**DB Design**

Patient: Stores the data of all the patients registered with the application.

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

Specialist: Stores the data of the Specialists registered.

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

Doctor: Stores the data of the Doctors.

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

Admin: Stores the details of the Admins.

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

Legend:

----- : Primary Key

----- : Surrogate Key

----- : Foreign Key

----- : Unique

**API Design**

**/login**: Allows the user (Patient, Doctor, Admin or Specialist) to login to the application.

**Method**: POST

**Request Body:**

username – Username of the user.

password – Password of the user.

type – Doctor, Specialist, Patient or Admin.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/register**: Allows registration of only Patients.

**Method**: POST

**Request Body:**

Username – Username selected by the user.

Password - Password of the user.

DoctorID (Doctor) – Optionally the user can select the doctor assigned to him/her.

Name – Name of the Patient.

Email – Email of the user.

Age – Age of the Patient.

Sex – Sex of the Patient.

Address – Address of the Patient.

DOB – DOB of the Patient.

Marital Status – Marital Status of the Patient.

Other Relevant Fields.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/findExistingEmail/{email}:** Checks if the email is already in database.

**Method**: GET

**Attributes**: email to be checked.

**Returns**: A Status object stating if the email exists in the database or not.

**/findExistingUName/{username}:** Checks if the username is already in database.

**Method**: GET

**Attributes**: username to be checked.

**Returns**: A Status object stating if the username exists in the database or not.

**{username}/progress/{section}**: Updates the Section wise progress of the patient through the material.

**Method**: GET

**Attributes**: username of the user who’s logged in.

section which the Patient most recently visited.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/updateProfile**: User can update its own profile. However, some details can’t be updated by the user such as medical records.

**Method**: POST

**Request Body:**

Name – Name of the Patient.

Age – Age of the Patient.

Address – Address of the Patient.

Marital Status – Marital Status of the Patient.

Other Relevant Fields.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/forgotPassword**: User can update its password after authentication.

**Method**: POST

**Request Body:**

password: Old Password

new-password: New password

**Returns**: A Status object stating if the transaction was executed properly or not.

**/logout**: Logs the user out and clears any relevant session variables.

Method: POST

**Returns**: A Status object stating if the transaction was executed properly or not.

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**/progress/{username}:** Doctors can check the Progress of a particular user.

**Method**: POST

**Attributes**: username of the patient whose progress is to be checked.

**Returns**: A Status object which contains the sections completed by the Patient.

**/generateRoomCode/{username}:** Generates the room code of a Doctor.

**Method**: POST

**Attributes**: username of the doctor.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/joinRoom**: Joins any existing room of a doctor.

**Method**: POST

**Request Body:**

room-code: Room Code provided by the doctor to the patient.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/progress/{username}:** Doctors can check the Progress of a particular user.

**Method**: POST

**Attributes**: username of the patient whose progress is to be checked.

**Returns**: A Status object which contains the sections completed by the Patient.

**/remSections/{username}/{sectionList}:** Removes access of the sections from a particular user.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

sectionList: list of sections which are to be removed.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/addSections/{username}/{sectionList}:** Removes access of the sections from a particular user.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

sectionList: list of sections which are to be added.

**Returns**: A Status object stating if the transaction was executed properly or not.

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**/editPatient/{username}**: Edits all the data of the Patient.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

**Request Body:**

DoctorID (Doctor) – Optionally a Doctor’s ID can be given.

SectionsCompleted – Sections completed by the User.

Name – Name of the Patient.

Age – Age of the Patient.

Sex – Sex of the Patient.

Address – Address of the Patient.

DOB – DOB of the Patient.

Marital Status – Marital Status of the patient.

Other Relevant Fields.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/delPatient/{username}**: Deletes a Patient.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/registerDoc**: Register a new Doctor in the system.

**Method**: POST

**Request Body:**

username – Username of the Doctor.

password – Password

name – Name of the Doctor.

email – Email of the Doctor.

specialistID (Specialist) – Specialist responsible for the Doctor.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/editDoc/{username}**: Edits the data of a Doctor.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

**Request Body:**

username – Username of the Doctor.

password – Password

name – Name of the Doctor.

email – Email of the Doctor.

specialistID (Specialist) – Specialist responsible for the Doctor.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/delDoc/{username}**: Deletes a Doctor.

**Method**: POST

**Attributes**: username of the doctor to be deleted.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/registerSpec**: Register a new Specialist.

**Method**: POST

**Request Body:**

username – Username of the Specialist.

password - Password

name – Name of the Specialist.

email – Email of the Specialist.

**/editSpec/{username}**: Edits the details of a Specialist.

**Method**: POST

**Attributes**: username of the patient access is to be edited.

**Request Body:**

username – Username of the Specialist.

password - Password

name – Name of the Specialist.

email – Email of the Specialist.

**Returns**: A Status object stating if the transaction was executed properly or not.

**/delSpec/{username}**: Deletes a Specialist.

**Method**: POST

**Attributes**: username of the specialist to be deleted.

**Returns**: A Status object stating if the transaction was executed properly or not.