# E DIAGNOSTIC LAB MANAGEMENT SYSTEM

# **Table design**

Login

| No: | Field name | Datatype | Key constraints | Description |
|-----|-----------|----------|-----------------|-------------|
| 1 | Username | Varchar(50) | Not Null | User name name for login |
| 2 | password | varchar(50) | Not Null | password |

User

| No: | Field name | Data type | Key constraints | Description |
|-----|-----------|-----------|-----------------|-------------|
| 1 | Userid | int | Primary key | Unique identifier for user |
| 2 | Username | varchar(50) | Not Null | User name for login |
| 3 | password | varchar(50) | Not Null | password |
| 4 | email | varchar(50) | Not Null | email |
| 5 | Phonenumber | int | Not Null | Contactnumber |
| 6 | Role | Enum(Patient,Staff) | Not null | Indicates whether the user is patient or staff. |
| 7 | Full name | Varchar(50) | Not Null | Full name of user |

Appointments

| No: | Field name | Data type | Key constraints | Description |
|---|---|---|---|---|
| 1 | Appoinmentid | int | Primary key | Unique identifier for each appoinment |
| 2 | userid | int | foreignkey | Referenced to the user who booked |
| 3 | Appoinment_date | date | Not Null | Date and time for appoinment |
| 5 | Appoinment_method | varchar(50) | Not Null | Online/Offline |
| 6 | Testid | int | Foreign key | Referenced to the test booked |

Test

| No: | Field name | Data type | Key constraints | Description |
|---|---|---|---|---|
| 1 | Testid | int | Primary Key | Unique identifier for each test |
| 2 | TestName | varchar(50) | Not Null | Name of test |
| 3 | Cost | decimal | Not Null | Cost of test |

Test-result

| No: | Field name | Data type | Key constraints | Description |
|---|---|---|---|---|
| 1 | resultid | int | Primary Key | Unique identifier for each test result |
| 2 | Userid | Int | Foreign key | Referencing to the user |
| 3 | Testid | int | Foreign key | Referencing the test conducted |
| 4 | Resultdata | text | Not Null | Detailed data of test result |

## Health-issues

| No: | Field name | Data type | Key constraints | Description |
|-----|------------|-----------|-----------------|-------------|
| 1 | Healthissueid | int | Primary key | Unique identifier for each issue |
| 2 | Issuename | varchar(50) | Not Null | Name of issue |

## User-Health-issues

| No: | Field name | Data type | Key constraints | Description |
|-----|------------|-----------|-----------------|-------------|
| 1 | Userhealthissueid | int | Primary Key | Unique identifier for each users issue |
| 2 | Userid | int | Foreign key | Refrencing the user with health issue |
| 3 | Healthissueid | int | Foreign key | Referencing the Health issue |

## Address

| No: | Field name | Data type | Key constraints | Description |
|-----|------------|-----------|-----------------|-------------|
| 1 | Addressid | int | Primary key | Unique identifier for each address |
| 2 | userid | int | Foreign key | Referencing the user associated with the address |
| 3 | Streetaddress | varchar(50) | Not Null | Street Address |
| 4 | city | Varchar(50) | Not Null | City of user |
| 6 | Postalcode | Varchar(50) | Not Null | Postal code of user |

## Payment

| No: | Field name | Data type | Key constraints | Description |
|---|---|---|---|---|
| 1 | Paymentid | int | Primary key | Unique identifier for payment |
| 2 | Appoinmentid | int | foreignkey | References appoinment associated with payment |
| 3 | Paymentdate | Datetime | Not Null | Date and time of payment |
| 4 | Amount(test+service) | decimal | Not Null | Amount payed |
| 5 | Payment_method | varchar(50) | Not Null | Method used(gpay,credit) |

## Payment-method-details

| No: | Field name | Data type | Key constraints | Description |
|---|---|---|---|---|
| 1 | Paymentdetailid | int | Primary key | Unique payment detail id |
| 2 | paymentmethod | varchar(50) | Not Null | Method of payment(gpay,credit) |
| 3 | accholdername | Varchar(50) | Not Null | Name of the acc holder |
| 4 | accno | int | Not Null | Account number |
| 5 | expirydate | int | Not Null | Expiry date for crd |
| 6 | Cvv | int | Not Null | Null for noncard users |
| 7 | userid | int | Foreign key | References the user who done payment |

## Online-Booking(Home service)

| No: | fieldname | Datatype | Key Constraints | Description |
|---|---|---|---|---|
| 1 | Onlinebookingid | int | Primary key | Unique online booking id |
| 2 | appoinmentid | int | Foreign key | References the appoinment booked user. |
| 3 | Distance | decimal | Not Null | Distance for taking sample |
| 4 | Amount | decimal | Not Null | Amount for the distance travelled |

## Travel-Cost

| No: | fieldname | Datatype | Key Constraints | Description |
|---|---|---|---|---|
| 1 | travelcostid | int | Primary key | Unique id for calculating travelcost |
| 2 | Min_distance | decimal | Not Null | Minimum distance of travelling |
| 3 | Amount | decimal | Not Null | Amount for minimum distance |

## Patient

| No: | fieldname | Datatype | Key constraints | Description |
|---|---|---|---|---|
| 1 | patientid | int | Primary Key | Unique identifier for patient |
| 2 | appoinmentid | int | Foreign key | References tothe appoinment |
| 3 | pname | Varchar(50) | Not Null | Patient Name |
| 4 | age | int | Not Null | Patient age |
| 5 | gender | Enum(male,female,others) | Not Null | Patient gender |