Hospital\_Management\_system

V1.0

Surya M ,karumuri Adinarayana ,Vidya A

Java Mode 2 Training – Final Hackathon

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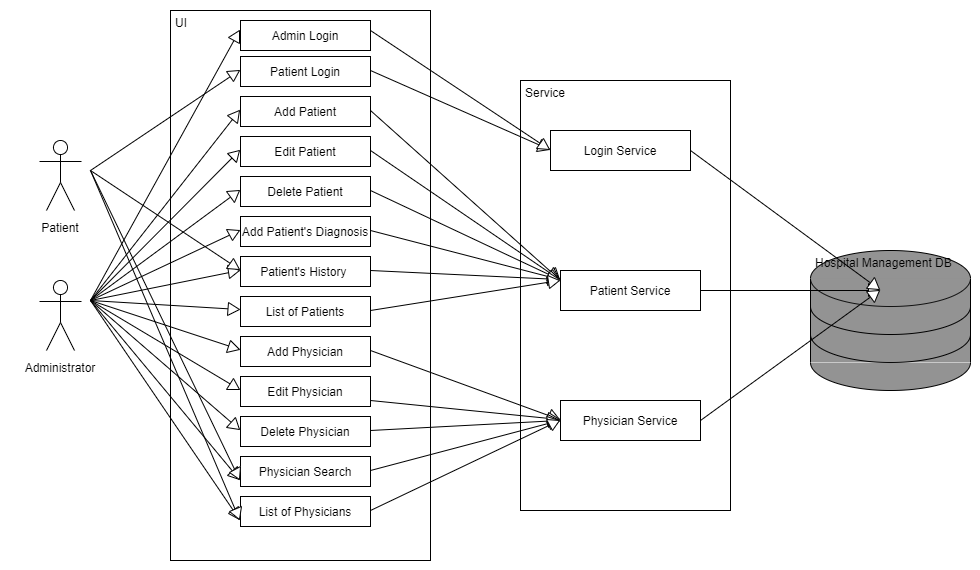
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# Use Cases

UML DIAGRAM:



# **Database Design**

Patient

### Schema

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Patient id | int | Primary |
| First Name | Varchar(50) | NOT NULL |
| Last Name | Varchar(50) | NOT NULL |
| DOB | Date | NOT NULL |
| Email | Varchar(50) | NOT NULL |
| Contact No | Long int | NOT NULL CHECK |
| State | Varchar(10) | NOT NULL |
| Insurance Plan | Varchar(50) | NOT NULL |

### Sample data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **First Name** | **Last Name** | **Password** | **DOB** | **Email** | **Contact No** | **State** | **Insurance Plan** |
| Vignesh | Sundaram | abc@123 | 20/10/1994 | Vignesh@gmail.com | 1234678901 |  |  |

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Physician Id | int | Primary |
| First Name | Varchar(50) | NOT NULL |
| Last Name | Varchar(50) | NOT NULL |
| Department | Varchar(50) | NOT NULL |
| Qualification | Varchar(50) | NOT NULL |
| Experience yrs | Int | NOT NULL |
| State | Varchar(10) | NOT NULL |
| Insurance Plan | Varchar(50) | NOT NULL |

Physician

Schema

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **First Name** | **Last Name** | **Department** | **Qualification** | **Experience**  **yrs** | **State** | **Insurance Plan** |
| Dr.Paul | Thuraisamy | Orthopedics | MBBS,MS(ortho) | 12 | Delhi |  |

Sample data

Patient Diagnosis

Schema

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Patient Name | Varchar(50) | NOT NULL |
| Diagnosis Id | Varchar(50) | Primary |
| Symptoms | Varchar(50) | NOT NULL |
| Diagnosis Provided | Varchar(50) | NOT NULL |
| Administered | Varchar(50) | NOT NULL |
| Date Of Diagnosis | Date | NOT NULL |
| Follow Uo | Boolean | NOT NULL |
| FollowUp Date | Date | NOT NULL |
| Bill Amount | Long int | NOT NULL CHECK |
| Card Number | Long int | NOT NULL CHECK |
| Mode Of Payment | Varchar(50) | NOT NULL |

Sampe data

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient**  **Name** | **Diagnosis**  **id** | **symptoms** | **Diagnosis**  **provided** | **Administered**  **by** | **Date of diagnosis** | **Follow**  **up** | **Followup**  **date** | **Bill**  **amount** | **Card**  **number** | **Mode**  **Of payement** |
| abc | 12345 | fever | Heart attack | Dr.srikanth | 1/1/2021 | true | 12/1/2021 | 50000 | 3456  6789  6789 | Debit card |

# UI Screens

## 

## Login

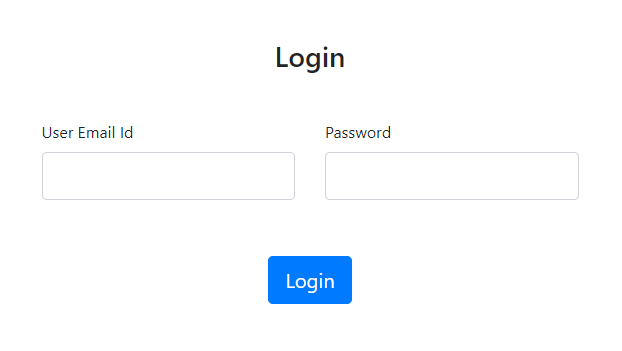
### Login – Initial

Server URL: <http://localhost:8200/login>

Server Request: {”Email Id”:”sample@gmail.com”, “password" :"sample123 "}

Server Response: {“msg”:“success”} – http status –ok





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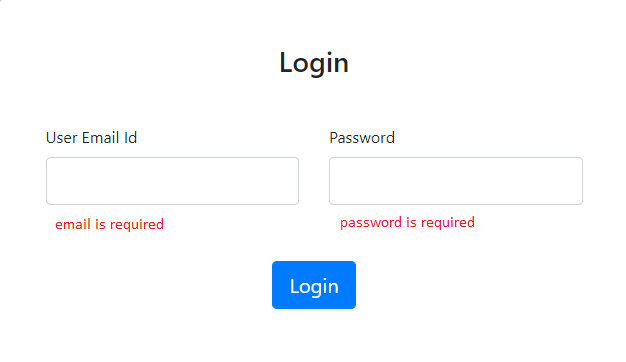
Login – Error1

Server URL: http://localhost:8200/login

Server Request: {”emailId”:””, “password" :""}

Server Response: {“msg”:“Email and Password is Required”} – http status - not ok





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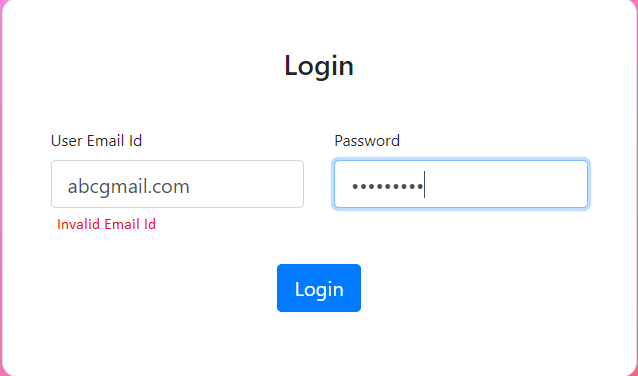
### Login – Error 2

Server URL: http://localhost:8200/login

Server Request: {”emailId”:”ABCGmail.com”, “password" :"sample123"}

Server Response: {“msg”:“invalid mail id”} – http status - not ok





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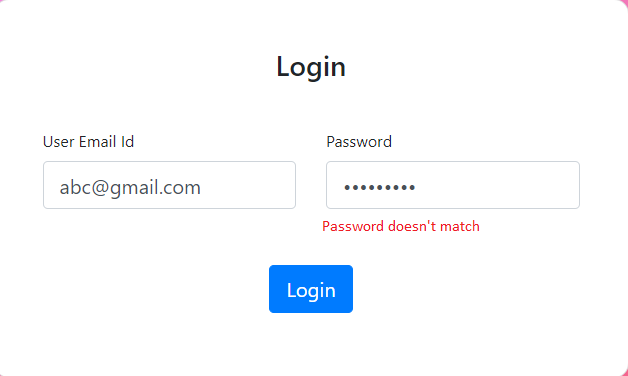
Login Error-3

Server URL: http://localhost:8200/login

Server Request: {”emailId”:”ABC@gmail.com”, “password" :"67889sample"}

Server Response: {“msg”:“password doesn't match”} – http status - not ok





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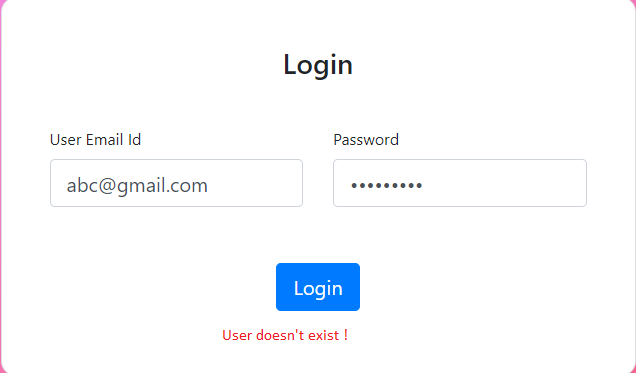
Login – Error 4

Server URL: http://localhost:8200/login

Server Request: {”emailId”:”ABC@yahoo.com”, “password" :"sample123"}

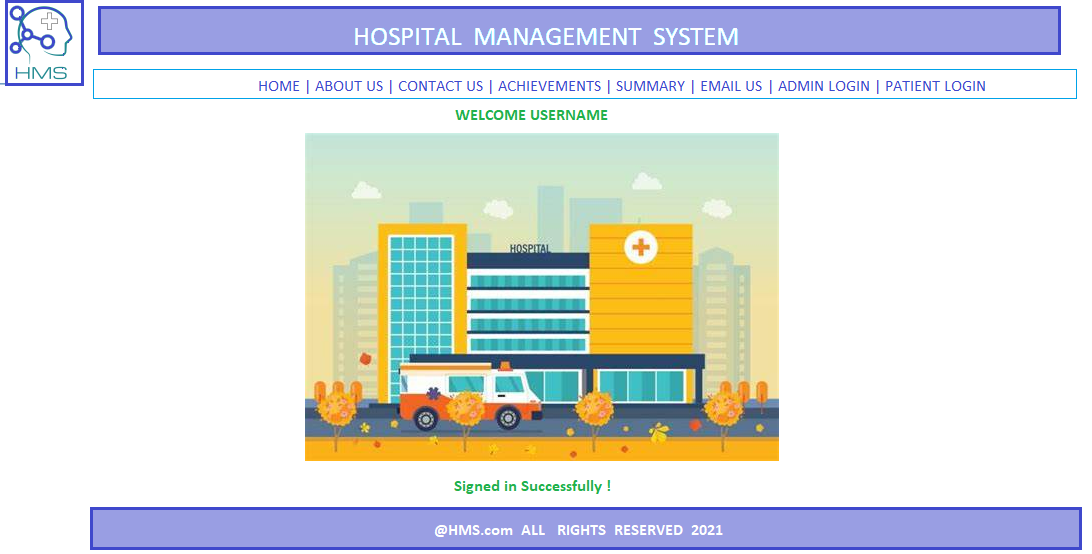
Server Response: {“msg”:“user doesn't exist”} – http status - not ok





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Login – Success



Register

PATIENT

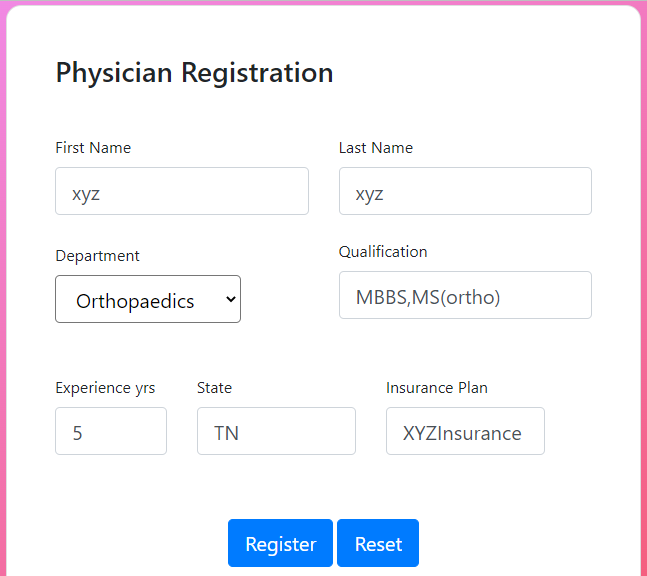
Patient -- initials

Server URL: http://localhost:8200/register

Server Request: {"firstName":"abc" ,"LastName":"xyz" ,"department":"orthopedaeics" educationQualification":"MBBS,MS(ortho)", "yearsOfExperience":5, "State":"TN", "InsurancePlan":"abc plan"}

Server Response: {“msg”:success } – http status - ok





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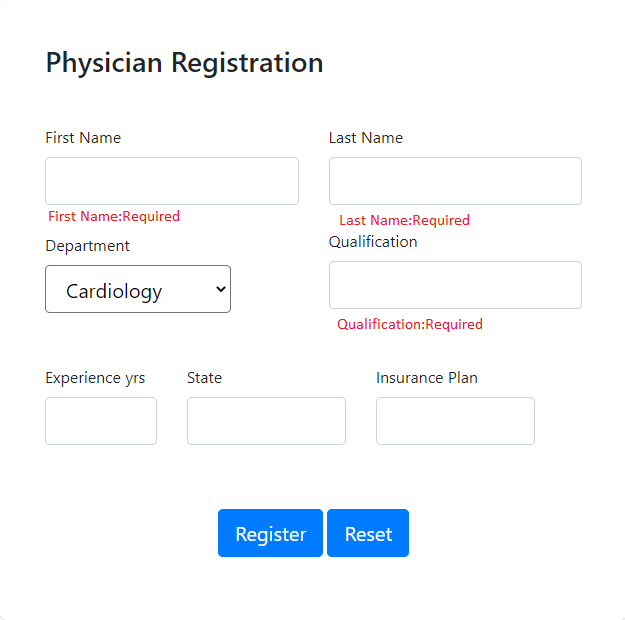
Register – Error1

Server URL: http://localhost:8200/register

Server Request: {"firstName":"abc" ,"LastName":"abc" ,"department":"abc" educationQualification":"abc", "yearsOfExperience":0, "State":"abc", "InsurancePlan":"abc"}

Server Response: {“msg”:suitable error message} – http status - not ok





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Patient

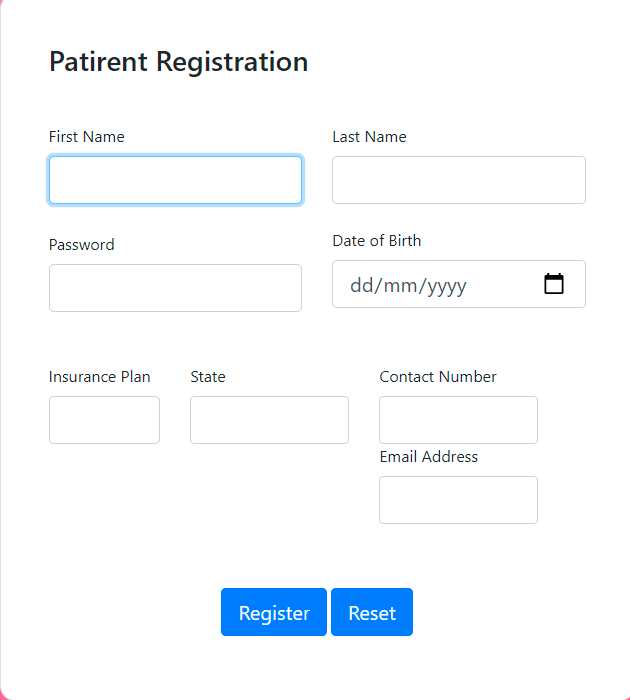
Register – Initials

Server URL: <http://localhost:8200/register>

Server Request: {"firstName":"abc" ,"LastName":"abc" ,"DOB":"abc" Email":"abc", "contactNo":1234468, "State":"abc", "Insurance":"abc"}

Server Response: {“msg”:Success} – http status – ok



-

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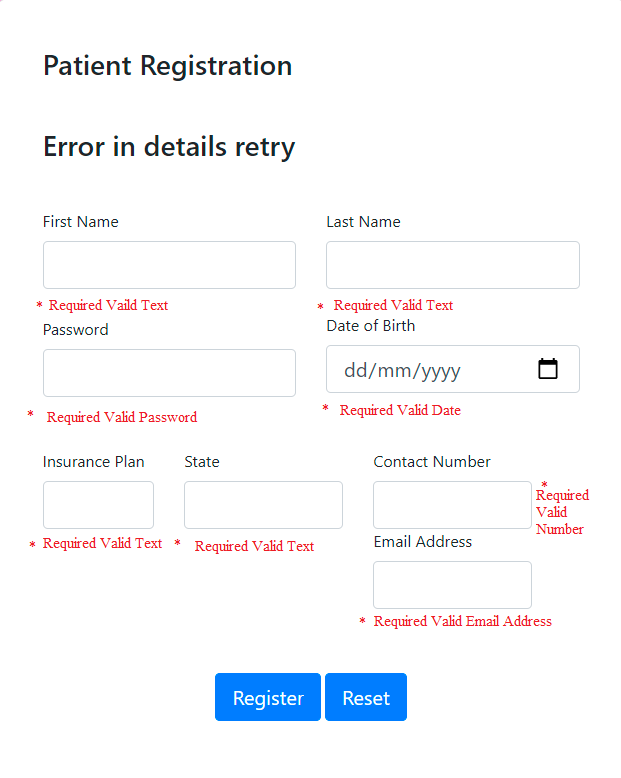
Register – Error1

Server URL: <http://localhost:8200/register>

Server Request: {"firstName":"" ,"LastName":"" ,"DOB":”" Email":"", "contactNo":”, "State":1 "Insurance":}

Server Response: {“msg”:Data should not be empty} – http status - not ok



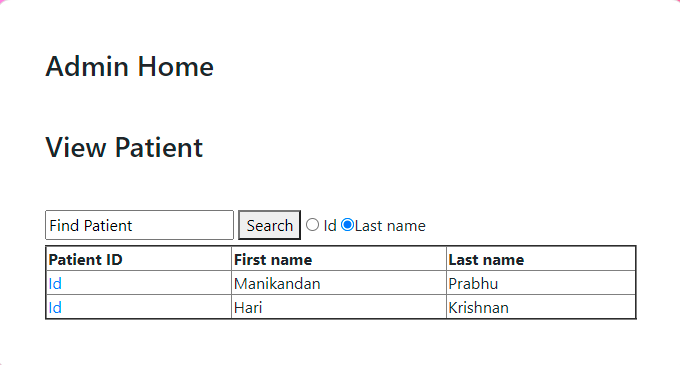


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**PatientSearch (After Search)**

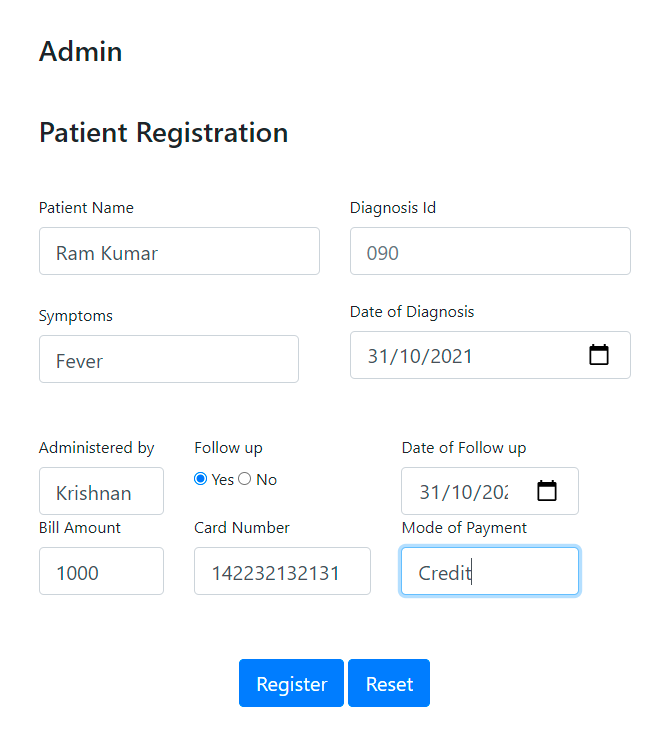
**Search – Initials**





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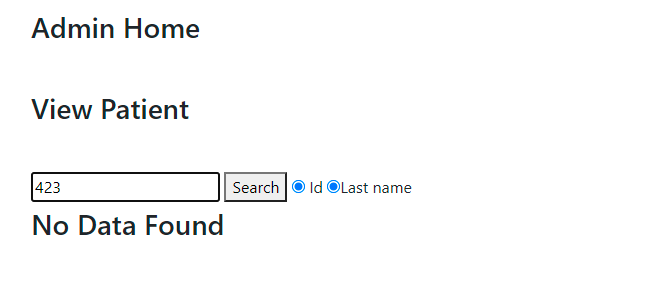




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Search – Error1



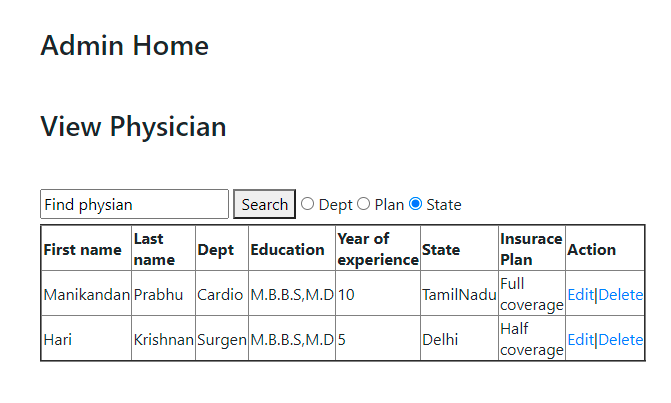


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Physician

Search – Initials

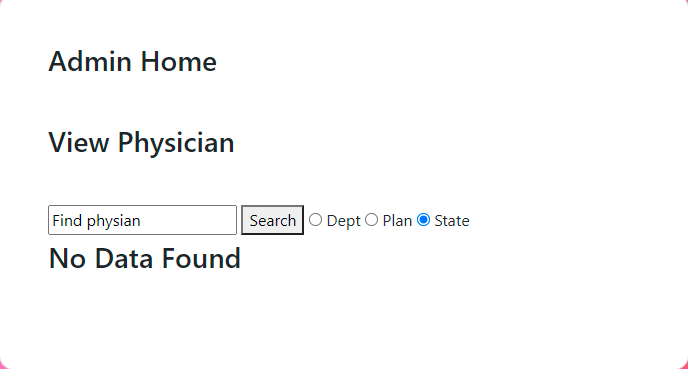




C:\Users\karumuri.adinarayana\Downloads\MicrosoftTeams-image (11).png

Search – Error1



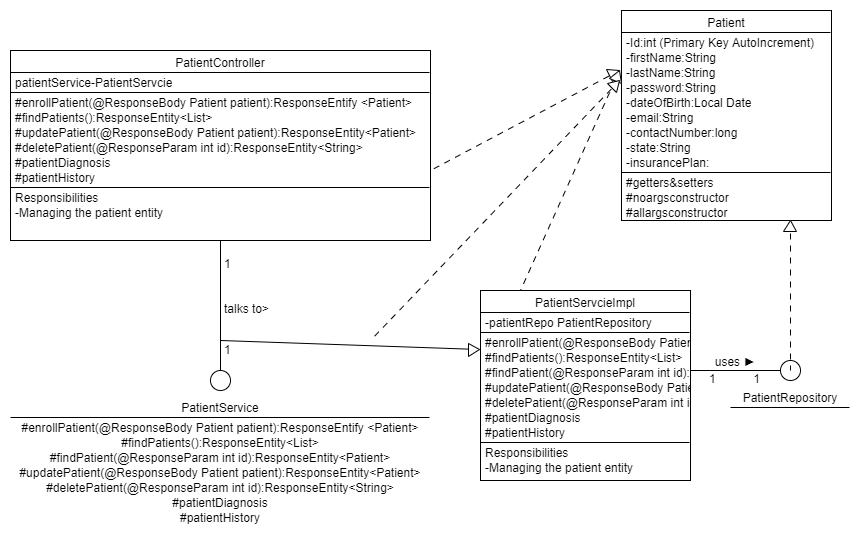


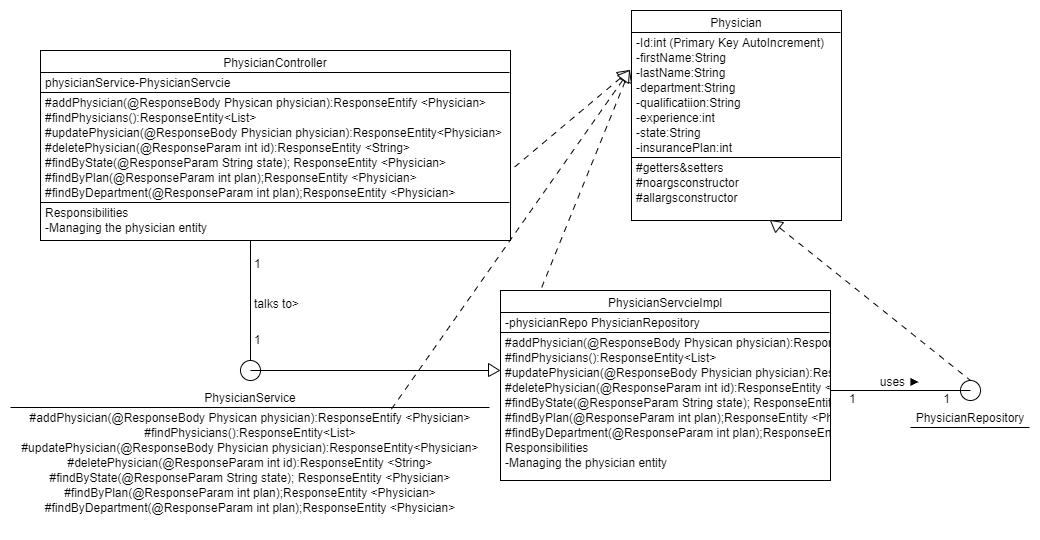
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## REST API design: HospitalManagementSystemAPI

### Entity objects (Models – tables in database)

# Class Diagram





# Sequence Diagram

