

**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:

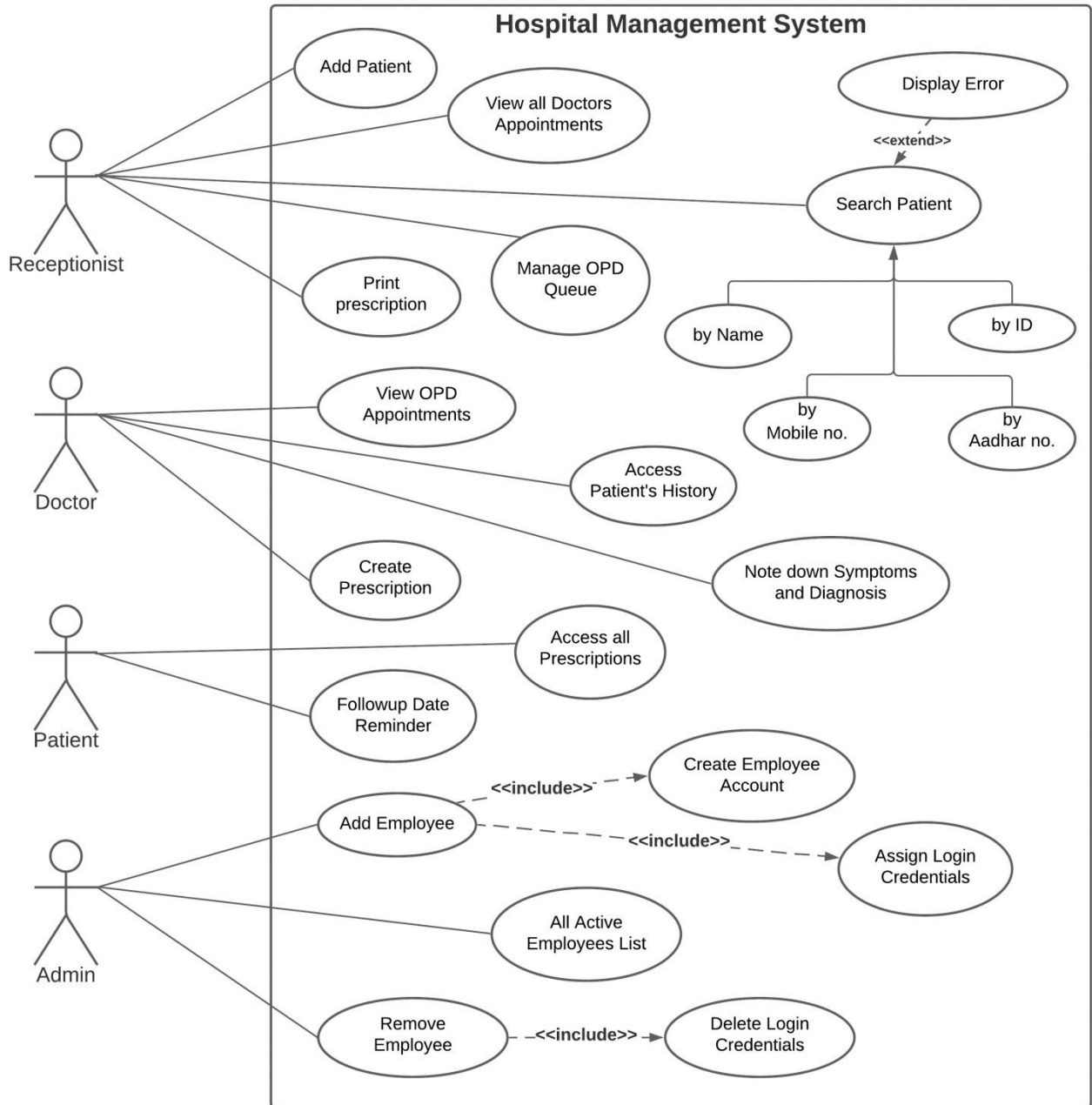
- **Design a system for better patient care.**
- **Reduce hospital operating costs.**
- **Provide MIS (Management Information System) report on demand to management for better decision making.**
- **Better co-ordination among the different departments.**
- **The information of the patients should be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

Needs of Hospital Management System:

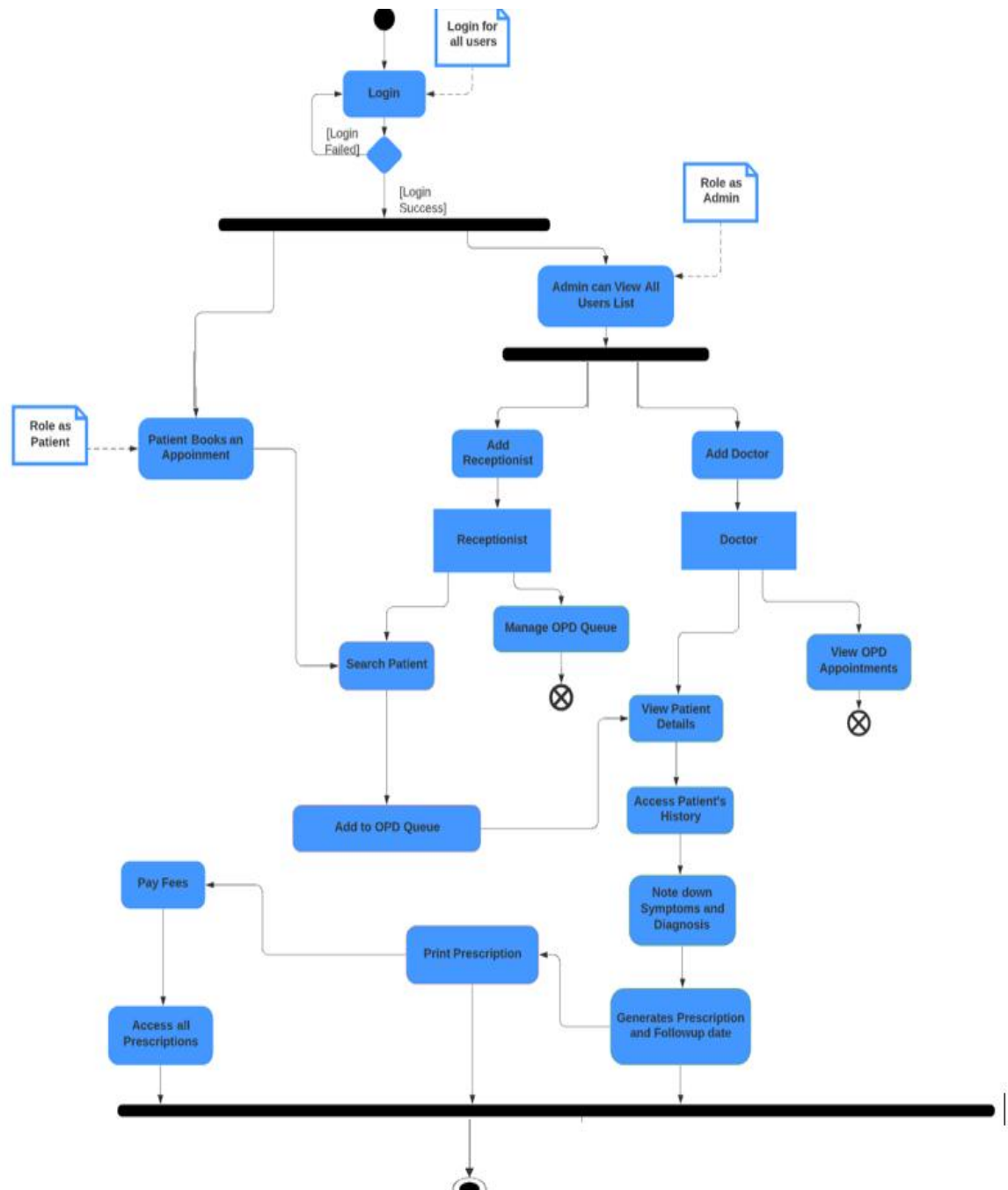
- To keep track of hospitals day-to-day activities & records of its patients, doctors that keep the hospital running smoothly & successfully there is need of Hospital management System
- To digitalize all the version of the manual system.
- To provide a paper-less hospital up to 90%, i.e. To provide 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 user-system interaction and also to provide robust & reliable storage facility.

System Diagrams:

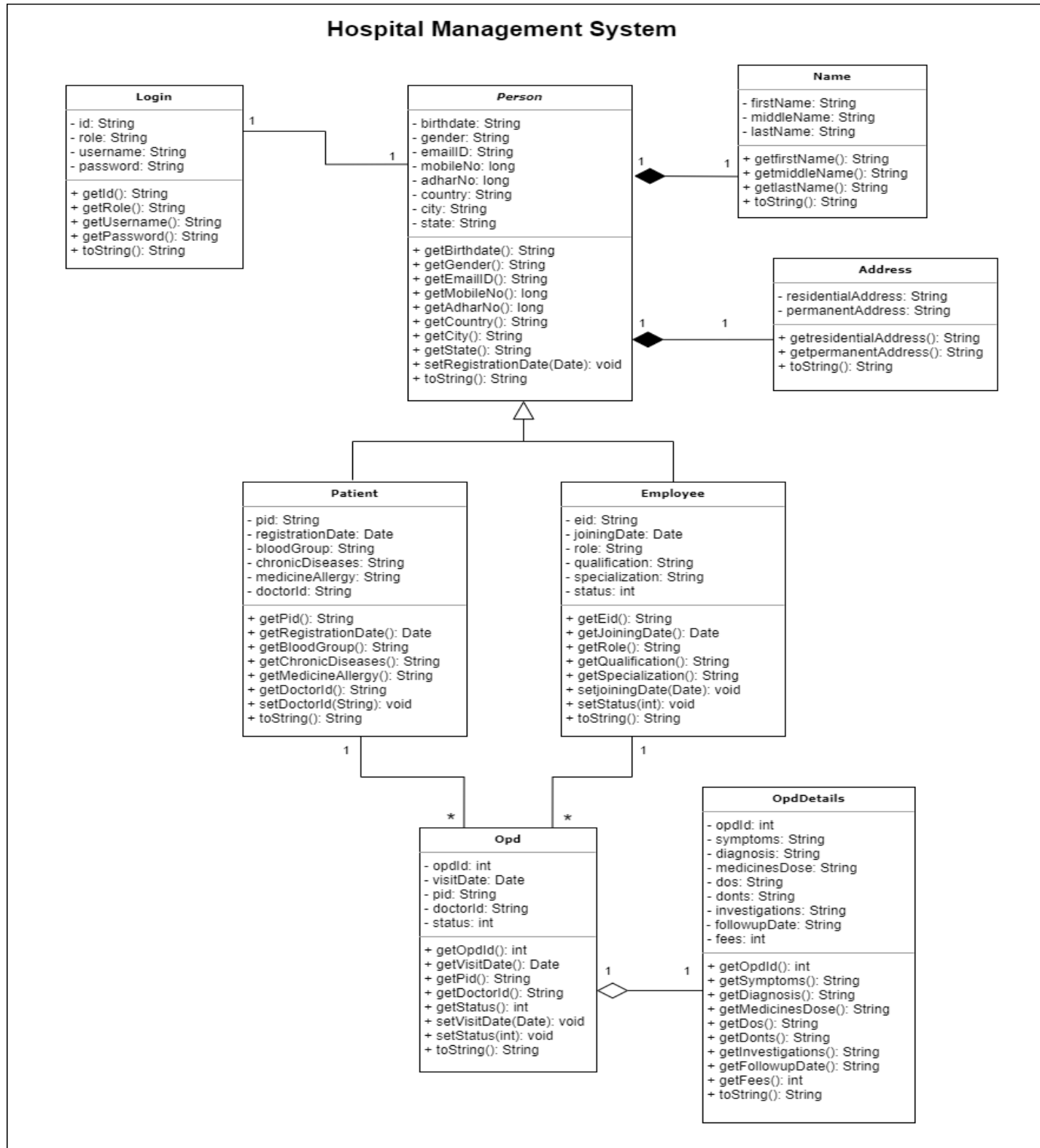
1. Usecase Diagram:



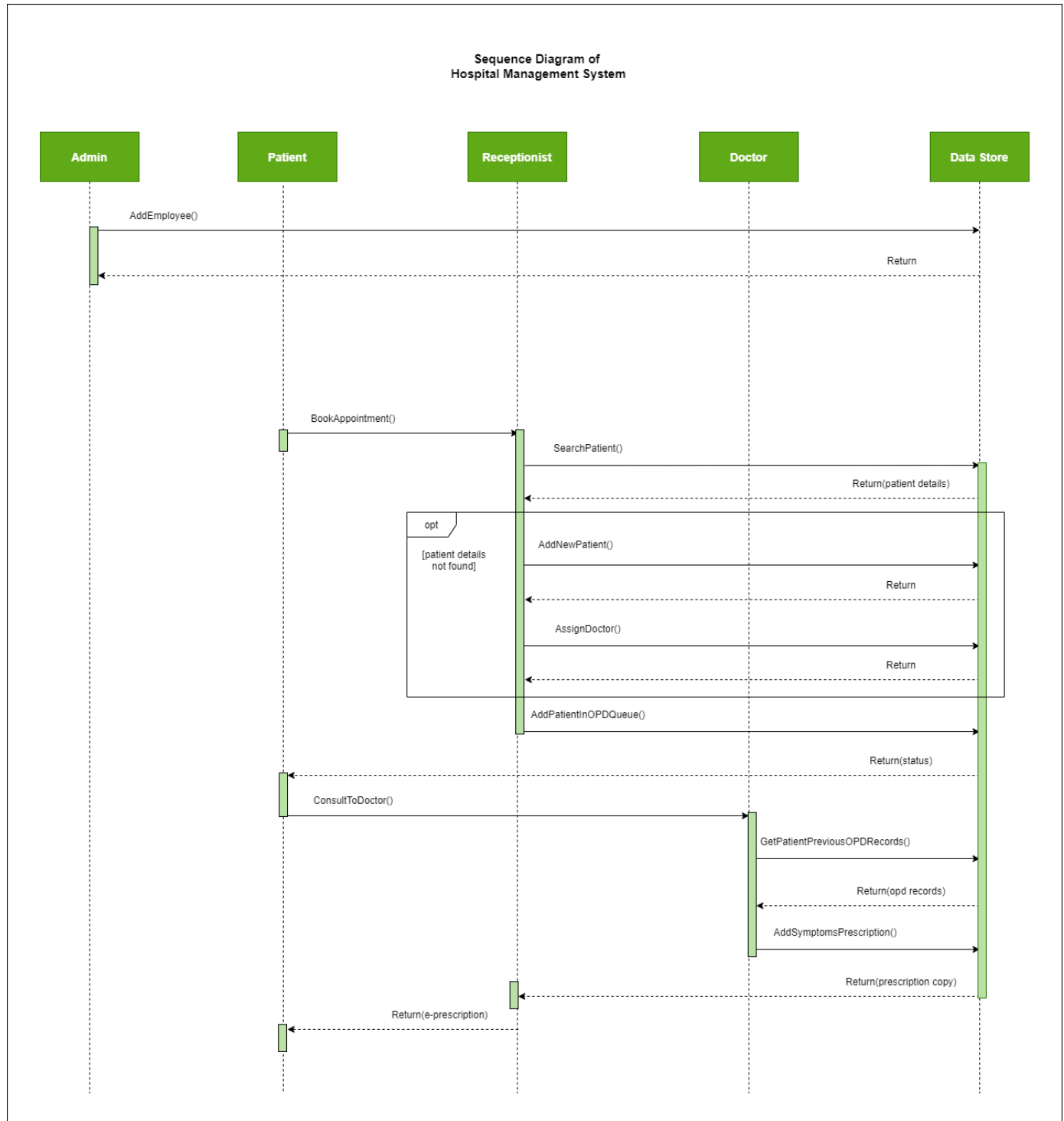
Activity Diagram:



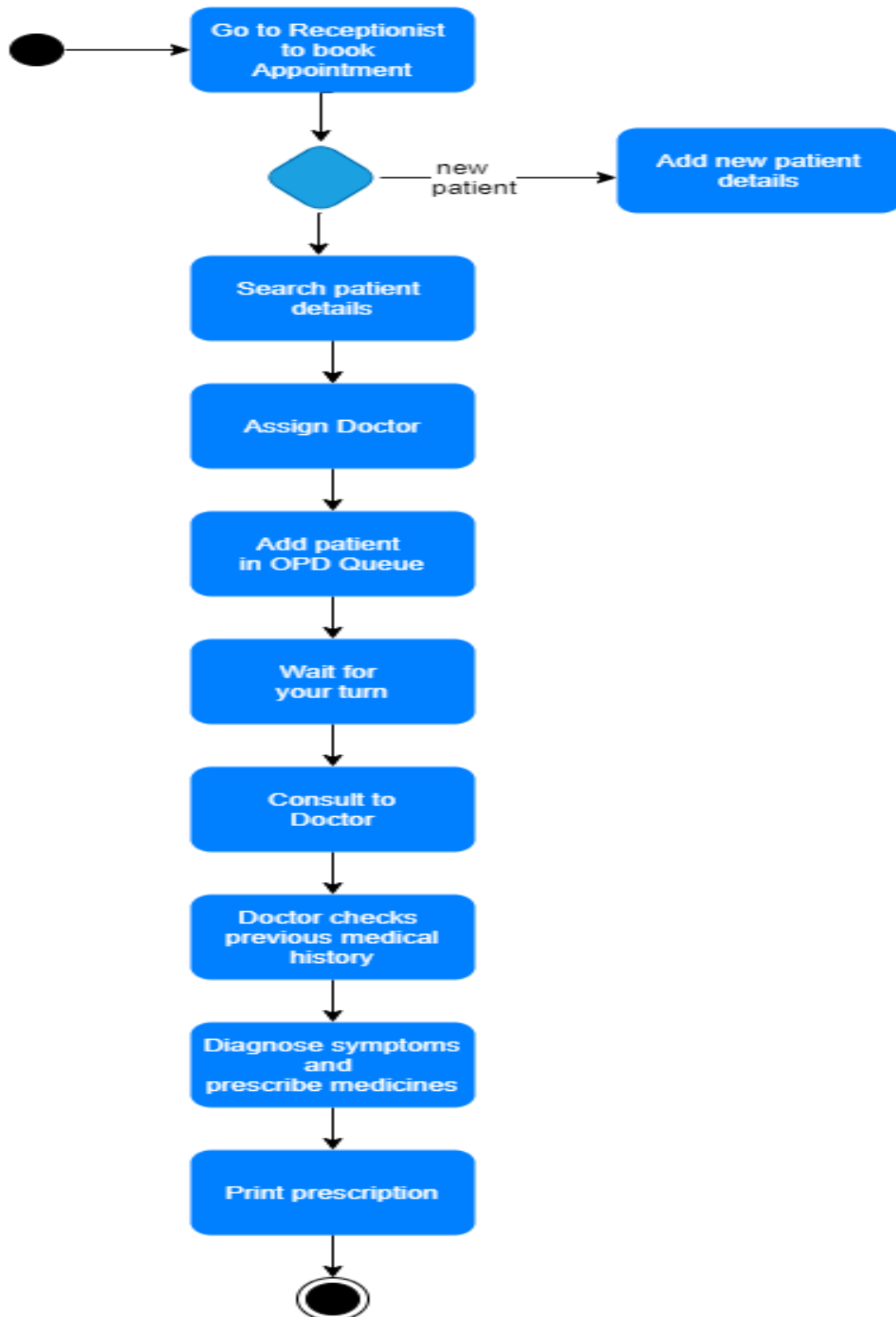
3.Class Diagram:



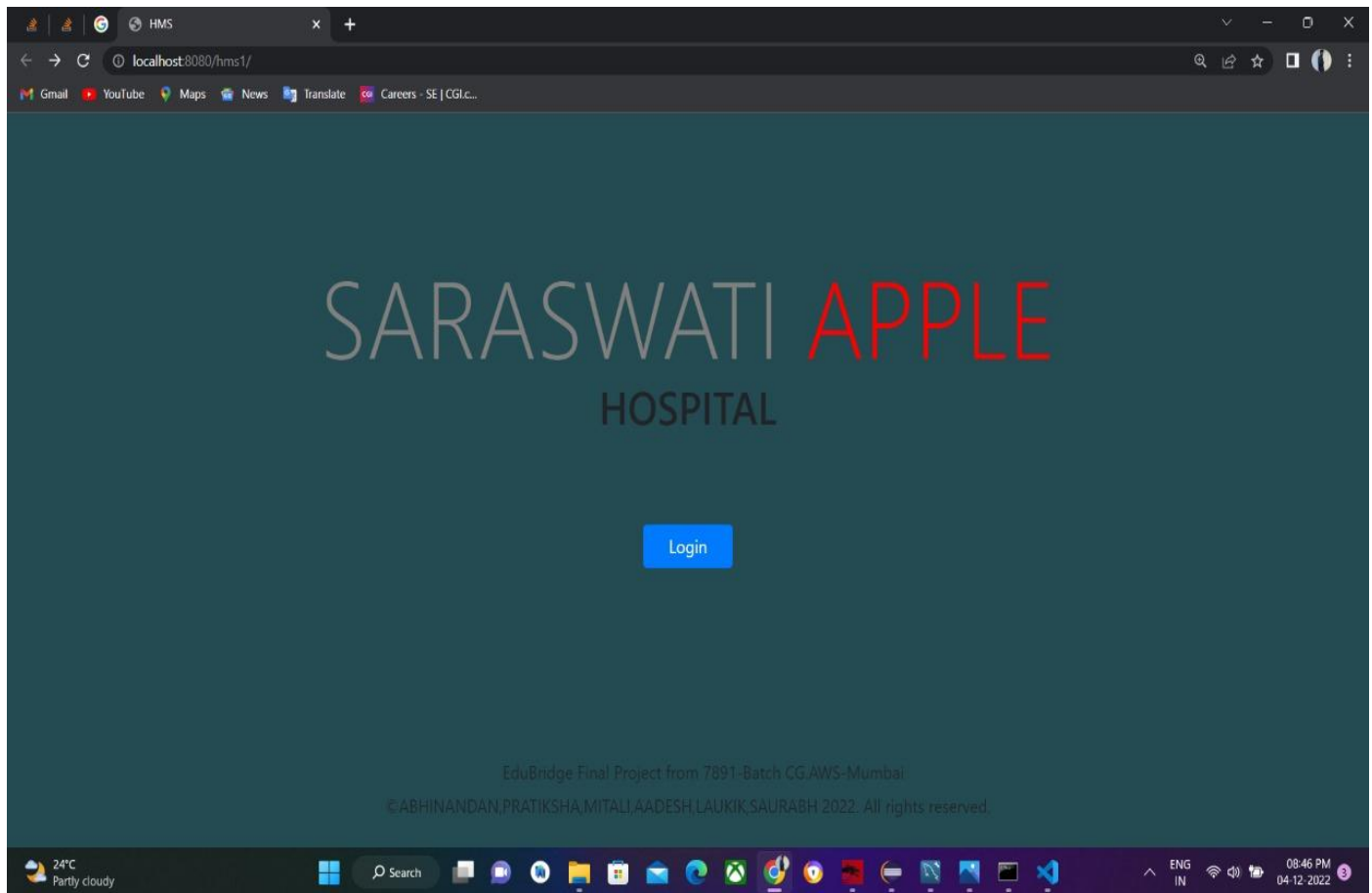
4. Sequence Diagram:



5.State Diagram:



Form Design:



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localhost:8080/hms1/login.html

Gmail YouTube Maps News Translate Careers - SE | CGLC...

Sign In

Please fill in this form to access your account!

Role

Administrator

Username

adminabhi

Password

Submit Clear

Want Help?

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Search

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Saraswati Apple Hospital, Kolhapur

Log Out

ADMINISTRATOR

Username: adminabhi

Id: EMP100

[edit...](#)

Add Employee

Search Employee

All Employees

Welcome adminabhi ! Let's Get Started !

Doctors	Patients	Employees	OPD Fees
1	1	1	Rs.200

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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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Saraswati Apple Hospital, Kolhapur Log Out

ADMINISTRATOR

Username: adminabhi

Id: EMP100

[edit...](#)

Add Employee

> Search Employee

All Employees

Search Existing Employee

By Name

Firstname

first name

Lastname

last name

Submit

By Id

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Saraswati Apple Hospital, Kolhapur

Log Out

ADMINISTRATOR

Username: adminabhi

Id: EMP100

edit...

Add Employee

Search Employee

> All Employees

All Employees

Id	Name	Role	Action
EMP101	Rajesh Kuber Madnaik	doctor	<div>View</div>

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Saraswati Apple Hospital, Kolhapur

Log Out

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	drrajeshmadnaik@gmail.com
Mobile number	9013456893
Adhar number	143590034912
Country	india
State	maharashtra

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Saraswati Apple Hospital, Kolhapur

Log Out

DOCTOR

Username: Emp101

Id: EMP101

edit...

Personal Info

OPD Queue

Search Patient

Patient General Info

History

Observations

Prescription

Welcome Emp101 !

Let's Get Started !

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Saraswati Apple Hospital, Kolhapur

Log Out

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

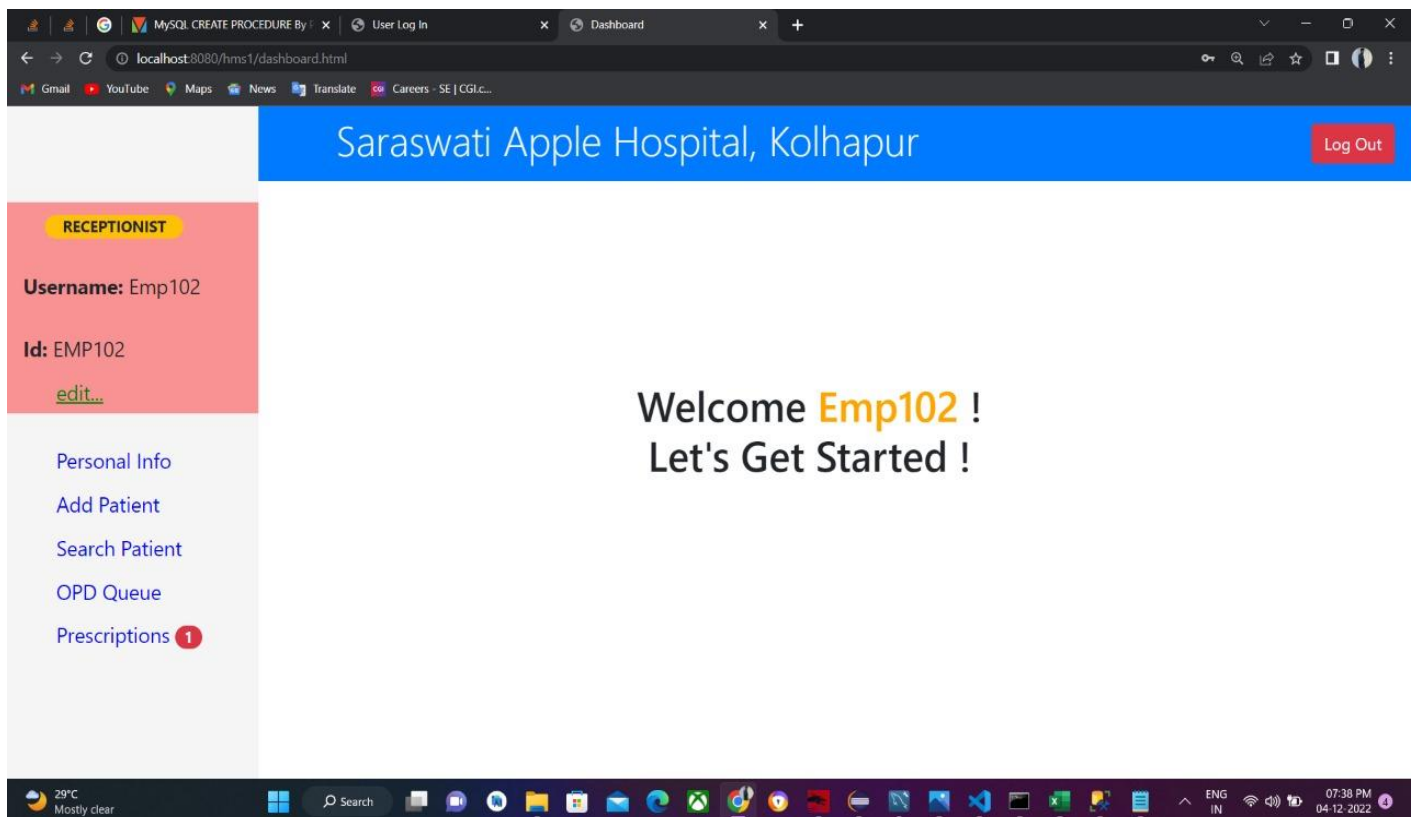
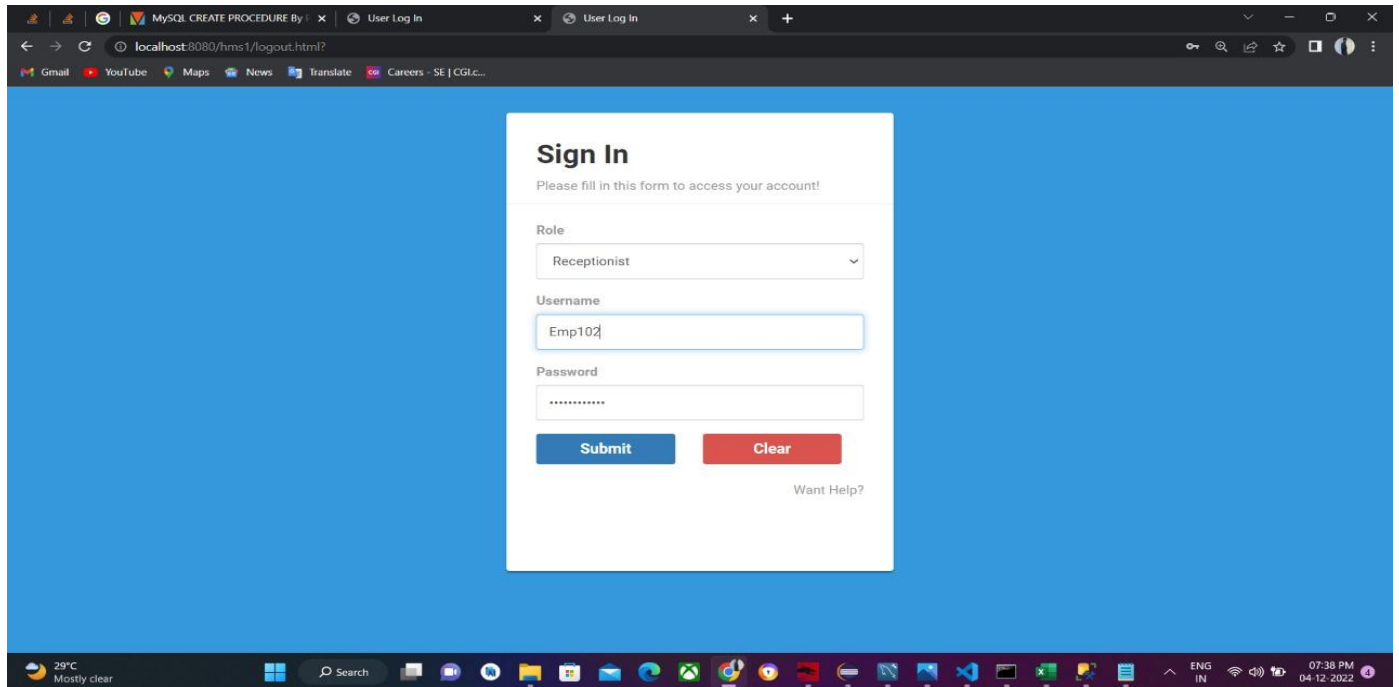
By Id

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User Log In

Dashboard

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localhost:8080/hms1/personalinfo.html

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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

Personal Details

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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Saraswati Apple Hospital, Kolhapur

Log Out

RECEPTIONIST

Username: Emp102

Id: EMP102

edit...

Personal Info

> Add Patient

Search Patient

OPD Queue

Prescriptions 1

Add New Patient

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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Log Out

RECEPTIONIST

Username: Emp102

Id: EMP102

edit...

Personal Info

Add Patient

Search Patient

OPD Queue

> Prescriptions 1

Patient Id

Patient Name

Prescription

Action

P101

Ashlesha Atul Narkhede

Print

Cancel

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04-12-2022

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User Log In

Insert title here

localhost:8080/hms1/printPrescription.html

Gmail YouTube Maps

SARASWATI APPLE HOSPITAL

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

Name: Ashlesha Atul Narkhede 1

Rx

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

Do's: - drink warm water

Don'ts: - junk food

Investigations: none

Follow up Date: 2022-12-04

Fees: 200

*For other charges please read below of same contents as per choice of patients, no complaint of particular brand.

Our Center:
1. Saraswati Apple Hospital, Dabholkar Corner, Kolhapur, Maharashtra 416001 (2. D.Y. Patil Multiple Specialty Hospital, Kadarnadi,
Kolhapur, Maharashtra 416001)
Mobile No. 9864787571 | Phone No. 0231-2575151 | E-mail: dr.rajeshmadhwal@gmail.com

Print

1 page

Destination: Save as PDF

Pages: All

Pages per sheet: 1

Margins: Default

Options: ☒ Headers and footers
☐ Background graphics

Save Cancel

Fees: 200

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04-12-2022

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    |       |
| mobileno    | 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    |       |
+-----+
```

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	

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Sunny



Search



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	
mobilen	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>

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Sunny



Search



Benefits of Hospital Management System:

1. Make prescription readable and understandable to patients.
2. Eliminate redundancy in terms of data storage. Data will be stored in a computer not a heap of files.
3. Reduce the time wastage in retrieving data especially in finding past health records.
4. Increase Efficiency and Interactivity in any area of specialization in the hospital.
5. Able to quickly collect and edit data, summarize results 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