CS 207 Database and Information Systems

Aug-Nov 2021

Project Report

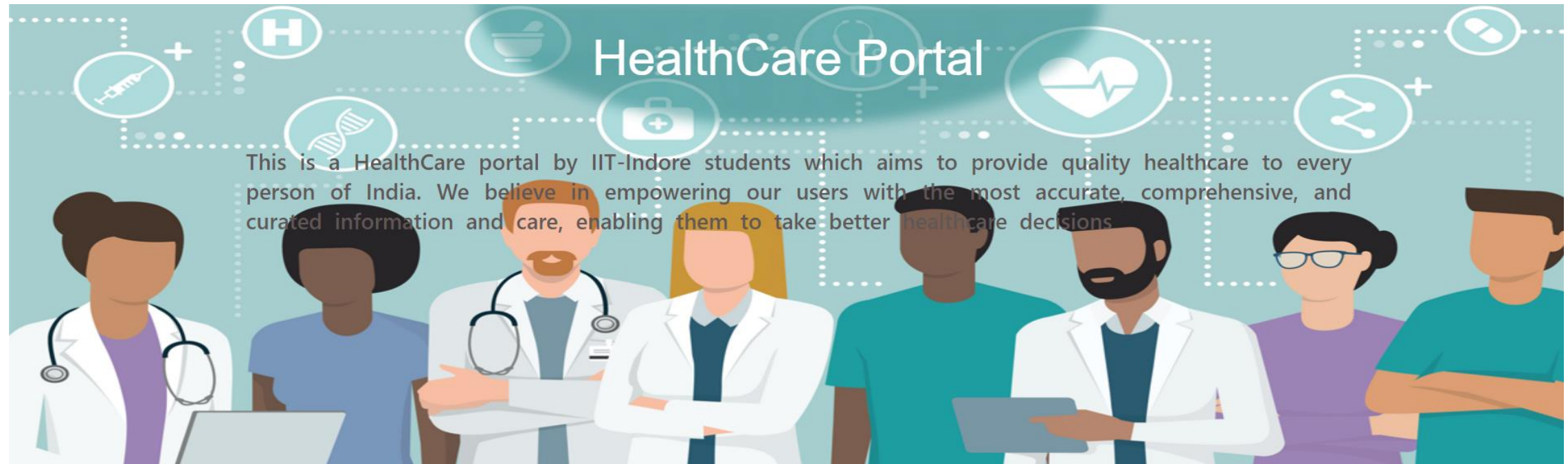# All-Inclusive Healthcare Portal

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Problem Statement

HealthCare Portal

This is a HealthCare portal by IIT-Indore students which aims to provide quality healthcare to every person of India. We believe in empowering our users with the most accurate, comprehensive, and curated information and care, enabling them to take better healthcare decisions

MySQL Scripts for creating all Tables Present in the Database

1) **Hospital Table**

   CREATE TABLE IF NOT EXISTS `Hospital` (

    `hosp_ID` int,

    `hospName` varchar(255),

    `hospEmail` varchar(255),

    `hospPhone` INT,

    `hospAddress` varchar(255),

    `hosp_city` varchar(100),

     `hosp_state` varchar(100),

    `hospPassword` varchar(255),

   `hosp_description` varchar(300),

    PRIMARY KEY (`hosp_id`));

2) **Oxygen Details Table**

   CREATE TABLE IF NOT EXISTS `OxygenDetails` (

    `hosp_ID` INT,

    `litres_available` INT,

    `supply_per_hour` INT,

    `price_per_litre` INT,

    PRIMARY KEY (`hosp_id`),

    FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)

    );

3) Surgery Details Table

```sql
CREATE TABLE IF NOT EXISTS `SurgeryDetails` (
 `hosp_ID` int,
 `heart` BOOLEAN,
 `joint` BOOLEAN,
 `abdominal` BOOLEAN,
 PRIMARY KEY (`hosp_id`),
 FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)
 );
```

4) Beds Details Table

```sql
CREATE TABLE IF NOT EXISTS `BedsDetails` (
 `hosp_ID` int,
 `BedsQuantity` int,
 PRIMARY KEY (`hosp_id`),
 FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)
 );
```

5) Blood Details Table

```sql
CREATE TABLE IF NOT EXISTS `BloodDetails` (
 `hosp_ID` int,
 `AP_Quantity` int,
 `AN_Quantity` int,
 `BP_Quantity` int,
 `BN_Quantity` int,
 `OP_Quantity` int,
 `ON_Quantity` int,
 `ABP_Quantity` int,
  `ABN_Quantity` int,
```

PRIMARY KEY (`hosp_id`),

FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)

);

6) Ambulance Details Table

CREATE TABLE IF NOT EXISTS `AmbulanceDetails` (

`hosp_ID` int,

`AmbulanceQuantity` int,

PRIMARY KEY (`hosp_id`),

FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)

);

7) Doctor Details Table

CREATE TABLE IF NOT EXISTS `doctor` (

`doc_ID` varchar(100),

`docName` varchar(255),

`doc_s` varchar(255),

`docPhone` INT,

`docAddress` varchar(255),

`docPassword` varchar(255),

`hosp_ID` INT,

PRIMARY KEY (`doc_id`),

FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)

);

8) User Details Table

```
CREATE TABLE IF NOT EXISTS `user` (
`UserId` INT NOT NULL,
`UserName` VARCHAR(45) NULL DEFAULT NULL,
`UserPassword` VARCHAR(45) NULL DEFAULT NULL,
`UserAddress` VARCHAR(45) NULL DEFAULT NULL,
`UserPhone` INT NULL DEFAULT NULL,
`UserDOB` DATE NULL DEFAULT NULL,
PRIMARY KEY (`UserId`));
```

9) Time Slots Table

```
CREATE TABLE IF NOT EXISTS `TimeSlots` (
`Time_ID` int auto_increment,
`Doc_ID` varchar(100),
`Start_Time` time,
`End_Time` time,
`Appt_Date` date,
`Availability` int,
PRIMARY KEY (`Time_ID`),
FOREIGN KEY (`Doc_id`) REFERENCES Doctor(`doc_ID`)
);
```

10) Appointment Table

```
 CREATE TABLE IF NOT EXISTS `Appointment` (
 `UserID` int,
       `Time_ID` int,
 `doc_ID` varchar(100),
`MeetLink` varchar(100),
`PreDescription` varchar(100),
`PostDescription` varchar(100),
`Acceptance_Status` int,
PRIMARY KEY (`UserID`,`Time_ID`),
FOREIGN KEY (`UserID`) REFERENCES User(`UserID`),
 FOREIGN KEY (`Time_ID`) REFERENCES TimeSlots(`Time_ID`),
 FOREIGN KEY (`Doc_id`) REFERENCES Doctor(`doc_ID`)
 );
```

11) Chat Table

```
CREATE TABLE IF NOT EXISTS `chat` (
`chat_time` TIME NOT NULL,
`sender_id` VARCHAR(45) NOT NULL,
`receiver_id` VARCHAR(45) NOT NULL,
`msg` VARCHAR(45) NULL DEFAULT NULL,
`chat_date` DATE NOT NULL,
PRIMARY KEY (`chat_time`, `sender_id`, `receiver_id`, `chat_date`));
```

12) Vaccine Slots Table

```sql
CREATE TABLE IF NOT EXISTS vaccine_slots (
    `vaccine_time_id` int auto_increment,
    `hosp_id` int,
    `start_time` time,
    `end_time` time,
    `appt_date` date,
    `dose` int,
    `total_persons` int,
    `vaccine_type` varchar(100),
    PRIMARY KEY (`vaccine_time_id`),
    FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`)
);
```

13) Vaccine Book Table

```sql
CREATE TABLE IF NOT EXISTS vaccine_book (
    `UserID` int,
    `vaccine_time_id` int,
    `hosp_id` int,
    `dose` int,
    PRIMARY KEY (`dose`, `UserID`),
    FOREIGN KEY (`hosp_id`) REFERENCES Hospital(`hosp_id`),
    FOREIGN KEY (`vaccine_time_id`) REFERENCES vaccine_slots(`vaccine_time_id`),
    FOREIGN KEY (`UserID`) REFERENCES User(`UserID`)
);
```

14) Doctor Reviews Table

```
CREATE TABLE IF NOT EXISTS `Doctor_Reviews` (

 `Time_ID` int,

 `doc_ID` varchar(100),

 `User_Name` varchar(100),

 `Review` VARCHAR(100),

 `Rating` INT,

 PRIMARY KEY (`Time_ID`),

 FOREIGN KEY (`Time_ID`) REFERENCES TimeSlots(`Time_ID`),

 FOREIGN KEY (`doc_ID`) REFERENCES Doctor(`doc_ID`)

 );
```
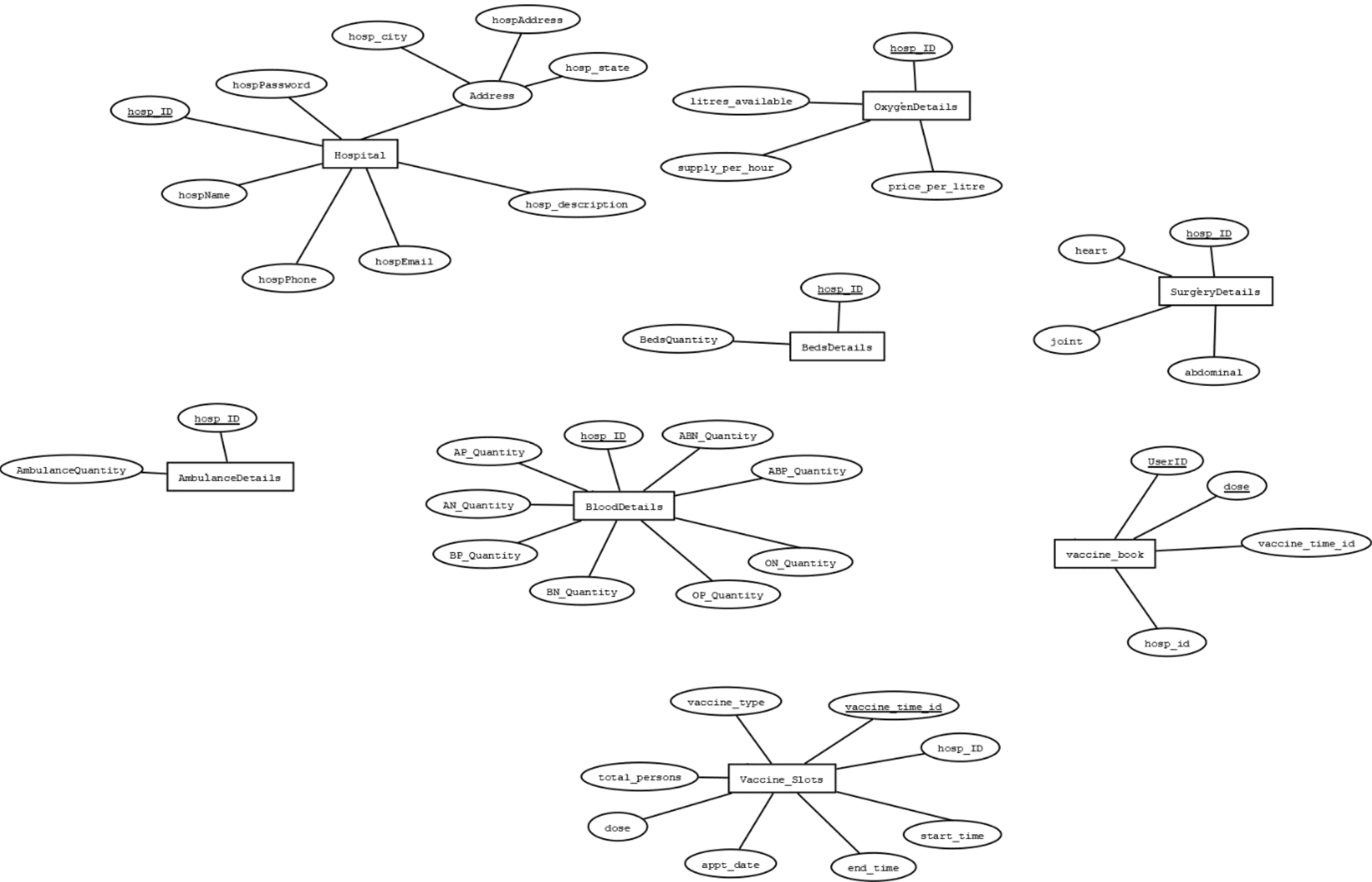
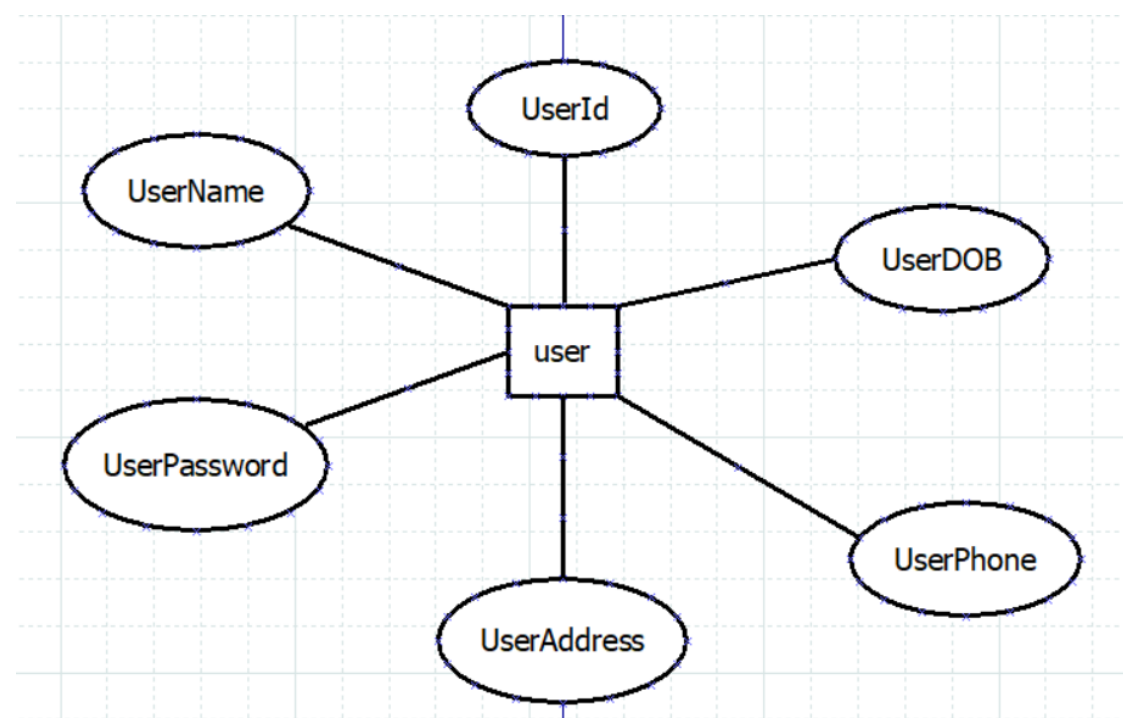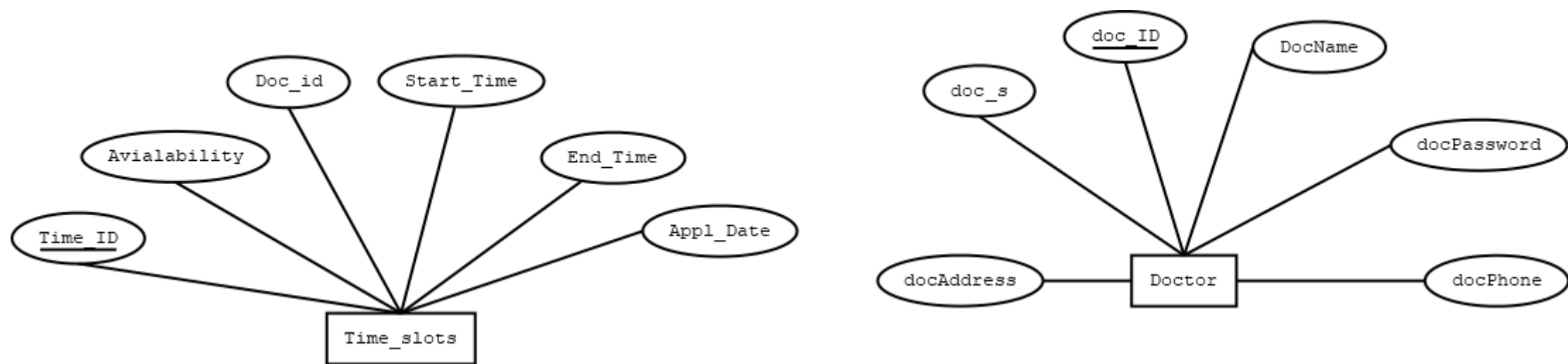#Acceptance_Status = 0 ... Request has been sent and is pending

#Acceptance Status = 1 ... Request has been accepted

#Acceptance Status = 2 ... Request has been declined

#Acceptance Status = 3 ... Request has been cancelled

Individual Entities Present in the Database

Time_slots entity with attributes: Time_ID, Avialability, Doc_id, Start_Time, End_Time, Appl_Date

Doctor entity with attributes: doc_s, doc_ID, DocName, docPassword, docAddress, docPhone

user entity with attributes: UserName, UserId, UserDOB, UserPassword, UserAddress, UserPhone

Entity-Relationship Diagram