

HOSPITAL MANAGEMENT SYSTEM

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Project Briefing

- This application allows patients and doctors to check and save their appointments.
- This application also allows patients and doctors to view and save the prescriptions.
- The above actions can be done by using their username and password with the provided.
- For instance :patient can see doctor appointments ,similarly patient appointments.
- The are all under security parameters by nooping the password

Doctor service

- Doctor service can be done by the doctor can access his /her appointments by providing doctor's name as parameter.
- Doctor can also save the appointments.
- For instance :id the doctor wants to get all the appointments with his/her name as a parameter to get data.





Prescription service

- In the Prescription service a doctor and patient can access prescriptions by providing patient name as parameter.
- Patient and doctor can also save the prescriptions.
- For ex: if the patient wants to get all the prescription with his/her name.
- He/she can access the prescriptions with his/her name as a parameter and get the data.

Patient access

- Through this patient can access his/her appointment by providing patient name as parameter.
- Patient can also save appointments,
- For ex: If a patient wants to get all the appointments by providing his/her name as parameter to get the data.



Tools and Technologies

- Apache maven
- MongoDB
- Docker
- Java
- SpringBoot
- Swagger API
- Mockito
- Tomcat



Springboot

- Java Spring Boot (Spring Boot) is a tool that makes developing web application and microservices with Spring Framework faster and easier through three core capabilities:
- Autoconfiguration
- An opinionated approach to configuration
- The ability to create standalone applications



MavenTM

Maven

- **Maven** is a build automation tool used primarily for Java projects. Maven can also be used to build and manage projects written in C#, Ruby, Scala, and other languages. The Maven project is hosted by the Apache Software Foundation, where it was formerly part of the Jakarta Project.

Docker

- Docker is an opensource platform that enables developers to build, deploy, run, update and manage *containers*—standardized, executable components that combine application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.



Swagger

Swagger is a set of opensource tools for writing REST-based APIs. It simplifies the process of writing APIs by notches, specifying the standards & providing the tools required to write beautiful, safe, performant & scalable APIs.

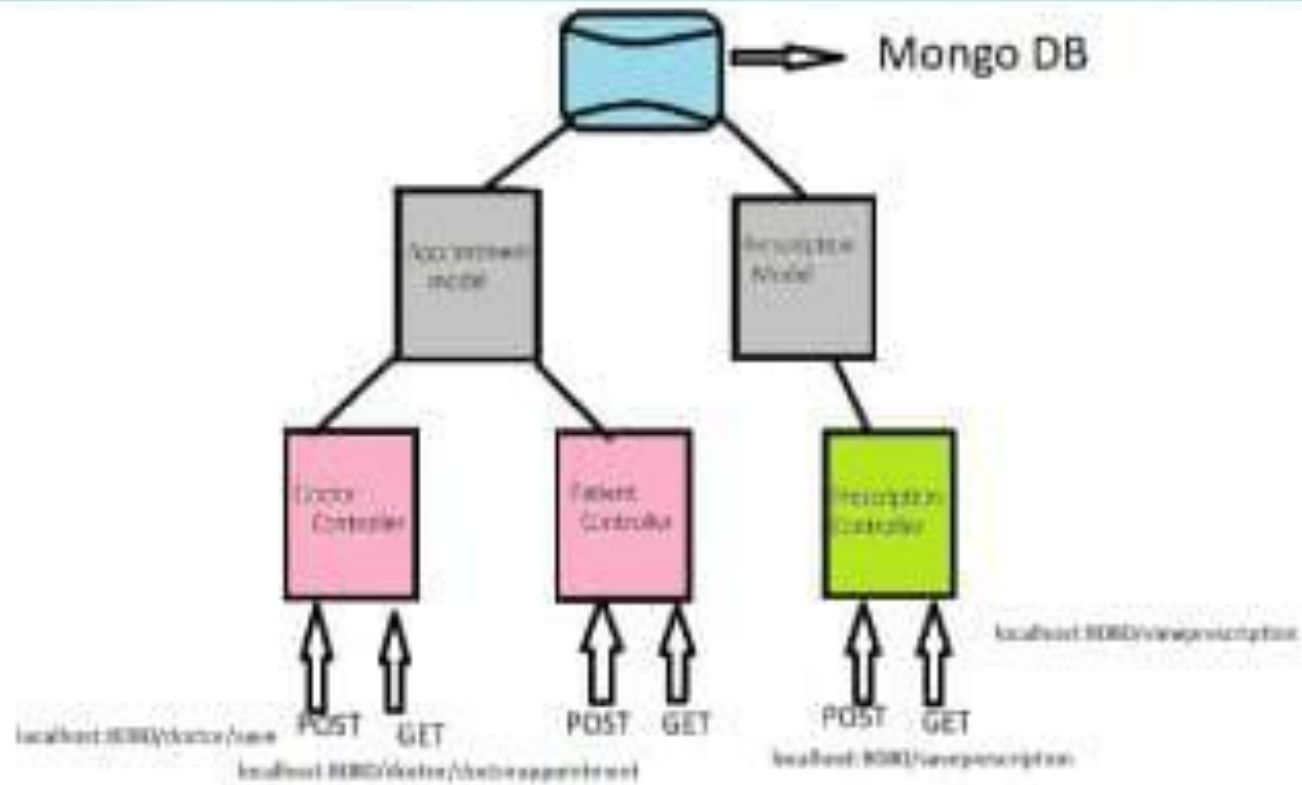


MongoDB

- MongoDB stores data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time



Architecture



Use cases:

- Managing appointments
- Manage prescriptions
- Manage patients and doctors appointments
- Add patients and doctors
- Removing patients and doctors.





Thank you



Thank You