

SELF-HELP APP

GROUP-1



TECHNOLOGY STACK

- Front End: Angular
- ORM: Hibernate
- Source Control: git
- Backend: Springboot
- Database: MySQL

1

DATABASE DESIGN

3



DATABASE DESIGN

Patient

Attributes: **PatientID**, **Username**, Password, **DoctorID** (Doctor), SectionsCompleted, EmailVerified, Name, Age, Sex, **Email**, Address, DOB, Marital Status and other relevant information..

Specialist

Attributes: **SpecID**, **Username**, Password, Name, **Email**.

Legend:

 : Primary Key

 : Surrogate Key

 : Foreign Key

 : Unique



DATABASE DESIGN

Doctor

Attributes: **DoctorID**,
Username, Password, Name,
Email, **SpecialistID**
(Specialist), RoomCode.

Admin

Attributes **AdminID**, **Username**,
Password, Name, **Email**.

Legend:

 : Primary Key

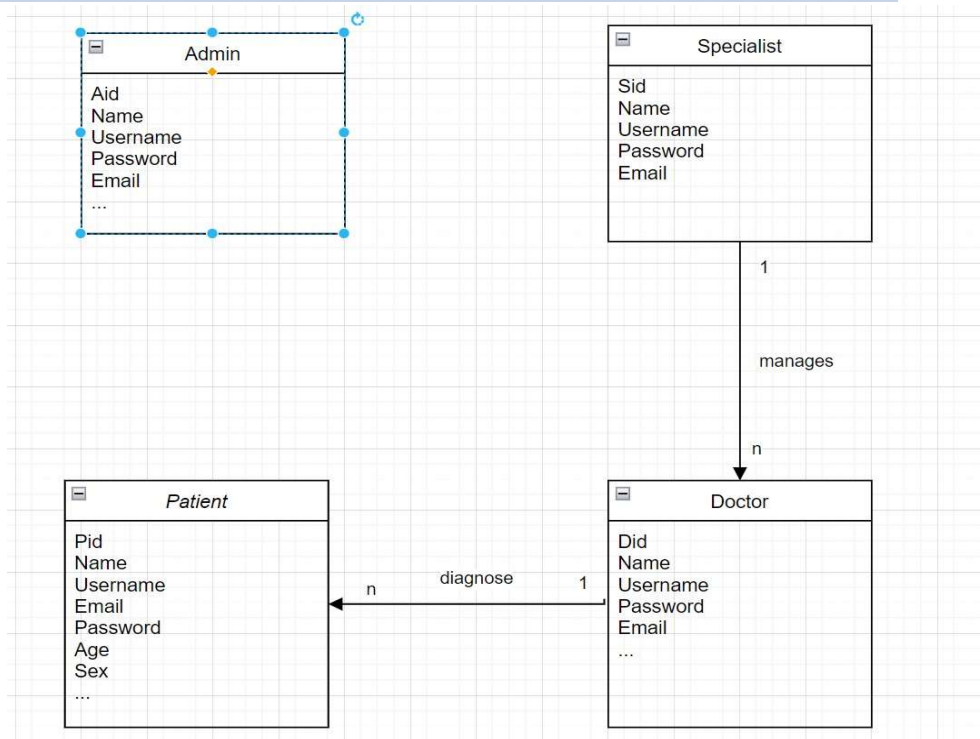
 : Surrogate Key

 : Foreign Key

 : Unique



CLASS DIAGRAM



The background features a large, light blue trapezoidal shape on the left side. Below it is a dark blue trapezoidal shape. In the bottom right corner, there is a small orange trapezoidal shape. The overall design is minimalist and modern.

2

API DESIGN

7



PATIENT'S API CALLS

- **/login(POST)**: Allows the user (Patient, Doctor, Admin or Specialist) to login to the application.
- **/register(POST)**: Allows registration of only Patients.
- **/findExistingEmail/{email}(GET)**: Checks if the email is already in database.
- **/findExistingUName/{username}(GET)**: Checks if the username is already in database.



PATIENT'S API CALLS

- **{username}/progress/{section}(GET)**: Updates the Section wise progress of the patient through the material.
- **/updateProfile(POST)**: User can update its own profile. However, some details can't be updated by the user such as medical records.
- **/forgotPassword(POST)**: User can update its password after authentication.
- **/logout(POST)**: Logs the user out and clears any relevant session variables.



DOCTOR'S API CALLS

- **/progress/{username}(POST)**: Doctors can check the Progress of a particular use.
- **/generateRoomCode/{username}(POST)**: Generates the room code of a Doctor.
- **/joinRoom(POST)**: Joins any existing room of a doctor.
- **/progress/{username}(POST)**: Doctors can check the Progress of a particular user.



DOCTOR'S API CALLS

- **/remSections/{username}/{sectionList}(POST)**: Removes access of the sections from a particular user.
- **/addSections/{username}/{sectionList}(POST)**: Removes access of the sections from a particular user.



ADMIN'S API CALLS

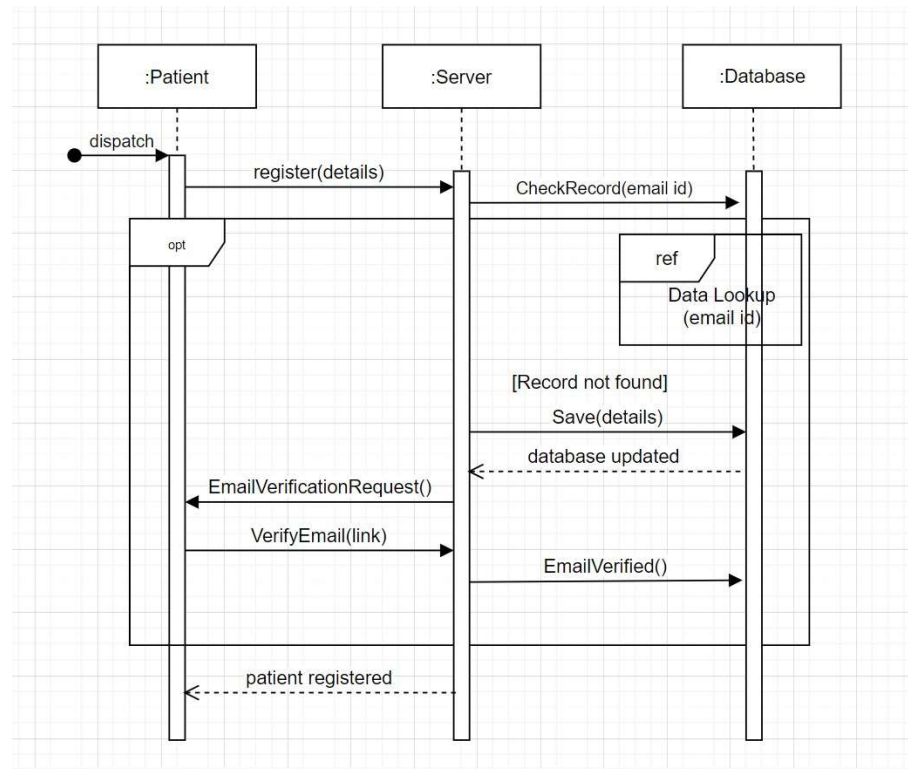
- **/editPatient/{username}(POST)**: Edits all the data of the Patient.
- **/delPatient/{username}(POST)**: Deletes a Patient.
- **/editDoc/{username}(POST)**: Edits the data of a Doctor.
- **/delDoc/{username}(POST)**: Deletes a Doctor.
- **/registerSpec(POST)**: Register a new Specialist.
- **/editSpec/{username}(POST)**: Edits the details of a Specialist.
- **/delSpec/{username}(POST)**: Deletes a Specialist.

3

SEQUENCE DIAGRAMS

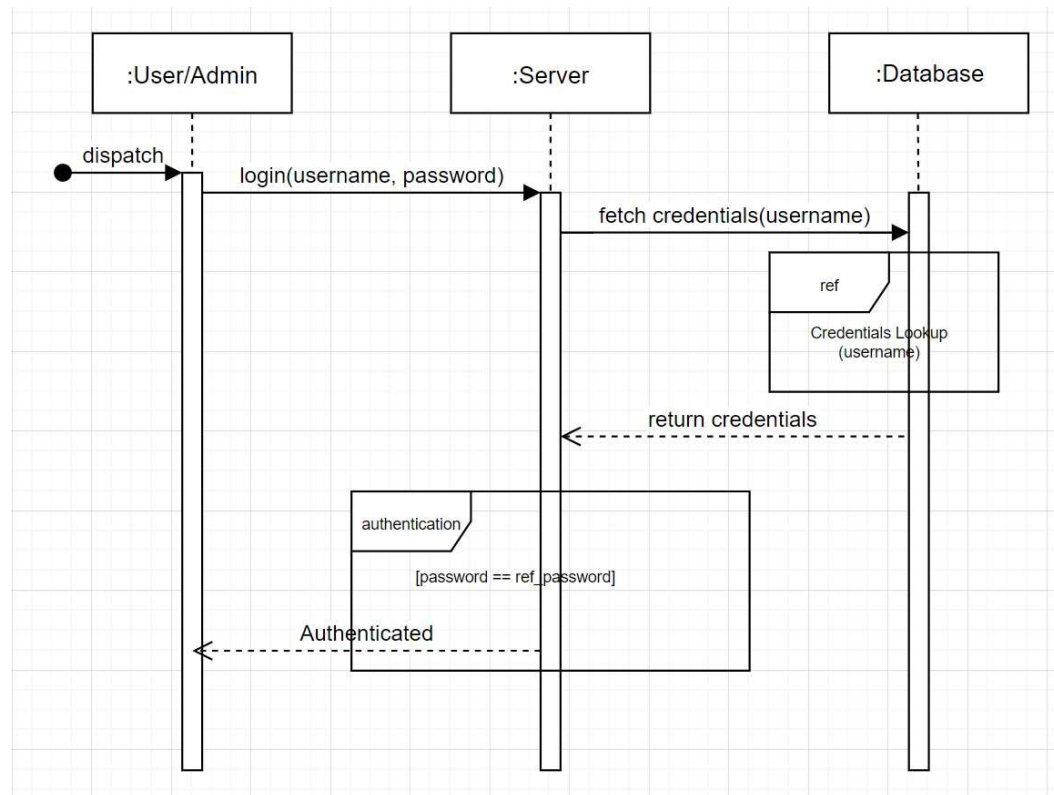


PATIENT REGISTER



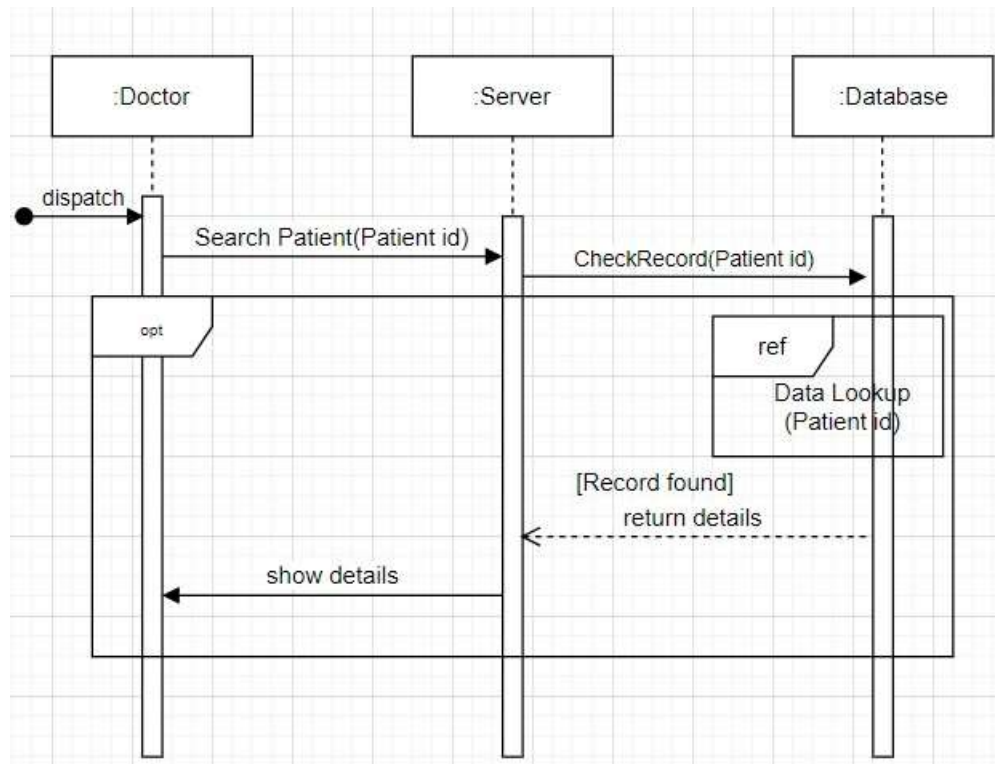


USER LOGIN



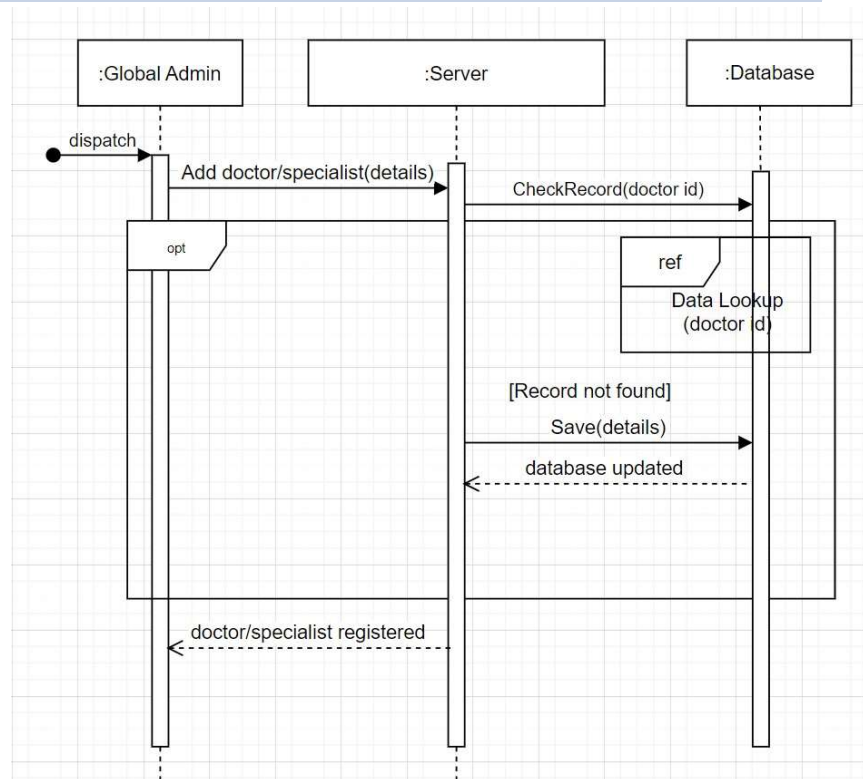


DOCTOR SEARCH



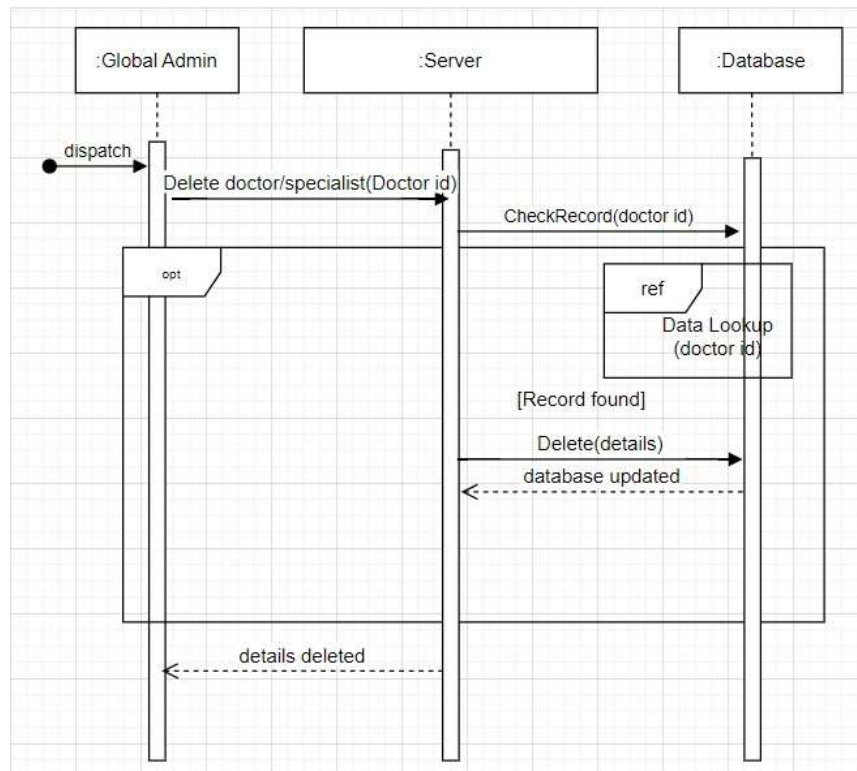


ADD DOCTOR/SPECIALIST-ADMIN



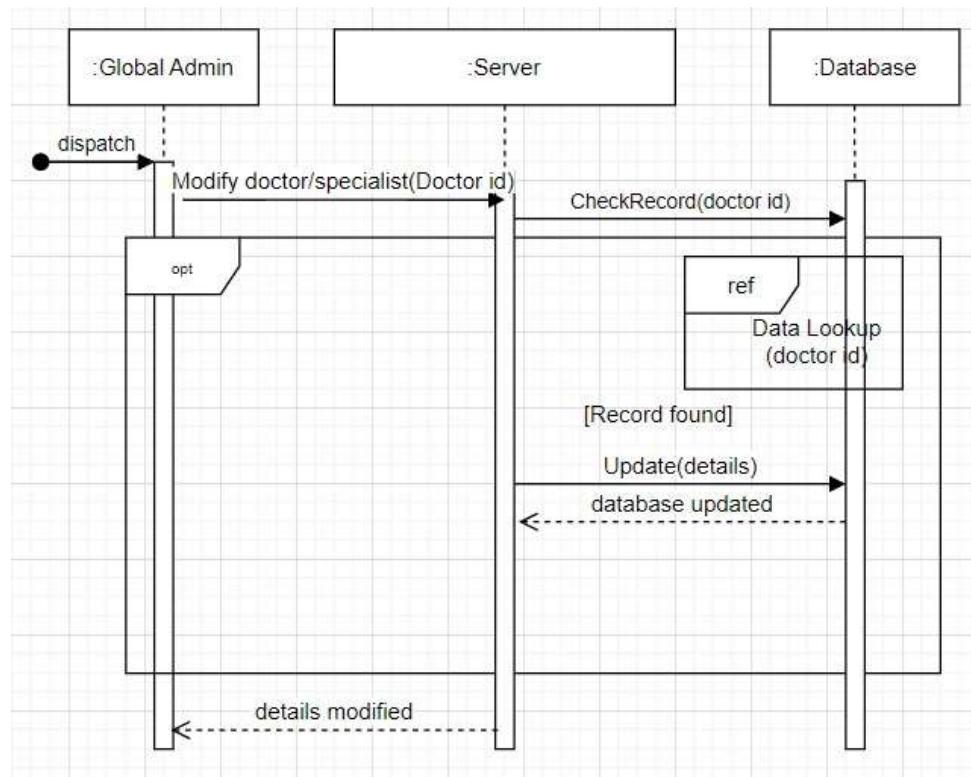


DELETE DOCTOR/SPECIALIST-ADMIN





MODIFY DOCTOR/SPECIALIST-ADMIN





THANKS!

