

A hand is holding a light-colored wooden block with a teal cross symbol. Below it, several other wooden blocks are visible, each with a different medical icon: a brain in a head profile, two red blood cells, a test tube, two syringes, and a chemical structure. The background is a blurred image of a person in a white lab coat.

# Hospital Management System

Health is Important, Realize Without Health You Can't Do Anything

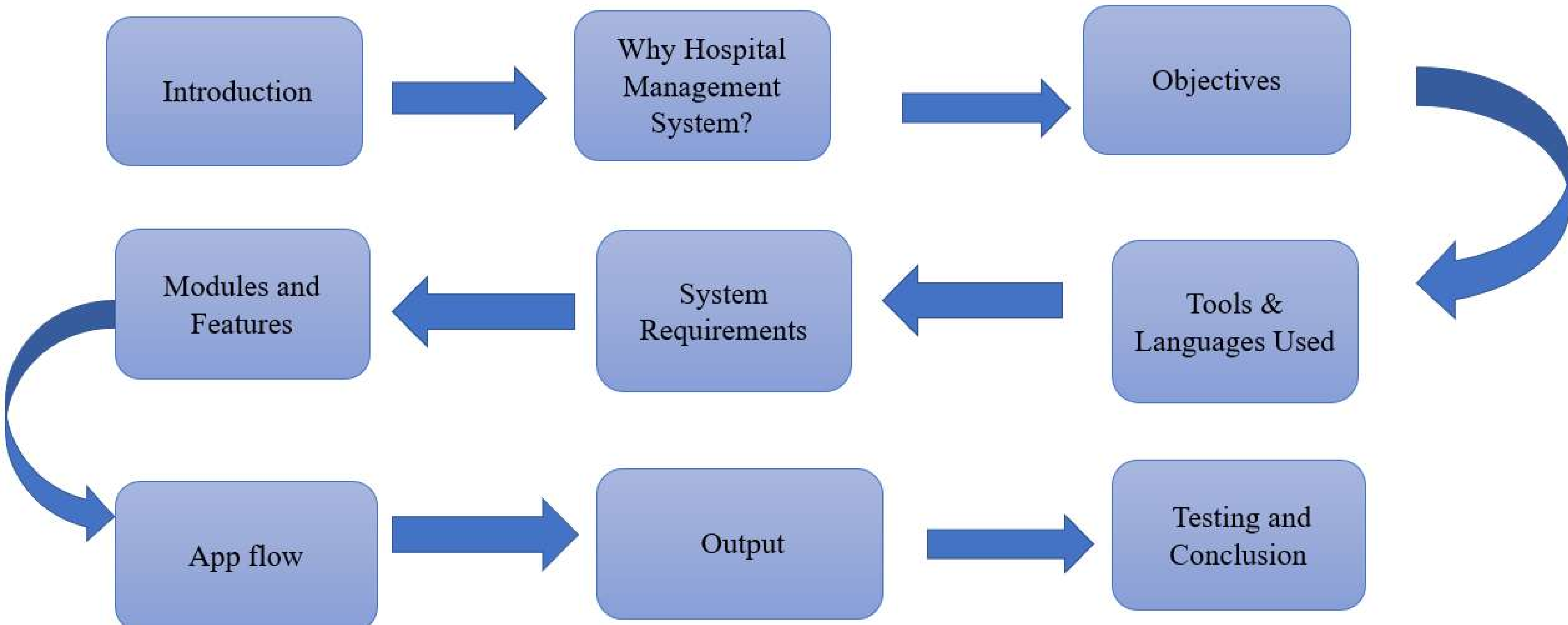
By group-1

# *Group-1*



- ▶ Abhinav Kumar -2567890
- ▶ Adabala Surya Pavan -2567360
- ▶ Aishwarya Tenginakai -2567801
- ▶ Akanksha Kirola -2568393
- ▶ Akula Keerthi -2566784
- ▶ Arindam Mukherjee -2566949
- ▶ Arram Srija -2569151
- ▶ Bejjanki Archana -2567606

# Contents





# Introduction



The purpose of the project entitled as “HOSPITAL MANAGEMENT SYSTEM” is to computerize the Front Office Management of Hospital to develop software which is user friendly, simple, fast, and cost – effective. It deals with the collection of patient’s information, diagnosis details, etc.

---

t



**It is accessible by an administrator. The data can be retrieved easily. The interface is very user-friendly.**

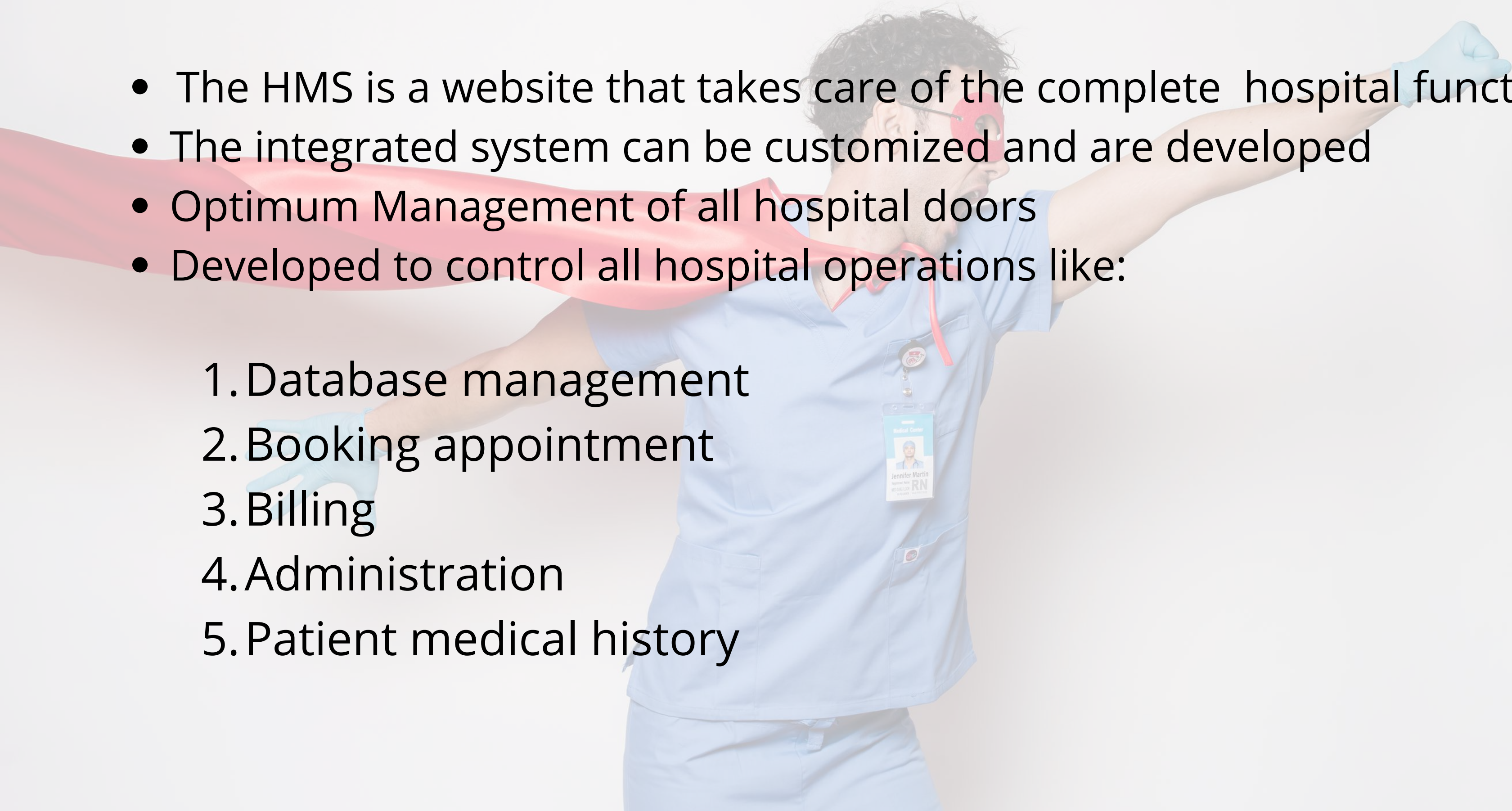


**Hospital Management System is a system enabling hospitals to manage information and data related to all aspects of healthcare**



# Why Hospital Management System?

- The HMS is a website that takes care of the complete hospital functionalities
- The integrated system can be customized and are developed
- Optimum Management of all hospital doors
- Developed to control all hospital operations like:
  1. Database management
  2. Booking appointment
  3. Billing
  4. Administration
  5. Patient medical history



# OBJECTIVES

- To computerize all the details regarding patient and doctor
- Scheduling the appointment of patient with doctors to make it convenient for both
- Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work
- Design a system for better patient care
- Reduce hospital operating costs



# Tools And Languages

## Front End

- Angular
- Html
- CSS
- Angular material
- BOOTSTRAP



## Back End

- MySQL
- Spring Boot
- Hibernate
- Postman (Testing)

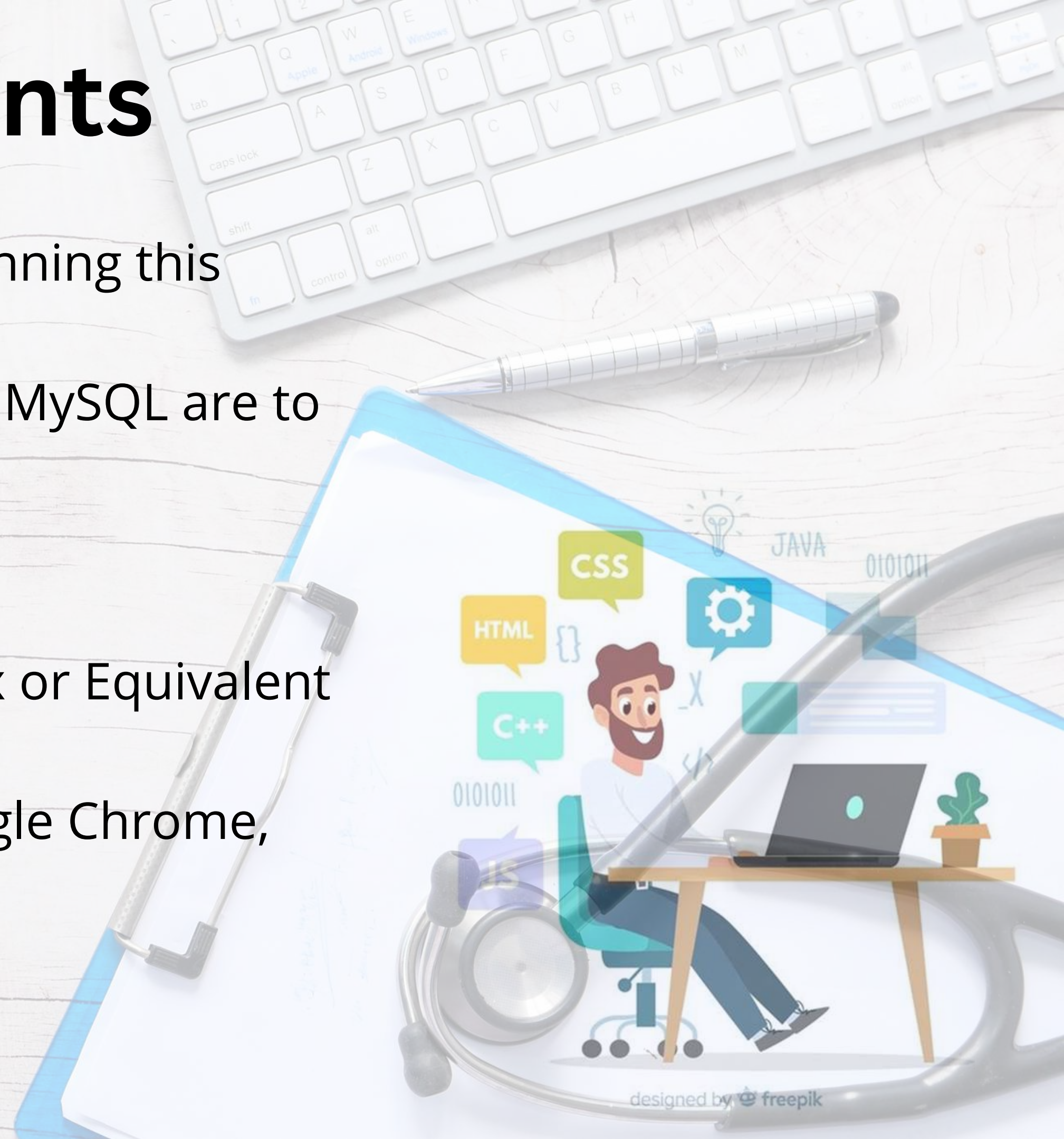




# System Requirements

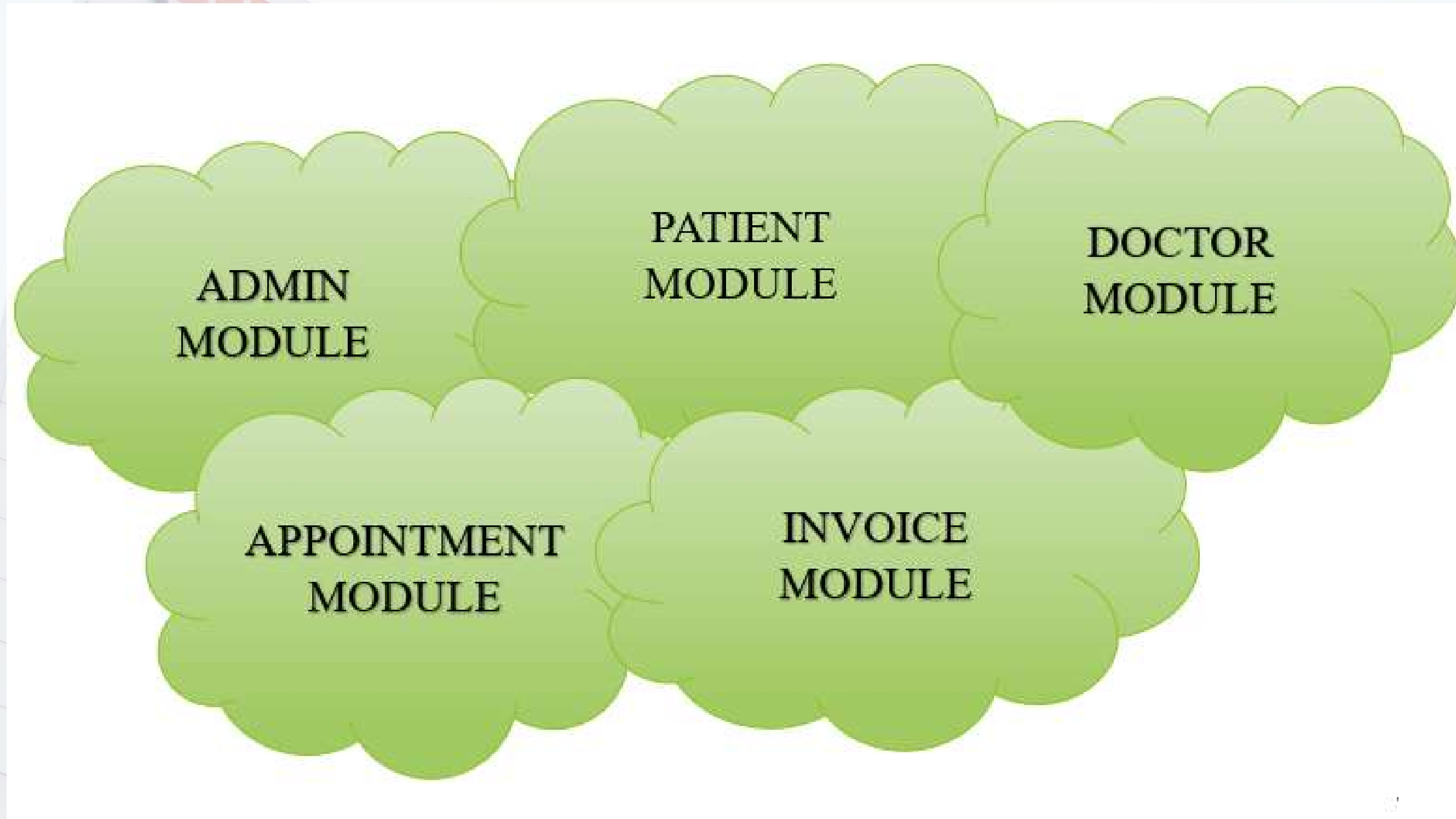
The Basic System Requirements for Running this project are listed below:

- Visual studio, Eclipse, Postman and MySQL are to be installed to the system
- 1 GB Random Access Memory
- 200 MB of Free Space on Hard Disk
- Microsoft Windows 8,10,11 or Linux or Equivalent OS
- Web Browser (Microsoft Edge, Google Chrome, Firefox)





# Modules Of Hospital Management System







# Features Available

## Home

- Header
- Patient registration
- Login
- Apply for job
- Logout

## Admin

- Login
- Doctor and Patient List
- Appointment
- Invoice

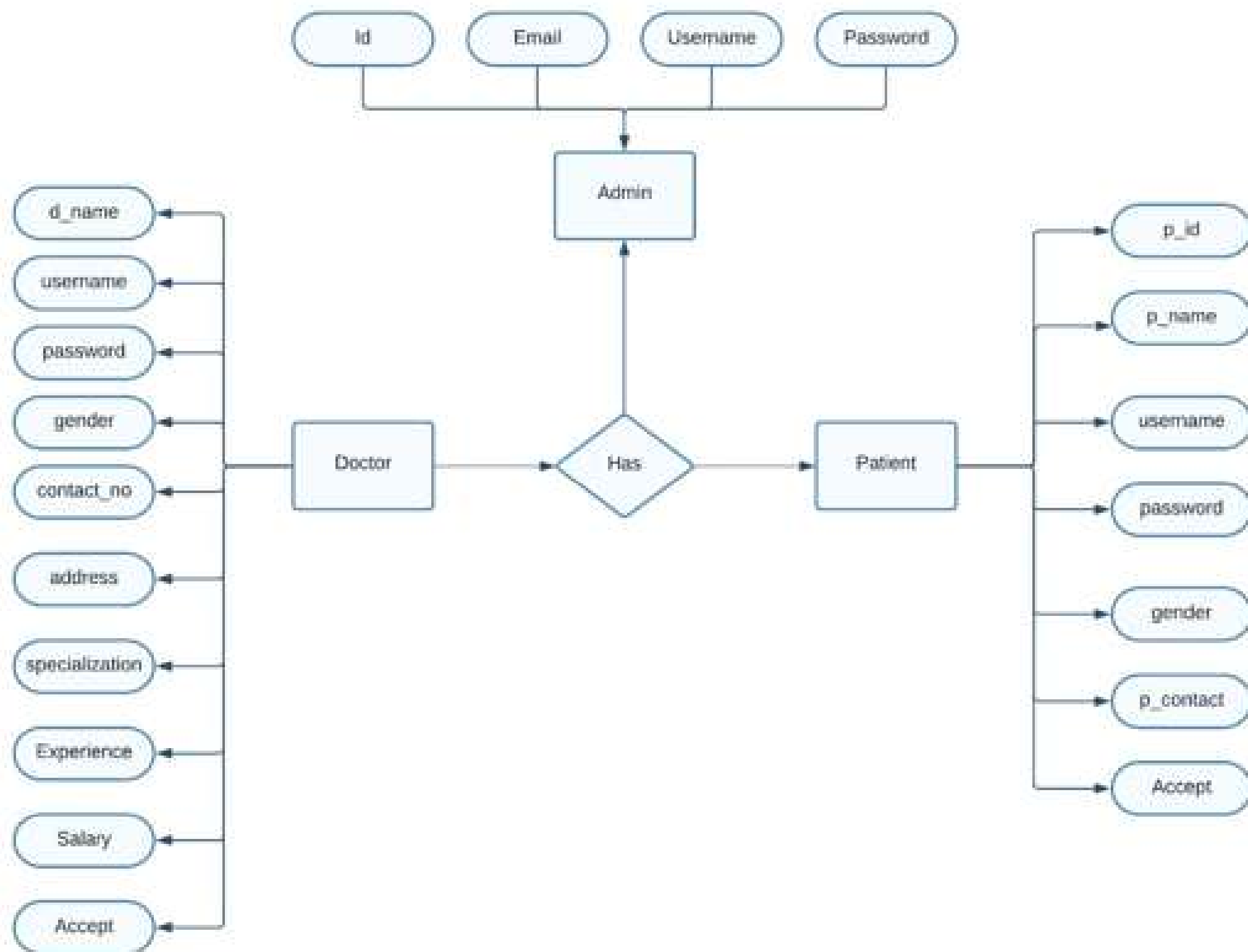
## Doctor

- Login
- Create Doctor Account
- Patient List
- Appointment
- Patient Discharge

## Patient

- Login
- Book an appointment
- Invoice

# App Flow







Life Line Hospital

# Medical Care

YOUR HEALTH  
IS OUR PRIORITY

Lorem ipsum dolor sit amet, consectetur adipiscing  
elit. Cras interdum mattis nisi vitae elementum.

CONTACT US

+123-456-7890



## Registration form

Name

Age

Qualifications

Contact Number

Submit



## Patient Registration form

First Name

Last Name

Email ID

DOB

Phone Number

Gender

Complaint





## Login

abhinav

.....

Role

Login



Welcome abhinav!

Doctor details

Patient details

Appointment details

Invoice details

Job Applications

[Back to Home](#)



Doctor Details

 [New Doctor](#)

Name	Age	Gender	Blood Group	Department	Phone	Email	Status	Address	Room	Actions		
Dr Sk Goel	30	Male	A+	Heart	08888888888	goel@gmail.com	Available	Sitamarhi	108	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
Gaurav	35	male	ab+	md	8808114788	gaurav@gmail.com	active	bheski	12	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
Himanshu	36	male	a+	mbbs	7217873350	hims@gmail.com	active	delhi	11	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>

[Back to Dashboard](#)



## Register Doctor

Doctor Name

Age

Gender

Blood Group

Department

Phone

Email



Patient Details

	DOB	PHONE	GENDER	DISEASE	ROOM	ADDRESS	STATUS	Actions		
	27/04/1999	08709846155	Male	No	1	Sitamarhi	Released	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
	29/11/2000	8808114788	male	Fever	24	Gurugram		<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
asis.com	27/04/1999	08709846155	hh	wxecdvfghjkjmhjngbfdv csx	555	Sitamarhi	Na	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
asis.com	tfyguh	08709846155	hh	xdfcgvhbjn	rdtfyguh	Sitamarhi	Admitted	<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>
	27/04/1999	02102000	Male	gvhbjn	108	Sheohar		<a href="#">Update</a>	<a href="#">View</a>	<a href="#">Delete</a>

[Back to Dashboard](#)



## Appointment List

Welcome to the Appointment list page.

ID	Patient's Name	Symptoms	Status	Mobile Number	Actions
1	Ram	Rash	Approved		<a href="#">Reject</a>
2	shyam	shakingchills	Approved		<a href="#">Reject</a>
3	John Doe	Fever and Headache	Approved	1234567890	<a href="#">Reject</a>
4	Deependra Bahadur Singh	Heart	Rejected	08709846155	<a href="#">Approve</a>
5	Srija	Fevr	Approved	87525684125	<a href="#">Reject</a>

[Back to Dashboard](#)



Invoice Details

 [New Invoice](#)

id	Admit Date	Release Date	Patient Name	Patient Mobile	Patient Address	Complaint	Room Charge	Doctor Fee	Medicine Cost	Other Charge
0	01/02/2023	10/02/2023	Abhianv	08888888888	House Number 425	n h	500	785210	852	7521
1	01/02/2023	10/02/2023	Abhianv	87525684125	Road no. 3, Ward 4	Heart	500	5210	JNK	4845
2	12/08/2023	12/09/2023	abhinav	88888888888	smi	Heart	500	500	500	500
3	12/08/2023	12/09/2023	abhinav	88888888888	smi	Heart	500	500	500	500
15	01/02/2023	10/02/2023	Abhianv	02102000	Sheohar	No	500	500	500	500
2015	01/02/2023	10/02/2023	Abhianv	08888888888	House Number 425	nose	1000	1000	1000	1000



## Invoice Entry

id

Release Date

Admit Date

Patient Name

Patient Mobile

Patient Address

Disease



# Job Applications

Applicant's Name	Age	Qualification	Phone Number	Actions
Abhinav Kumar	25	MBBS	08709846155	<a href="#">Approve</a> <a href="#">Reject</a>

[Back to Dashboard](#)



Welcome drabhinav!

[Patient details](#)

[Appointment details](#)

[Back to Home](#)



Patient Data

	DOB	PHONE	GENDER	DISEASE	ROOM	ADDRESS	STATUS	Actions	
gmail.com	27/04/1999	08709846155	Male	No	1	Sitamarhi	Released	Update	View
il.com	29/11/2000	8808114788	male	Fever	24	Gurugram		Update	View
mar3@mphasis.com	27/04/1999	08709846155	hh	wxecdvfghjkjmhjngbfdv CSX	555	Sitamarhi	Na	Update	View
mar3@mphasis.com	tfyguh	08709846155	hh	xdfcgvhbjn	rdtfyguh	Sitamarhi	Admitted	Update	View
il.com	27/04/1999	02102000	Male	gvhbjn	108	Sheohar		Update	View



# Appointment List

Welcome to the Appointment list page.

ID	Patient's Name	Symptoms	Status	Mobile Number	Actions
1	Ram	Rash	Approved		<button>Reject</button>
2	shyam	shakingchills	Approved		<button>Reject</button>
3	John Doe	Fever and Headache	Approved	1234567890	<button>Reject</button>
4	Deependra Bahadur Singh	Heart	Rejected	08709846155	<button>Approve</button>
5	Srija	Fevr	Approved	87525684125	<button>Reject</button>

Back to Dashboard



Welcome Pabhinav!

Admit Form

Book Appointments

Invoice Details

Back to home



## Patient Registration form

First Name

Last Name

Email ID

DOB

Phone Number

Gender

Complaint



## Book Appointments

Patient's Name

Symptoms

Mobile number

Book Appointment



# Invoice Details

Enter Invoice Reference ID

Search

## Invoice Detail

Invoice Reference ID

1645

Admit Date

10/02/2023

Complaints

Fever

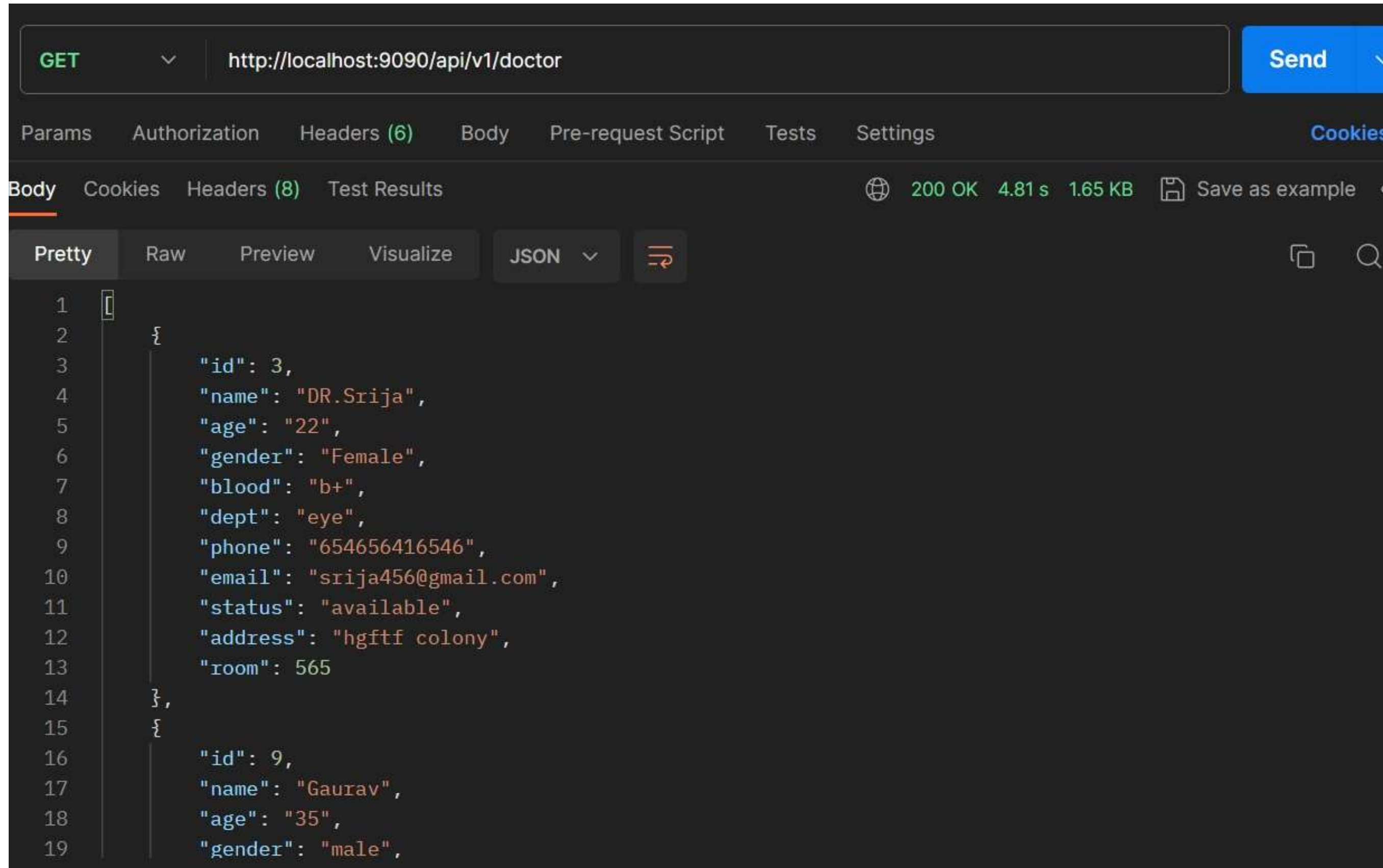
Doctor Fee

1500

Medicine Cost

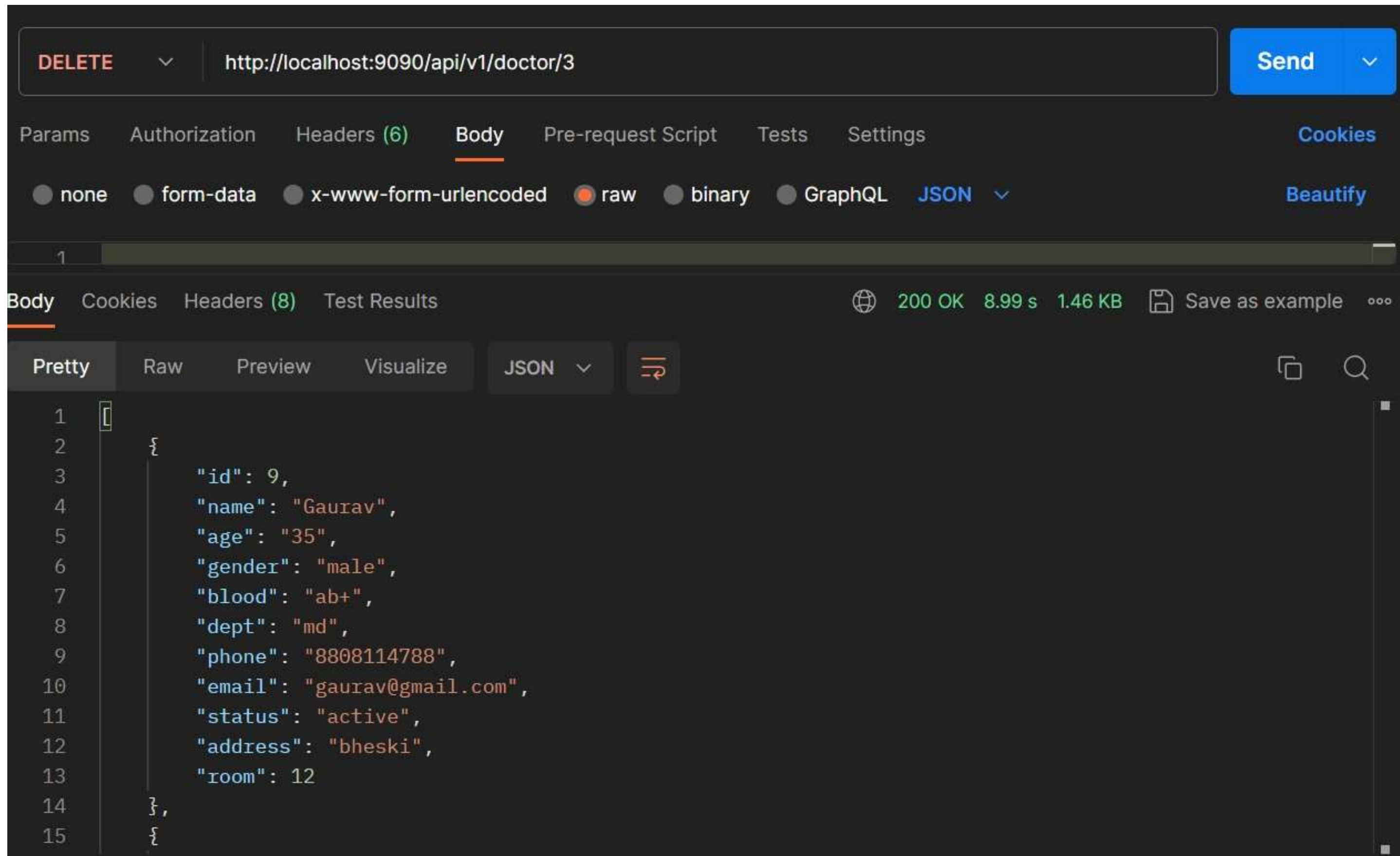


# Functional Testing





# Functional Testing





# Junit Testing

```
29     private InvoiceRepository invoiceRepository;  
30  
31     @GetMapping("/invoice")  
32     public List<Invoice> getAllInvoices() {  
33         return invoiceRepository.findAll();  
34     }  
35  
36     @PostMapping("/invoice")  
37     public Invoice createInvoice(@RequestBody Invoice invoice) {  
38         return invoiceRepository.save(invoice);  
39     }  
40
```

Outline ×

- com.ehospital.controller
  - InvoiceController
    - invoiceRepository : InvoiceRepository
    - getAllInvoices() : List<Invoice>
    - createInvoice(Invoice) : Invoice
    - getInvoiceById(int) : ResponseEntity<Inv

Problems Javadoc Declaration Search Console Progress JUnit ×

Finished after 15.298 seconds

Runs: 7/7 Errors: 0 Failures: 0

✓ HospitalManagementBackEnd1ApplicationTests [Runner: JUnit 5] (0.909 s)

Failure Trace

- ✓ addApplication() (0.708 s)
- ✓ addUser() (0.047 s)
- ✓ addAppointment() (0.047 s)
- ✓ addInvoice() (0.024 s)
- ✓ adddoctor() (0.035 s)
- ✓ addPatient() (0.019 s)
- ✓ updatePatient() (0.014 s)

1ApplicationTests.java

notations

15



# Advantage & Disadvantages

## Advantages:

- User friendly service
- We can maintain the digital medical records
- less time consumption
- Patient self-service
- Avoid errors and track every single details

## Disadvantages:

- It will affect the Employment of staffs working in administration





# Conclusion

- Hospital management systems allows us the ability to optimize and digitize all the processes within the institution
- It will help to improve customer service, reduce process costs, streamline the search of medical records, bills, patients, doctors, etc
- Hospital Management System will contributed enormously to better health and influenced the lives and well-being of billions of humans







# Thank You For Entrusting Your Work To Our Hospital

Health is a state of physical, mental, and social well-being that enables everyone to live productively.