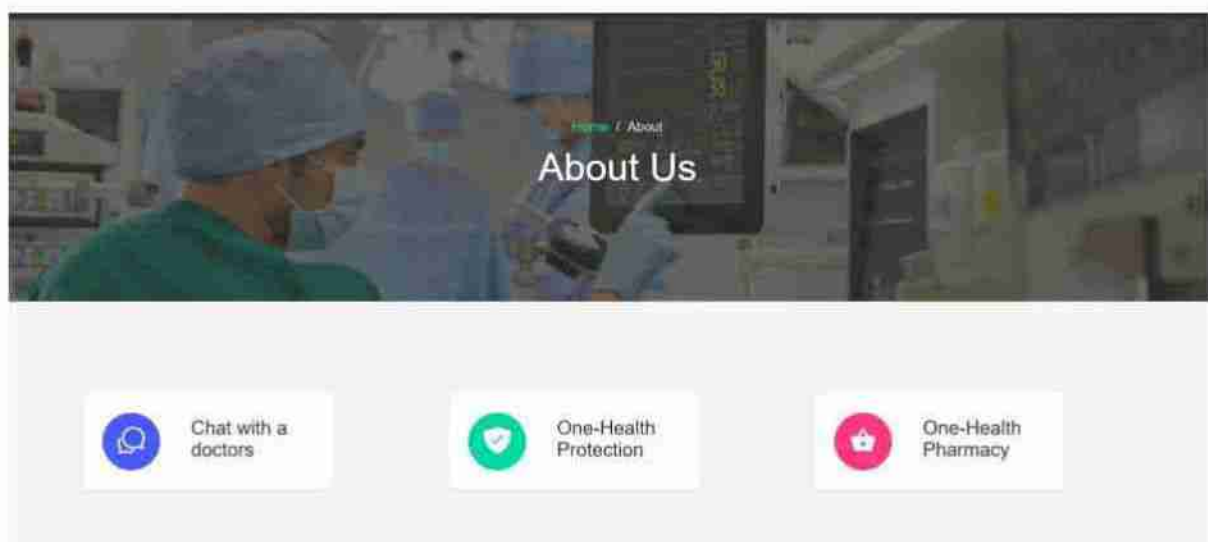





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### Kolhapur hospital revamped for heart transplant in future

Tue, 15 Apr 2025 07:04:44 +0530

Akshay Bafna, a cardiologist at CPR Hospital, said: "We are soon to get a new cath lab to perform the minimally invasive procedure to diagnose and treat heart conditions. Currently, we have 80-90 patients approaching for OPD consultation services in the department, and annually the patient count touches around 10,000. Last year, we carried out 1,600 minimally invasive surgeries."









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### Ujala Cygnus to acquire stakes in Amandeep Hospitals for North India push

Mon, 14 Apr 2025 14:10:26 +0530

Post this acquisition the hospital chain network will expand from "21 to 26 hospitals" and the total bed capacity will ramp up from, "2,000 beds to nearly 2,800 beds."

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<input type="text" value="Full name"/>	<input type="text" value="Email address"/>
<b>Subject</b>	<b>Message</b>
<input type="text" value="Enter subject"/>	<input type="text" value="Enter Message"/>

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## Make an Appointment

<p><b>Name</b></p> <p>Full name</p>	<p><b>Email</b></p> <p>Email address</p>
<p><b>Appointment Date</b></p> <p>yyyy-mm-dd</p>	<p><b>Apointment Time</b></p> <p></p>
<p><b>Symptoms</b></p> <p><input type="checkbox"/>Fever <input type="checkbox"/>Cough <input type="checkbox"/>Headache <input type="checkbox"/>Fatigue <input type="checkbox"/>Other</p>	<p><b>BloodGroup</b></p> <p>--Select BloodGroup--</p>
<p><b>Phone Number</b></p> <p>+91-</p>	<p><b>Speciality (Department)</b></p> <p></p>
<p><b>Select Doctor's Name:</b></p> <p></p>	

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## Rating & Review

**Rating**

1 2 3 4 5

**Review**

Patient Name	Email Address
Phone No.	Date of Visit yyyy-mm-dd
Time of Appointment	Select Doctor's Name
Speciality (Department)	
Waiting Time <input type="radio"/> Short <input type="radio"/> Average <input type="radio"/> Long	Doctor's Friendliness & Communication <input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Average <input type="radio"/> Poor
Clinic/Hospital Cleanliness <input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Average <input type="radio"/> Poor	Overall Experience <input type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Average <input type="radio"/> Poor
Suggestions for Improvement Enter your suggestions..	Additional Comments Enter additional comments..

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## 10. CONCLUSION AND DISCUSSION

- ❖ The demand for Web applications is increasing day by day in the Software industry, due to high expectations of client companies.
- ❖ Hence an attempt of automating an office application had added to our learning experience.
- ❖ It has also helped in adopting an analytical approach to solving and made us realize that system development is a step-by-step process, There by appreciating the role of SDLC model in organizing the complex process of system development into manageable chunks.
- ❖ Indeed, it was a great learning experience.

## 11. REFERENCES

- ❖ [www.asp.net](http://www.asp.net)
- ❖ [www.tutorialspoint.com/asp.net/](http://www.tutorialspoint.com/asp.net/)
- ❖ [www.google.com](http://www.google.com)
- ❖ [www.slideshare.com](http://www.slideshare.com)