

**A
Project
Report on
HOSPITAL MANAGEMENT SYSTEM
Submitted To**



**Batch No.2022-7891
Under the
Guidance of
Trainer Mr. Yogesh Jangale**

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Introduction

Hospital Management System provides the benefits of enhanced administration and control , superior patients care , strict cost control and improved profitability.

HMS is powerful, flexible , and easy to use and designed and developed to deliver real conceivable benefits to hospital. More importantly it is backed by reliable and dependable support.

Propose System:

The new system is to control the following information:

- 1. Patient information**
- 2. Doctor availability**
- 3. Appointment system**
- 4. Medication History**

These service are to be provided in an efficient, cost effective manner, with the goal of reducing the time and resources currently reature for such tasks.

Objectives:

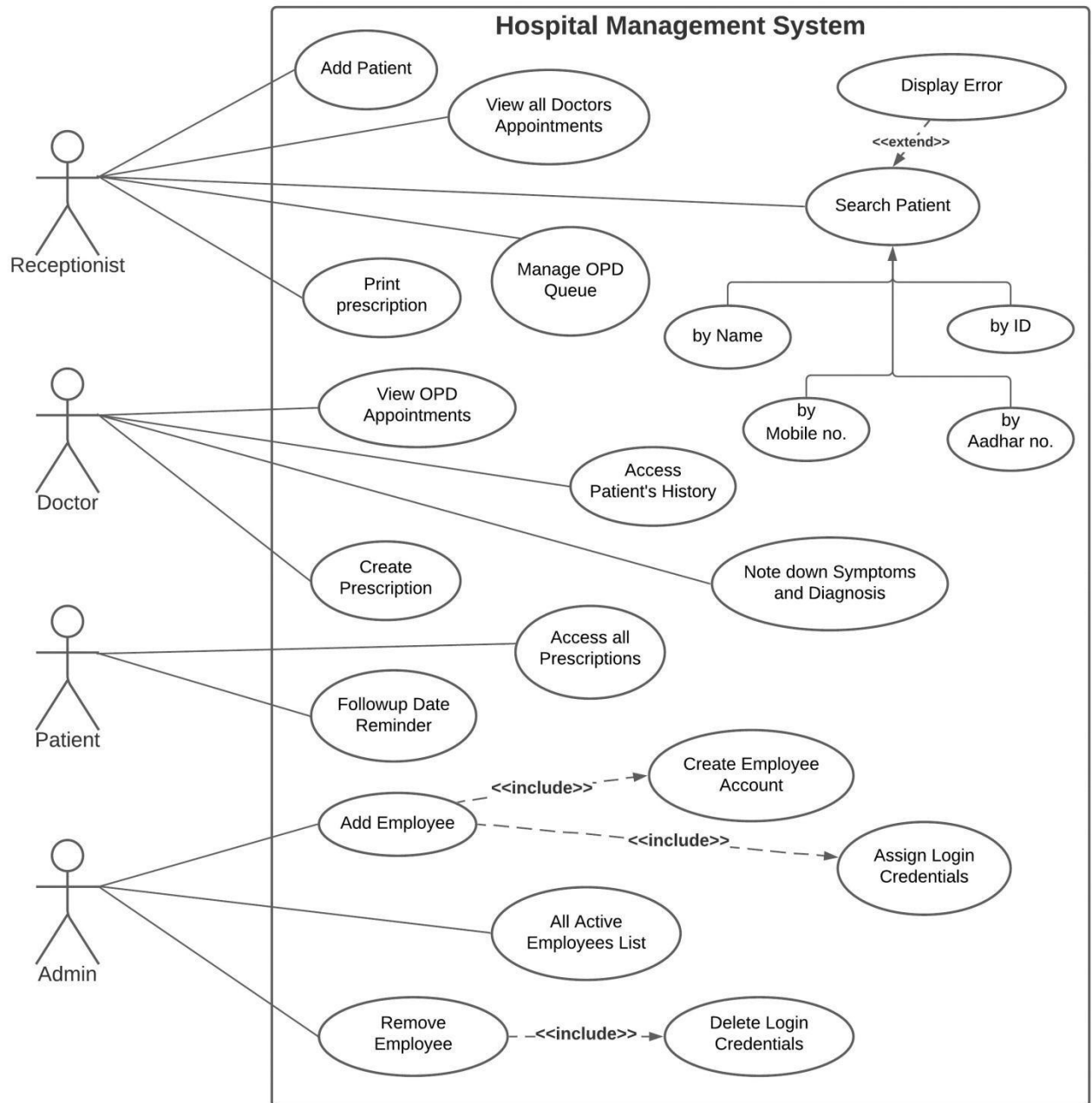
- Design a system for better patient care.**
- Reduce hospital operating costs.**
- Provide MIS (Management Information System) report on demand to management for better decision making.**
- Better co-ordination among the different departments.**
- The infoemation of the patients should be kept up to date and there record should be kept in the system for historical purposes.**

Needs of Hospital Management System:

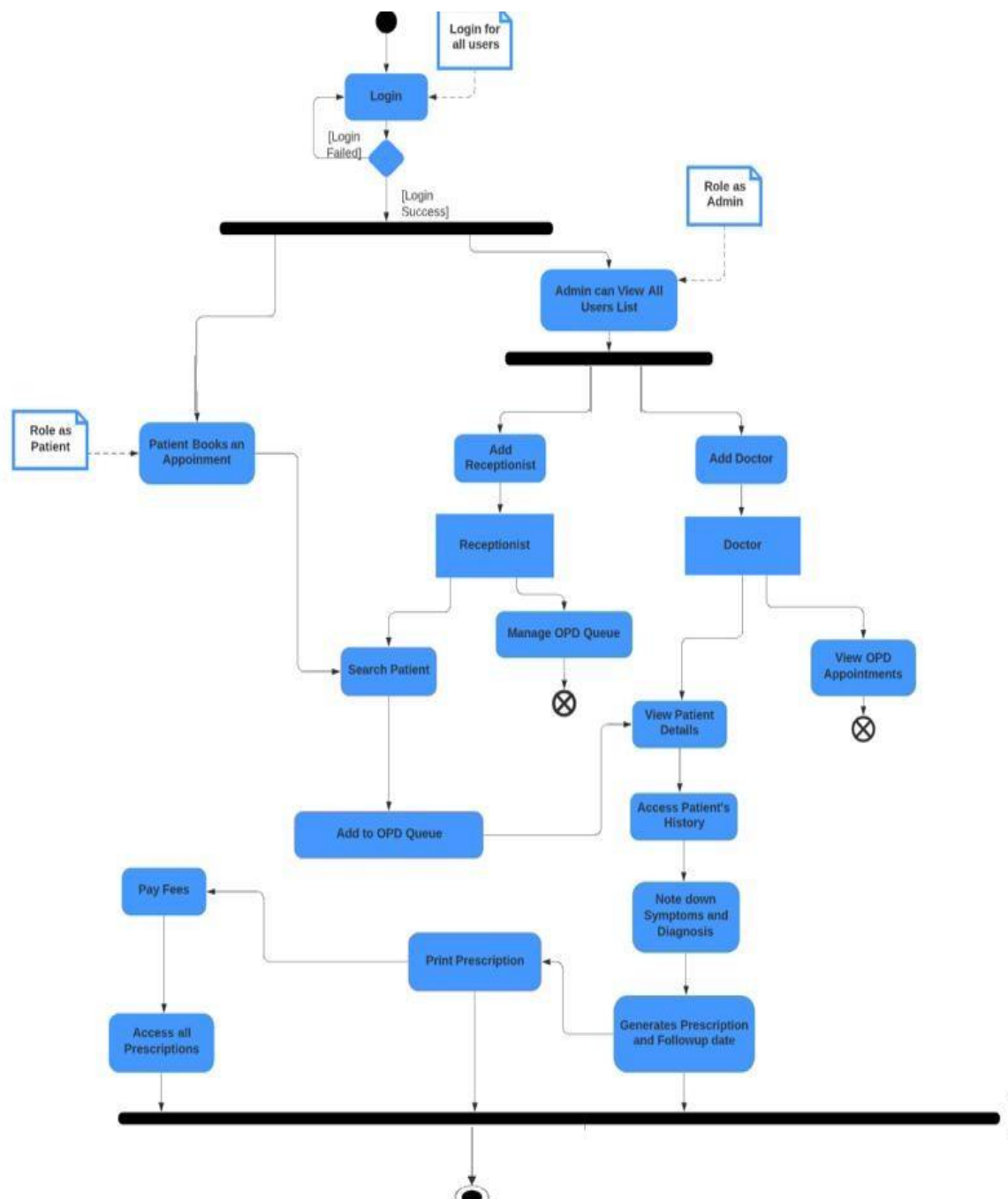
- To keep track of hospitals day-to-day activities & records of its patients, doctors that keep the hospital running smoothly & successfully there is need of Hospital management System
- To digitalize all the version of the manual system.
- To provide a paper-less hospital up to 90%, i.e. To provide low-cost reliable digitalization of the existing systems.
- To digitalize, the process of day-to-day activities like Registering New Patient, Assigning a Doctor to new patient, Adding new staff members, and finally compute the bill etc.
- To provide excellent security of data at every level of usersystem interaction and also to provide robust & reliable storage facility.

System Diagrams:

1. Usecase Diagram:

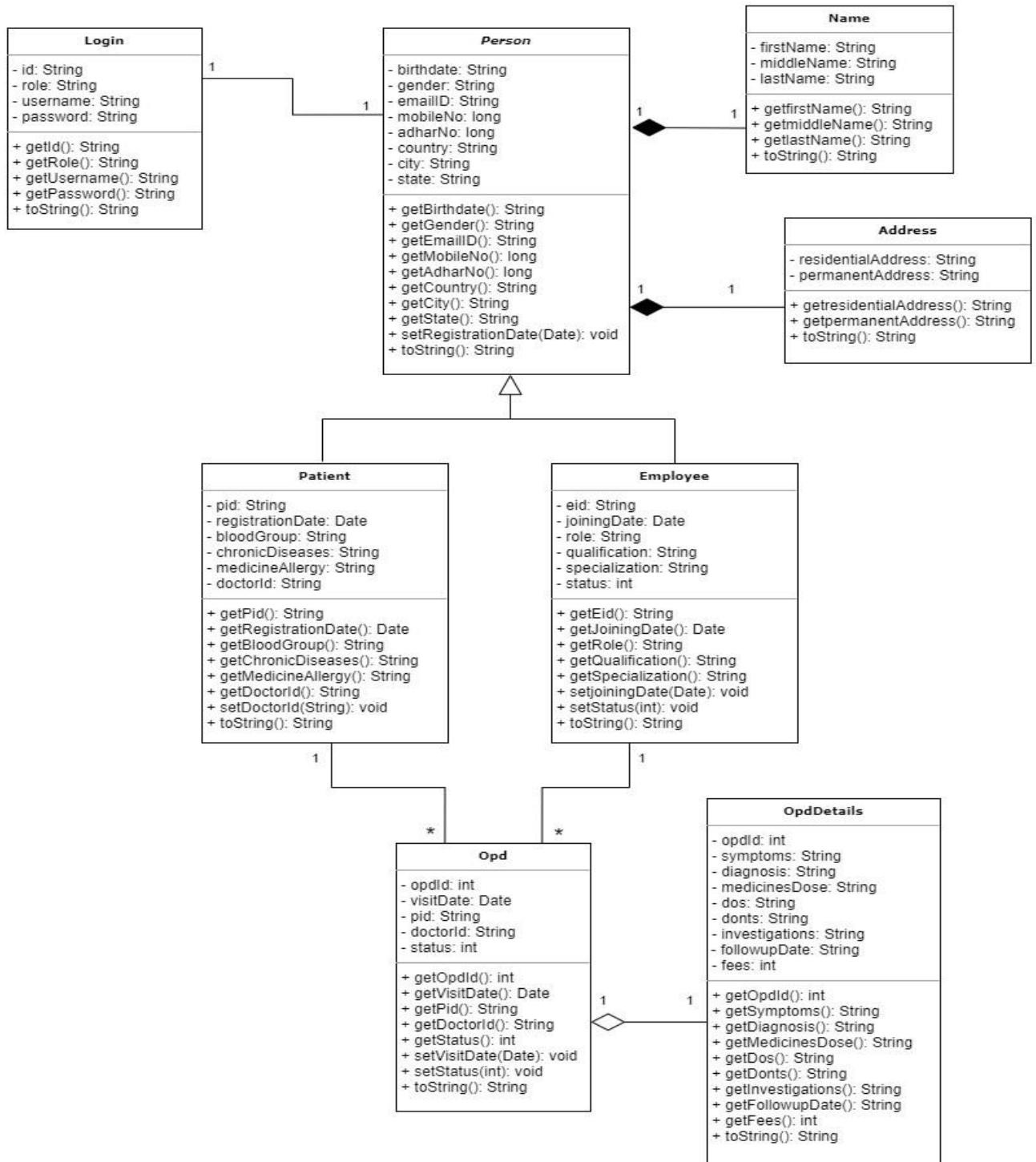


Activity Diagram:

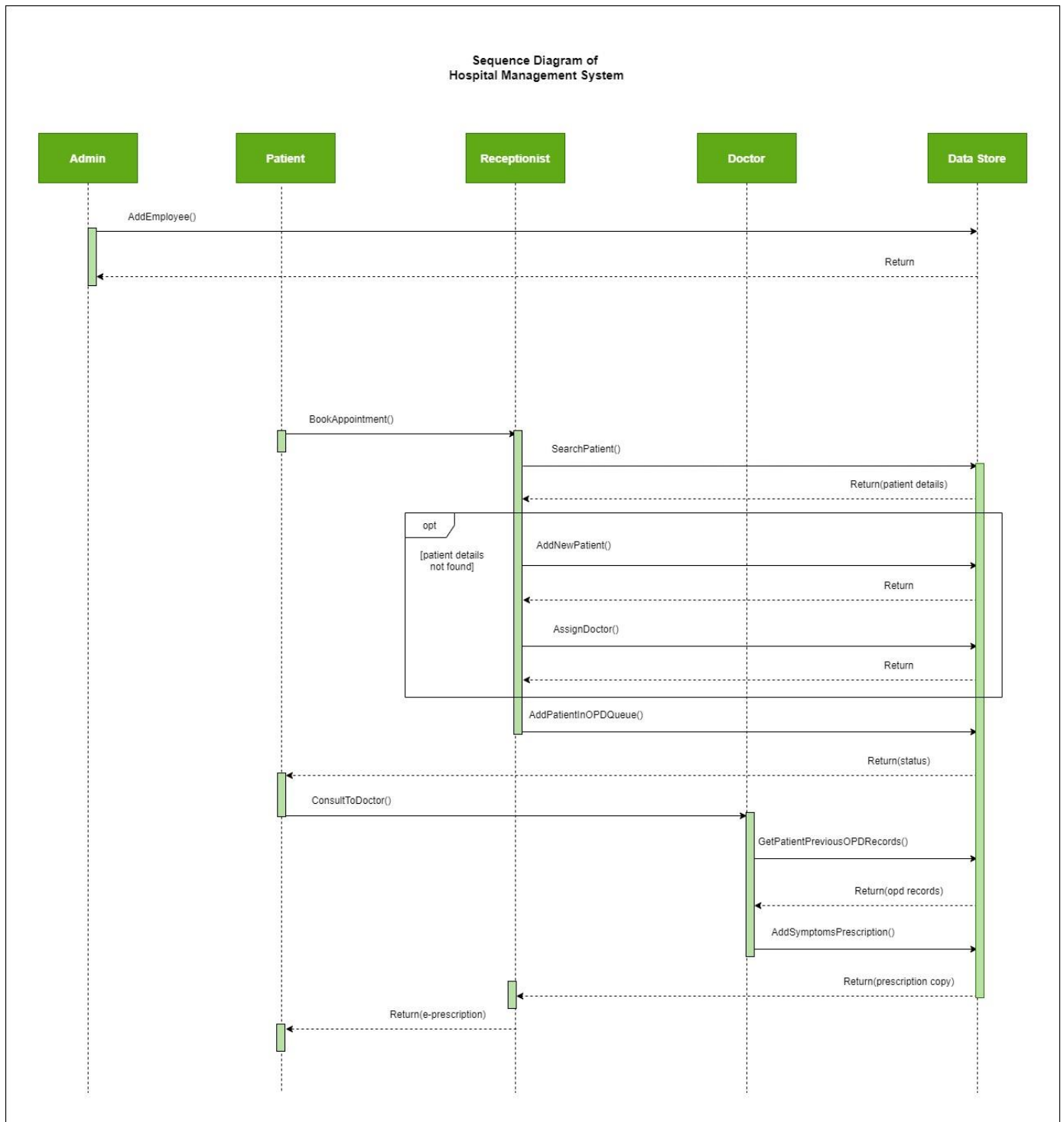


3.Class Diagram:

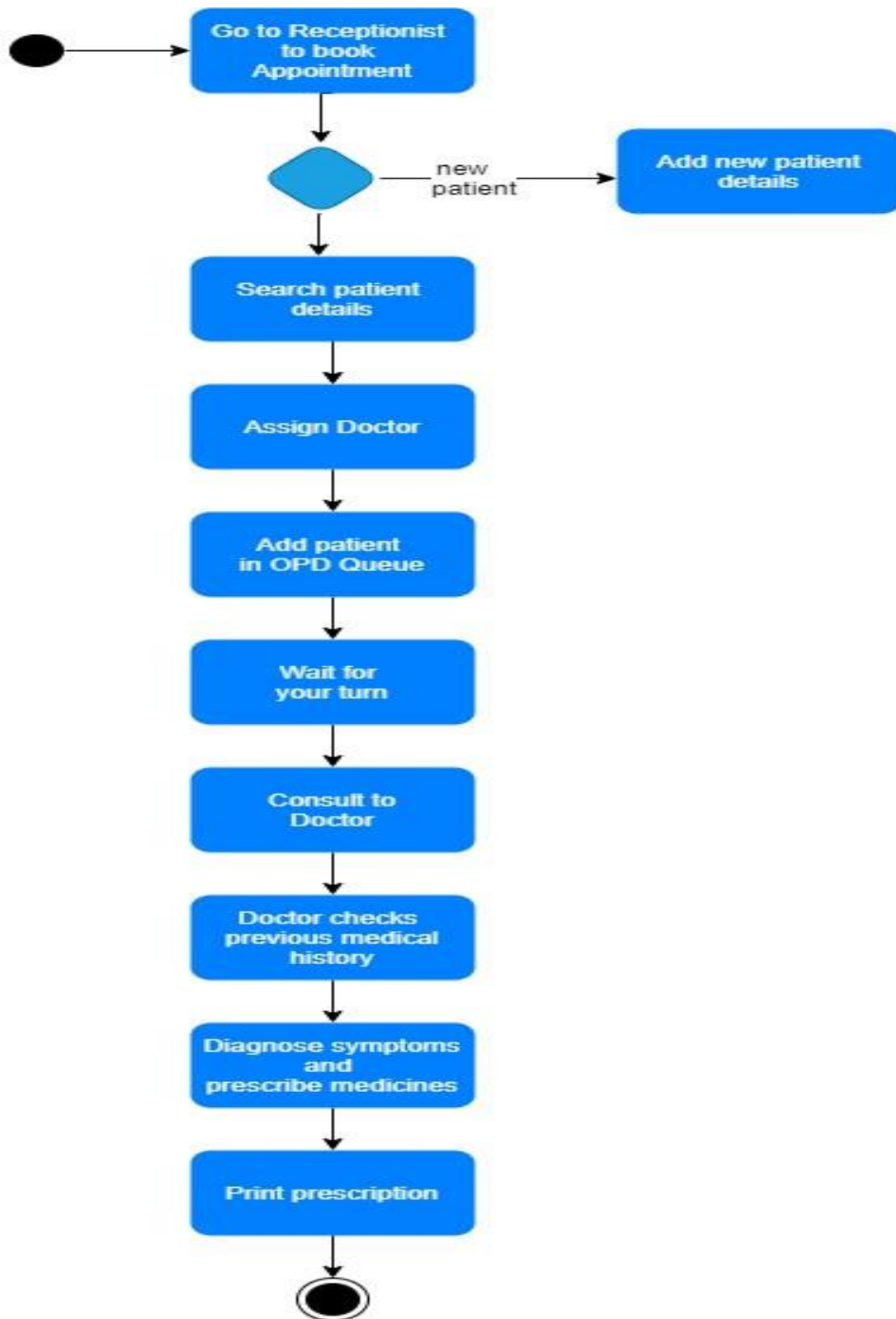
Hospital Management System



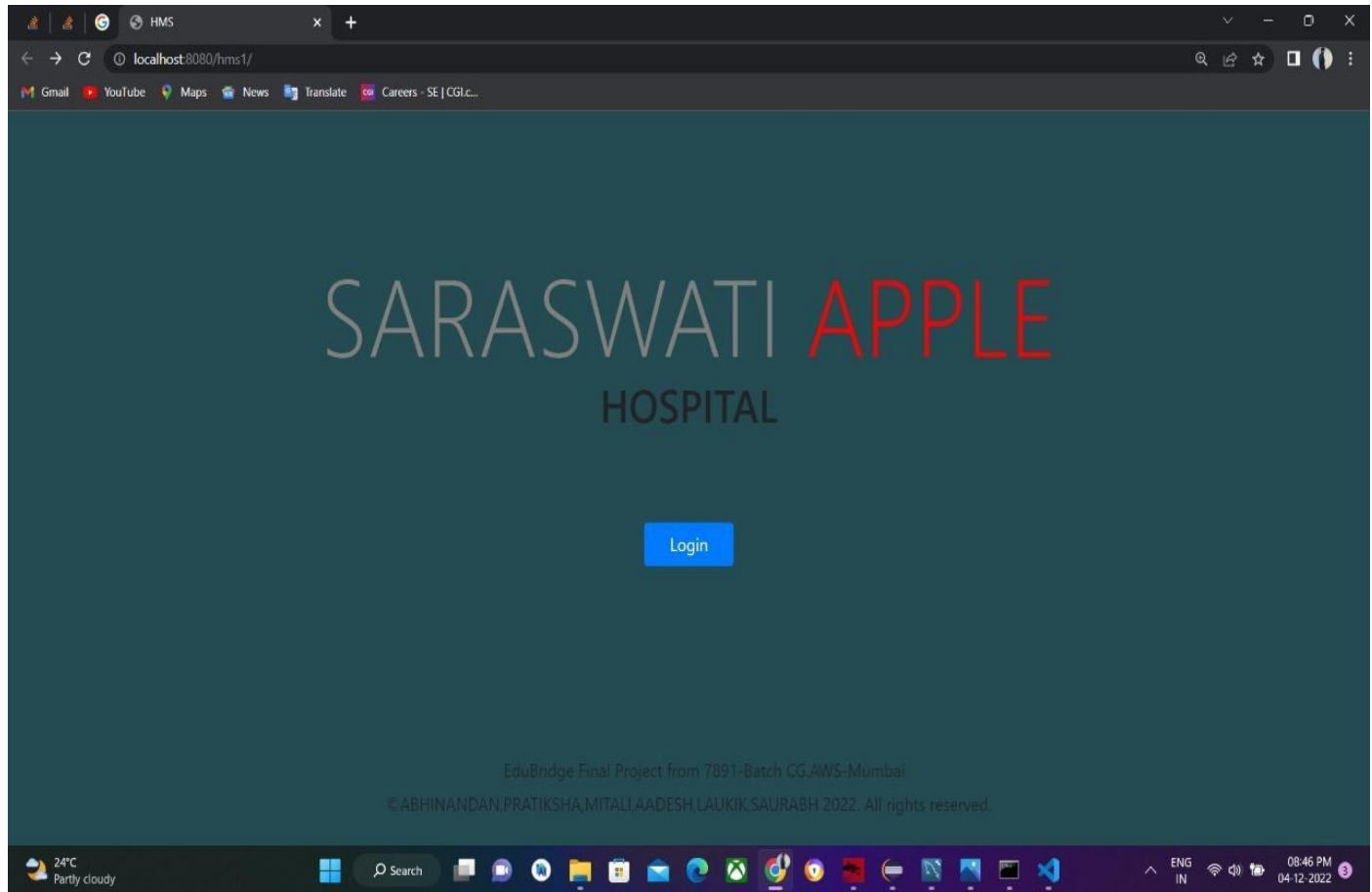
4. Sequence Diagram:

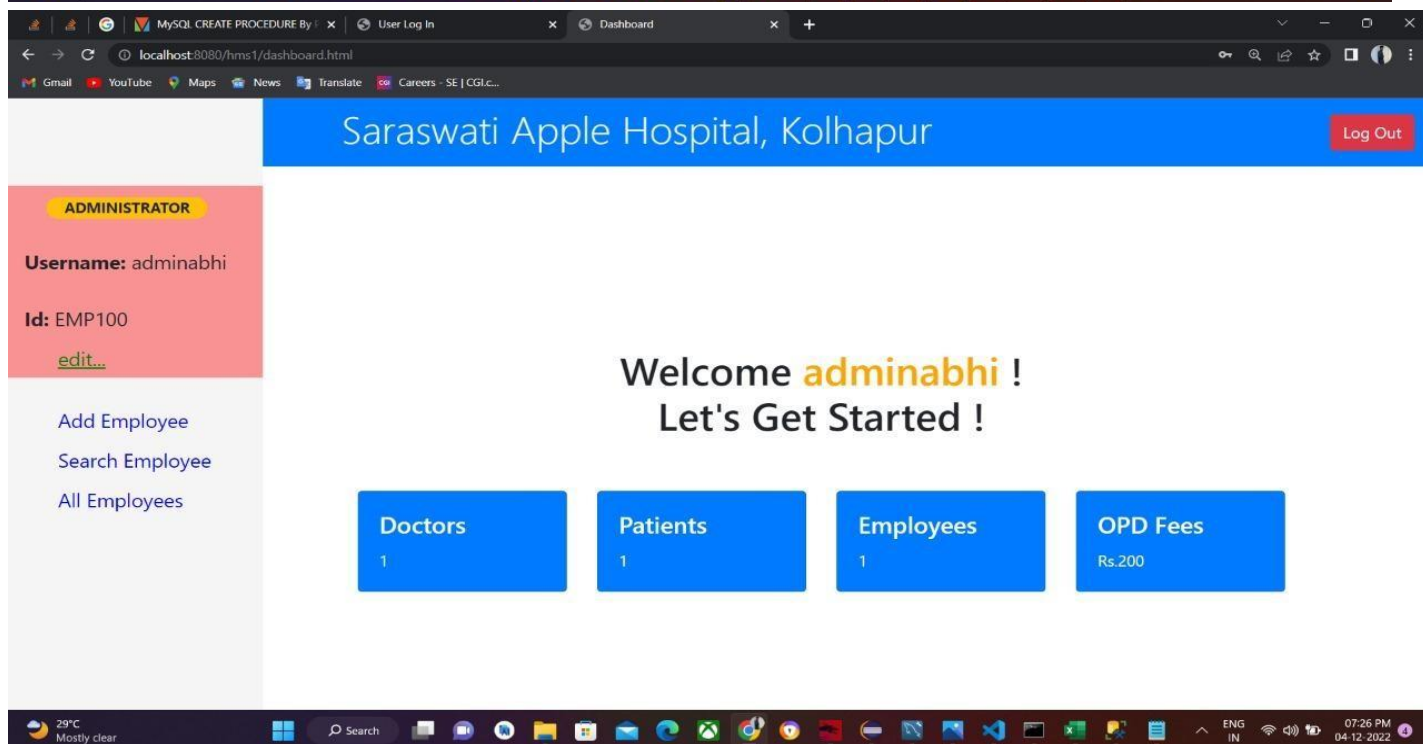
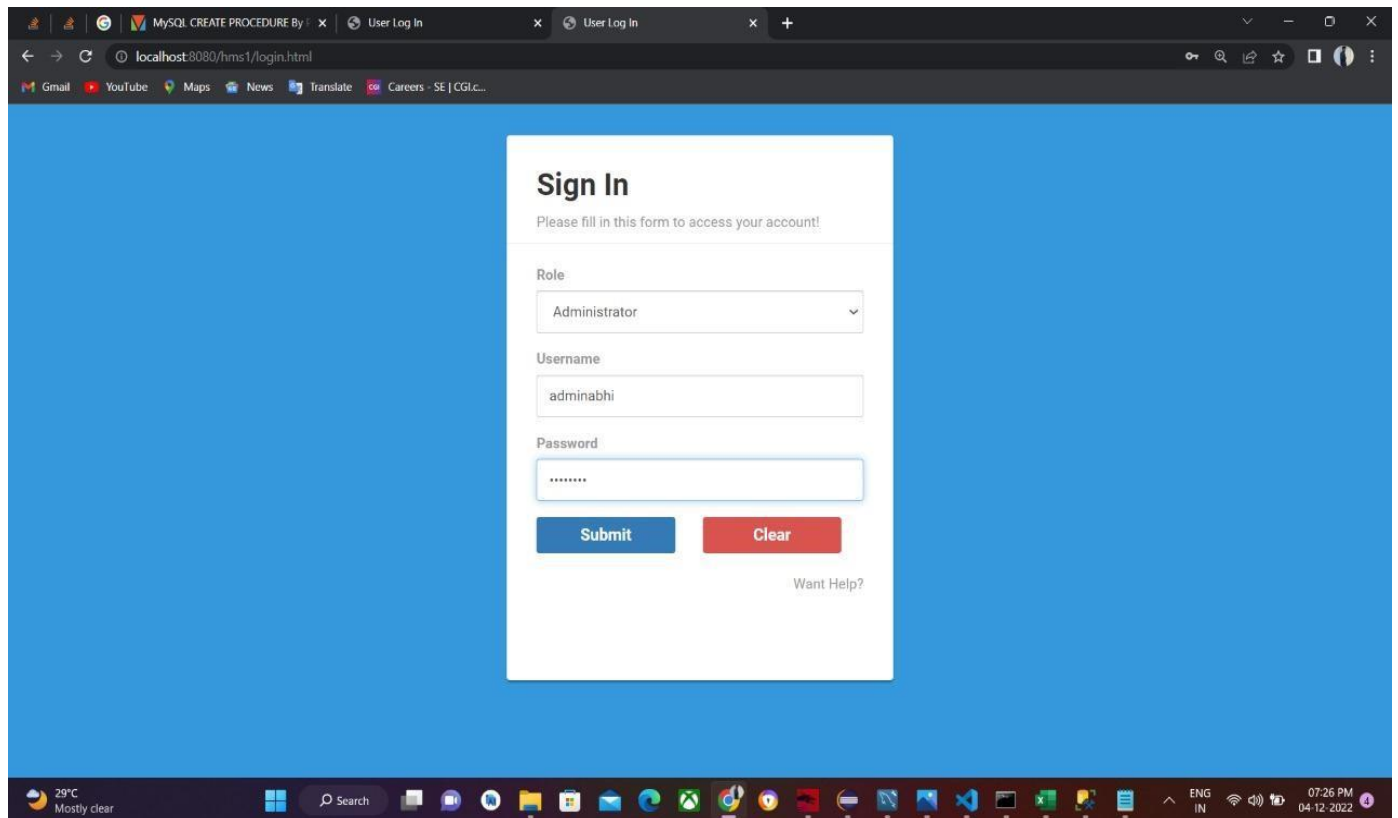


5. State Diagram:



Form Design:





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Saraswati Apple Hospital, Kolhapur Log Out

ADMINISTRATOR

Username: adminabhi

Id: EMP100

[edit...](#)

> Add Employee

Search Employee

All Employees

Add New Employee

Name

First Name Middle Name Last Name

Birthdate

dd-mm-yyyy

Gender

Female

Email address

Enter Email

Mobile No

Enter Mobile No

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ADMINISTRATOR

Username: adminabhi

Id: EMP100

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Add Employee

> Search Employee

All Employees

Search Existing Employee

By Name

Firstname

first name

Lastname

last name

Submit

By Id

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ADMINISTRATOR

Username: adminabhi

Id: EMP100

[edit...](#)

[Add Employee](#)

[Search Employee](#)

[All Employees](#)

All Employees

Id	Name	Role	Action
EMP101	Rajesh Kuber Madnaik	doctor	View

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ADMINISTRATOR

Username: adminabhi

Id: EMP100

[edit...](#)

[Add Employee](#)

[Search Employee](#)

[All Employees](#)

Employee Details

Joining Date	2022-12-04
ID	EMP101
Name	Rajesh Kuber Madnaik
Birthdate	1988-01-07
Gender	male
Email ID	dr.rajeshmadnaik@gmail.com
Mobile number	9013456893
Adhar number	143590034912
Country	india
State	maharashtra

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DOCTOR

Username: Emp101

Id: EMP101

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Personal Info

OPD Queue

Search Patient

Patient General Info

History

Observations

Prescription

Welcome **Emp101** !

Let's Get Started !

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DOCTOR

Username: Emp101

Id: EMP101

[edit...](#)

Personal Info

OPD Queue

> Search Patient

Patient General Info

History

Observations & Prescription

Search Existing Patient

By Name

Firstname

first name

Lastname

last name

Search

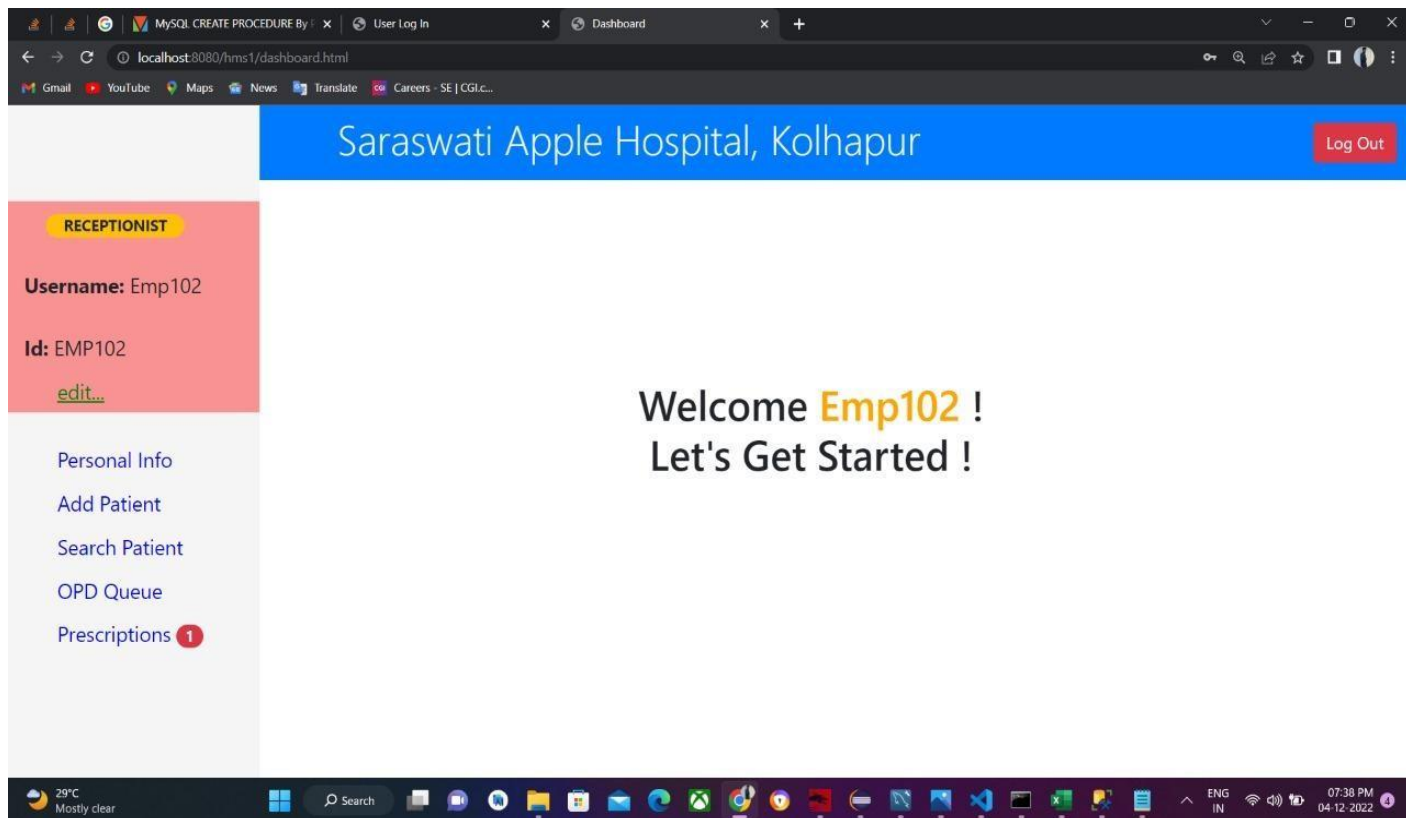
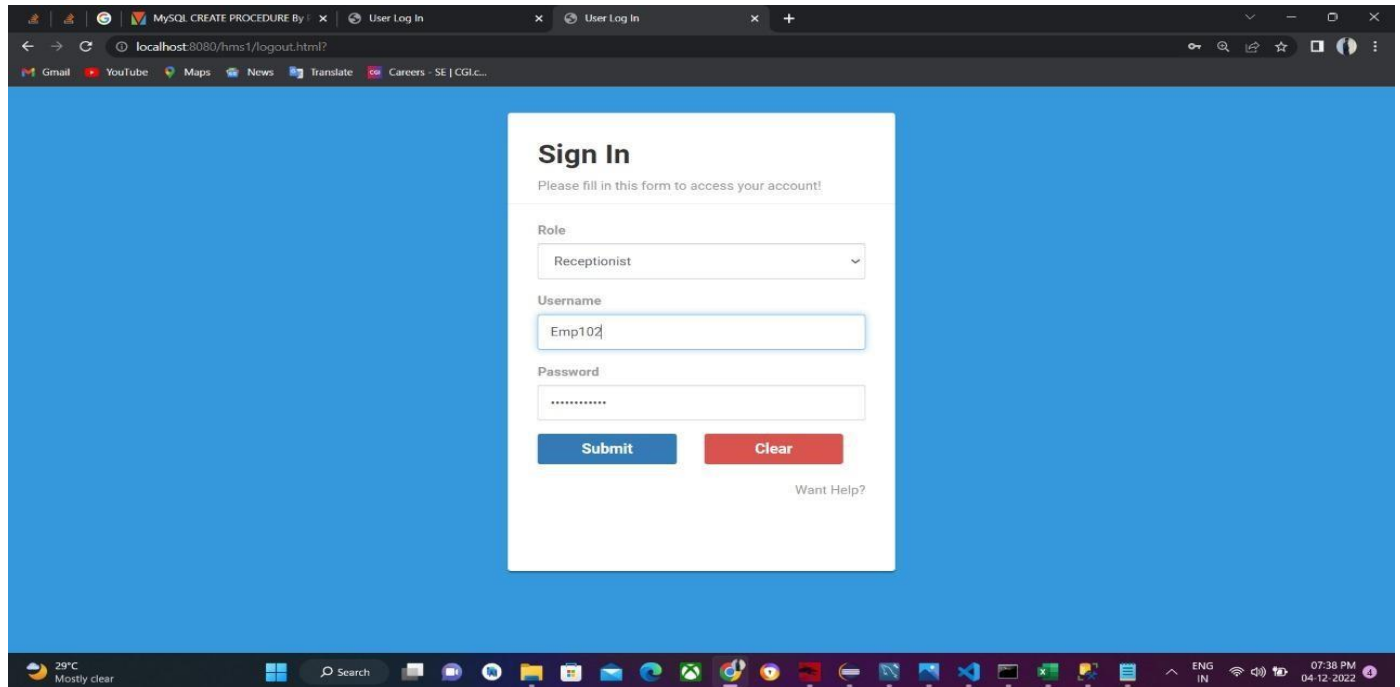
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Saraswati Apple Hospital, Kolhapur

Log Out

RECEPTIONIST

Username: Emp102

Id: EMP102

edit...

> Personal Info

Add Patient

Search Patient

OPD Queue

Prescriptions 1

Joining Date	2022-12-04
ID	EMP102
Name	Sneha Pravin Madnaik
Birthdate	1998-06-14
Gender	female
Email ID	snehamadnaik@gmail.com
Mobile number	9087878876
Adhar number	998866554432
Country	India
State	Maharashtra

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Log Out

RECEPTIONIST

Username: Emp102

Id: EMP102

edit...

Personal Info

> Add Patient

Search Patient

OPD Queue

Prescriptions 1

Name

First Name

Middle Name

Last Name

Birthdate

dd-mm-yyyy

Gender

Female

Email address

Enter Email

Mobile No

Enter Mobile No

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Search

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Log Out

RECEPTIONIST

Username: Emp102

Id: EMP102

edit...

Personal Info

Add Patient

Search Patient

OPD Queue

> Prescriptions 1

Patient Prescriptions

Patient Id	Patient Name	Prescription	Action
P101	Ashlesha Atul Narkhede	Print	Cancel

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Search

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User Log In

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SARASWATI APPLE HOSPITAL

Dr. Rajesh Kumar Madhukar MBBS(MD)Gen. Surgeon

Name: Ashlesha Atul Narkhede 1

Rx

Medicines & Dose: - Crocin (2 times)
- Neurolin-B (3 times)

Do's: - drink warm water

Don'ts: - junk food

Investigations: none

Follow up Date: 2022-12-04

Fees: 200

Our Centers

1. Saraswati Apple Hospital, Dalhousie Corner, Kolhapur, Maharashtra 416001 | 2. D.Y. Patil Multipurpose Hospital, Kalamnuri, Kolhapur, Maharashtra 416001

Mobile No. 9864757573 | Phone No. 0231-2575157 | E-mail: drrajeshkumar@gmail.com

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Options:

Headers and footers

Background graphics

Save Cancel

Fees: 200

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Database:

MySQL 8.0 Command Line Client

mysql> use hospital;

Database changed

mysql> show tables;

Tables_in_hospital
employee
idgenerate
login
opd
opddetails
patient

6 rows in set (0.01 sec)

mysql> show columns from employee;

Field	Type	Null	Key	Default	Extra
joiningDate	date	YES		NULL	
eid	varchar(255)	NO	PRI	NULL	
firstName	varchar(255)	YES		NULL	
middleName	varchar(255)	YES		NULL	
lastName	varchar(255)	YES		NULL	
birthdate	varchar(255)	YES		NULL	
gender	varchar(255)	YES		NULL	
emailID	varchar(255)	YES	UNI	NULL	
mobilen0	bigint	YES	UNI	NULL	
adharNo	bigint	YES	UNI	NULL	
country	varchar(255)	YES		NULL	
state	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
residentialAddress	varchar(255)	YES		NULL	
permanentAddress	varchar(255)	YES		NULL	
role	varchar(255)	YES		NULL	
qualification	varchar(255)	YES		NULL	
specialization	varchar(255)	YES		NULL	
status	int	YES		NULL	

19 rows in set (0.02 sec)

mysql> show columns from idgenerate;

Field	Type	Null	Key	Default	Extra
eid	int	NO	PRI	NULL	
pid	int	NO	UNI	NULL	

29°C
Sunny



Search

12-29 PM
06-12-2022

MySQL 8.0 Command Line Client

mysql> show columns from login;

Field	Type	Null	Key	Default	Extra
id	varchar(155)	YES		NULL	
role	varchar(255)	YES		NULL	
username	varchar(255)	NO	PRI	NULL	
password	varchar(255)	YES		NULL	

4 rows in set (0.00 sec)

mysql> show columns from opd;

Field	Type	Null	Key	Default	Extra
opdid	int	NO	PRI	NULL	auto_increment
visitdate	date	YES		NULL	
pid	varchar(255)	YES	MUL	NULL	
doctorid	varchar(255)	YES	MUL	NULL	
status	int	NO		NULL	

5 rows in set (0.00 sec)

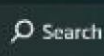
mysql> show columns from opddetails;

Field	Type	Null	Key	Default	Extra
opdid	int	YES	MUL	NULL	
symptoms	varchar(255)	YES		NULL	
diagnosis	varchar(255)	YES		NULL	
medicinesDose	varchar(255)	YES		NULL	
dos	varchar(255)	YES		NULL	
donts	varchar(255)	YES		NULL	
investigations	varchar(255)	YES		NULL	
followupDate	varchar(255)	YES		NULL	
fees	varchar(255)	YES		NULL	

9 rows in set (0.00 sec)

mysql> show columns from patient;

Field	Type	Null	Key	Default	Extra
registrationDate	date	YES		NULL	
pid	varchar(255)	NO	PRI	NULL	
firstName	varchar(255)	YES		NULL	
middleName	varchar(255)	YES		NULL	
lastName	varchar(255)	YES		NULL	
birthdate	varchar(255)	YES		NULL	



```
MySQL 8.0 Command Line Client
+-----+
9 rows in set (0.00 sec)

mysql> show columns from patient;
+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+
| registrationDate | date          | YES  |     | NULL    |       |
| pid             | varchar(255)  | NO   | PRI | NULL    |       |
| firstName       | varchar(255)  | YES  |     | NULL    |       |
| middleName      | varchar(255)  | YES  |     | NULL    |       |
| lastName        | varchar(255)  | YES  |     | NULL    |       |
| birthdate       | varchar(255)  | YES  |     | NULL    |       |
| gender          | varchar(255)  | YES  |     | NULL    |       |
| emailID         | varchar(255)  | YES  | UNI | NULL    |       |
| mobileno        | bigint        | YES  |     | NULL    |       |
| adharNo         | bigint        | YES  | UNI | NULL    |       |
| country         | varchar(255)  | YES  |     | NULL    |       |
| state           | varchar(255)  | YES  |     | NULL    |       |
| city            | varchar(255)  | YES  |     | NULL    |       |
| residentialAddress | varchar(255)  | YES  |     | NULL    |       |
| permanentAddress | varchar(255)  | YES  |     | NULL    |       |
| bloodGroup      | varchar(5)    | YES  |     | NULL    |       |
| chronicDiseases  | varchar(255)  | YES  |     | NULL    |       |
| medicineAllergy  | varchar(255)  | YES  |     | NULL    |       |
| doctorId        | varchar(255)  | YES  | MUL | NULL    |       |
+-----+
19 rows in set (0.00 sec)

mysql>
```

Benefits of Hospital Management System:

1. Make prescription readable and understandable to patients.

2. Eliminate redundancy in term of data storage. Data will be store in a computer not heap of files.
3. Reduce the time wastage in retrieving data especially in finding a past health records.
4. Increase Efficiency and Interactive in any area of specialization in the hospital.
5. Able to quickly collect and edit data summarize result and adjust as well as collect errors promptly.
6. for small or middle scale hospitals.

Future Scope:

- To include patient module
 - To manage IPD section

Bibliography:

- [W3School.com](https://www.w3schools.com)
- [YouTube.com](https://www.youtube.com)
- www.google.com