**Doctor Management Application**

**Overview :**

The Doctor Management Application is designed to help users and administrators manage doctor records efficiently. The application provides functionality to add, view, update, and delete doctor information while maintaining a clean and intuitive user interface.

The system is powered by a React.js frontend and an Express.js + MongoDB backend, ensuring a seamless flow of data between the client and server.

**Tech Stack**

Frontend: React.js, CSS

Backend: Node.js, Express.js

Database: MongoDB

**Actors**

Admin/User:

Can add, update, delete, and view doctor information.

**Features**

Admin/User Operations

Add New Doctor

Admin can add doctor records, including:

ID

Name

Specialization

Phone Number

Location

**View Doctor List**

A complete list of doctors is displayed in a table format with columns for:

ID

Name

Specialization

Phone Number

Location

**Update Doctor Information**

Admin can edit and update existing doctor records directly from the table.

**Delete Doctor Record**

Admin can delete a doctor record from the list.

**Search Functionality**

Filter or search doctors based on criteria like ID, Name, or Specialization (future enhancement).

Tables/Collections

Doctors Collection (MongoDB)

Field Data Type Description

id Number Unique ID of the doctor

name String Doctor's name

specification String Doctor's specialization

phone\_num Number Contact number

location String Location or clinic address

Pages

Frontend Pages

**Doctor List Page**

Displays all doctors in a table format.

Includes action buttons: Edit and Delete.

Doctor Form Page

Form to add or update doctor information.

Fields: ID, Name, Specialization, Phone Number, Location.

**Admin/User Functionalities**

Add, update, or delete records using a form-based interface.

API Endpoints

Backend Routes

Method Endpoint Description

POST /adddoctor Add a new doctor

GET /docinfo Fetch the list of all doctors

PUT /updatedoctor/:id Update doctor information by ID

DELETE /deletedoctor/:id Delete doctor information by ID

Doctor List Table

Displays all doctor details with Edit and Delete buttons in the last column.

**Add/Edit Doctor Form**

A simple form to input or update doctor details.

Submit button dynamically changes to Update Record or Add Record based on the operation.

Admin URL

Admin accesses the system through the app directly.