Hospital Management System

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Introduction

- This project will automate the daily operations of LIFE-LIINE hospital. The project keeps track of the staff and patient (inpatient, out-patient) details.
- ☐ HOSPITAL MANAGEMENT is an integrated Hospital Information System which address all the major functional areas of multi-specialty hospital.
- □ It also take care of the ward ,medical,invoice and the doctor's appointment details.
- ☐ The Hospital Management enables better patient care, patient safety, patient confidentially, efficiency, reduced cost and better management information system.

It provides easy access to critical information thus enabling the management to take better decision on time. The project deals with processing of each and every department in the hospital. ☐ The details of Doctor and staff help the hospital to maintain the record of every person. The main aim of our project is to provide a paper less hospital up to 90%. It also aims at providing low-cost reliable automation of the existing systems.

Objective

- ☐ The project "Hospital management system is aimed to develop to maintain the day -to-day state of admission/discharge of patients, list of doctors, reports generation, and etc.
- It is designed to achieve the following objectives-
- 1. To computerize all details regarding patient and hospital details.
- 2. Scheduling the appointment of patient with doctors to make it convenient for both.

- 3.Scheduling the service of specialized doctors and emergency properly so that facilities provided by hospital are fully utilized in effective and efficient manner.
- 4.If the medical store issues medicines to patients, it should reduce the stock status of the medical store and vice versa.
- 5.The information of the patients should be kept upto date and there record should be kept in the system for historical purpose.

Software & hardware used

Software Requirements

Operating System : Windows 7 or Windows 10

- Language : Java

IDE : Spring Boot,PostMan

Backend : Microsoft MySQL server

Hardware Requirements

- CPU : Intel i3 processor

- RAM : 512 MB or above

- Hard Disk : 2 GB hard disk space or minimum

Back-End

- Core Java
- > Spring Boot
- **≻**Spring Data JPA
- > Hibernate
- Spring Boot Web
- MySQL Database
- > Thymeleaf
- > JUnit

Proposed System

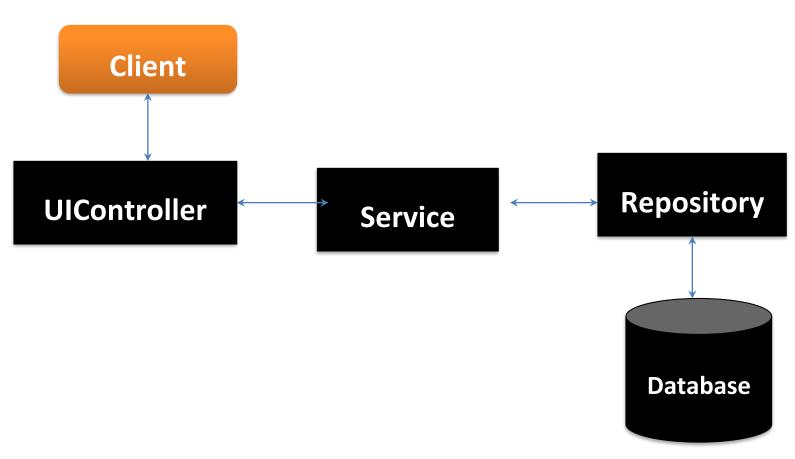
- □ First we have to run the Application on the browser, the index page will be shown after that if the user is registered then he/she can login the page and he/she can entering in the application.
- ☐ If the user is not registered then he/she needs to register themselves and then he/she can continuing to login and he/she can access any time.
- After that related pages will be there like if user is admin so he/she can access all the operations like insert, delete, update and search the details.
- ☐ If the user is customer then he/she can view the related record and he/she can update the record.
- And after that he/she can logged out by themselves.

About Back-end:

- There are mainly four operations will be performed by the user and admin Ex. Insert, update, retrieve/fetch, delete.
- These operation will be performed using the spring boot framework, core java and spring boot web, spring data Jpa, and hibernate.
- And thymeleaf is the design pattern for the user interface.
- □ For connectivity purpose we are using MySQL database. It is connected to the java and database.

Working Of Back-End

☐ There are mainly three stages —

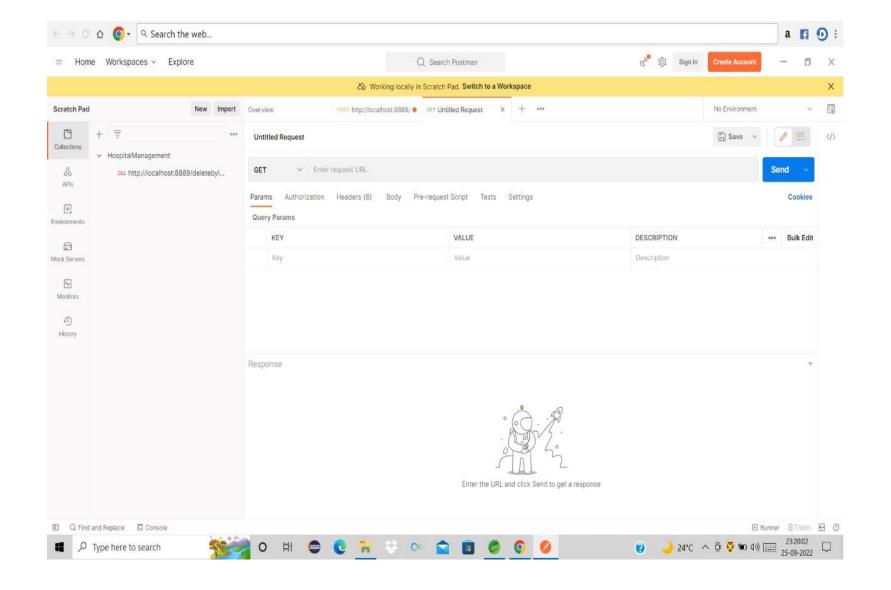


- ☐ UIController In Spring Boot, the UIController class is responsible for processing incoming requests, preparing a model, and returning the view to be rendered as a response.
- Service Components are the class file which contains @Service annotation. These class files are used to write business logic in a different layer.
- Repository Repository is a specialization of @Component annotation which is used to indicate that the class provides the mechanism for storage, retrieval, update, delete and search operation on objects.
- ☐ Repository is directly connected with the database and then it can return to the repository and response to the service

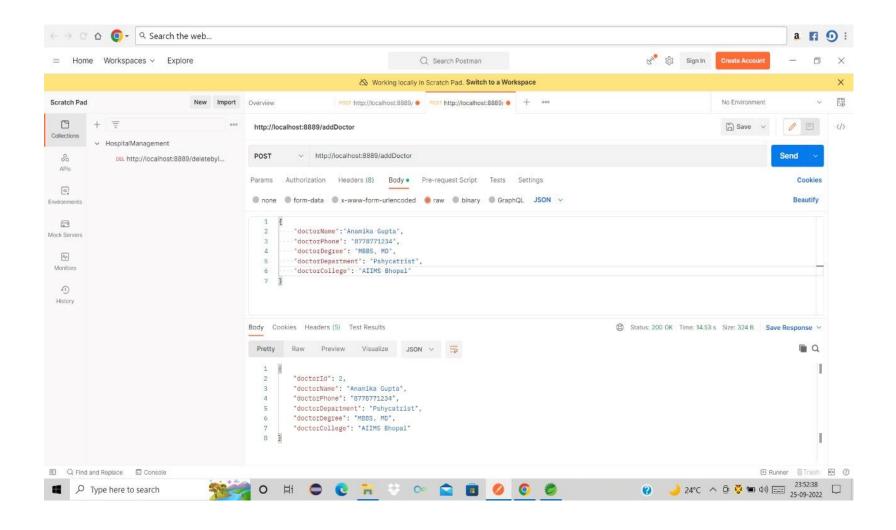
and it can return to the controller and then response send to the client.

Snapshots

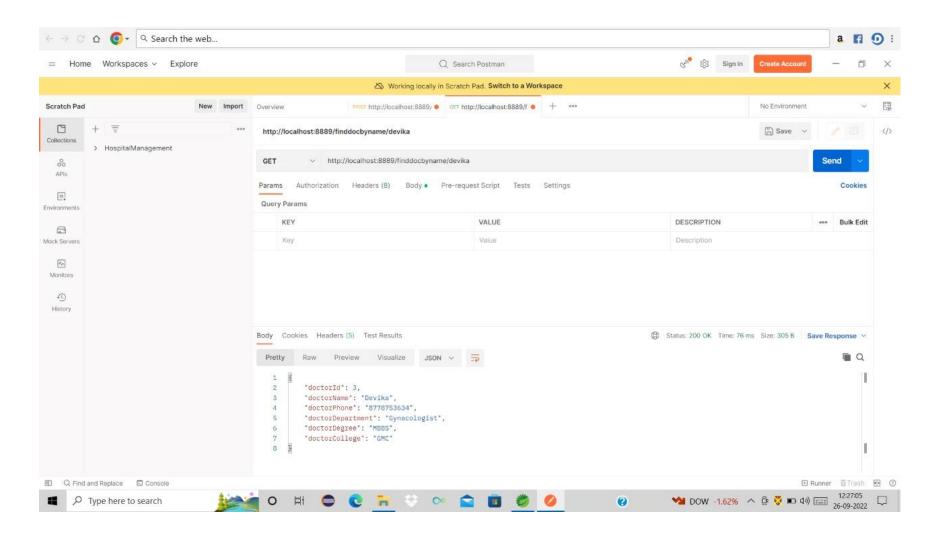
Log in page



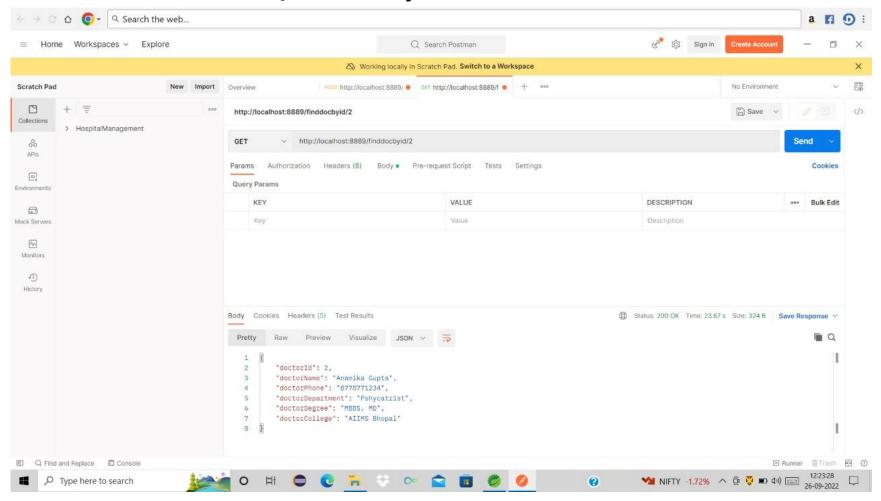
2.Inserting doctor(/addDoctor)



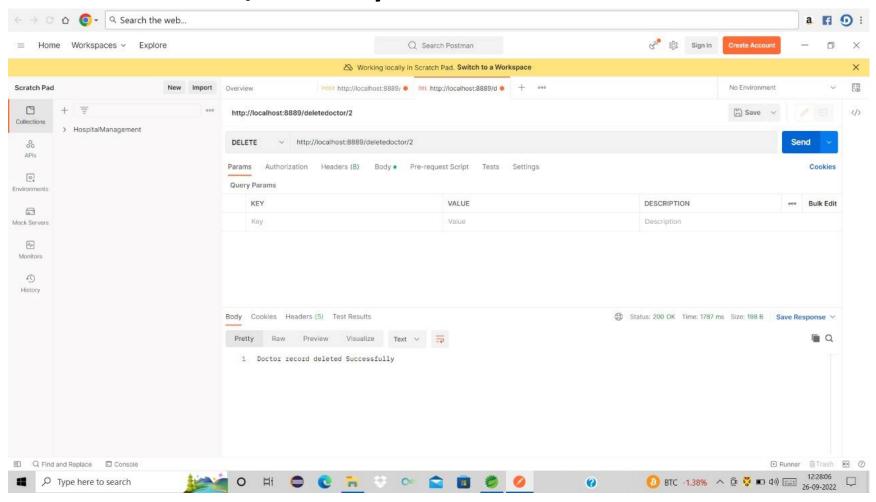
3.Get record:/ finddocbyname



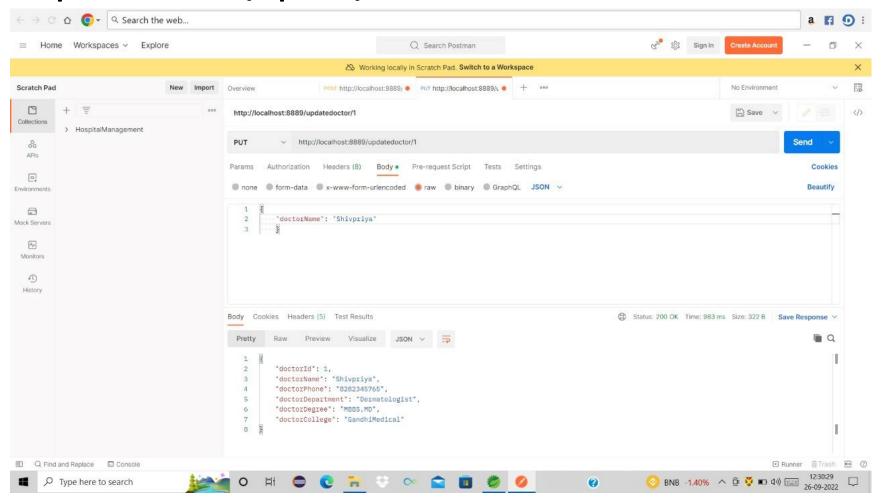
4.find doctor: /Doctorbyid



5. Delete doctor: /doctor by id



6.Update Doctor:/update/doctor



Advantages

- **□**Advantages:
 - Duplication of the hospital data is avoided.
 - > Avoid errors and track every single detail.

Conclusion

- ☐ Effectiveness, efficiency, and reliability are the key aspects that make this web-based Hospital management system.
- ☐ The proposed project is very flexible to handle new modules and features as per user requirements in future.
- Well tuned Hospital Management System involves lots of important decision that should be made in the most efficient an quick way.