

## Medicine Reminder Application:

The Medicine Reminder Application is designed to help users manage their medication schedules effectively. It allows users to add their prescribed medicines, set reminders for taking those medicines, track their medication intake, and store information about prescriptions and prescribing doctors.

### Tables Used:

#### 1. Medicines Table

- Stores information about various medicines, including their names, dosage, and frequency of use.

#### Medicine Table

| Field        | Datatype     | Constraint  |
|--------------|--------------|-------------|
| MedicineID   | INT          | Primary Key |
| MedicineName | VARCHAR(255) | Not Null    |
| Dosage       | VARCHAR(25)  | Not Null    |
| Frequency    | VARCHAR(50)  | Not Null    |

#### 2. Doctors Table

- Contains details about doctors, such as their names, specialization, contact numbers, and email addresses.

#### Doctors Table

| Field          | Datatype     | Constraint  |
|----------------|--------------|-------------|
| DoctorID       | INT          | Primary Key |
| DoctorName     | VARCHAR(255) | Not Null    |
| Specialization | VARCHAR(255) | Not Null    |
| Contact        | VARCHAR(255) | Not Null    |
| Email          | VARCHAR(255) | Not Null    |

### 3. Users Table

- Stores information about users, including usernames, encrypted passwords, and email addresses.

#### User Table

| Field    | Datatype     | Constraint  |
|----------|--------------|-------------|
| UserID   | INT          | Primary Key |
| UserName | VARCHAR(255) | Not Null    |
| Email    | VARCHAR(255) | Not Null    |
| Password | VARCHAR(255) | Not Null    |

### 4. Prescriptions Table

- Tracks prescriptions issued to users, recording details such as the prescribing doctor, prescription date, and any additional notes.

#### Prescriptions Table

| Field          | Datatype | Constraint                      |
|----------------|----------|---------------------------------|
| PrescriptionID | INT      | Primary Key                     |
| UserID         | INT      | Foreign Key (References Users)  |
| DoctorID       | INT      | Foreign Key (References Doctor) |
| DatePrescribed | DATE     |                                 |
| Notes          | TEXT     |                                 |

### 5. MedicinePrescription Table

- Establishes a connection between medicines and prescriptions, capturing details like dosage, frequency, and specific instructions for each prescribed medicine.

#### MedicinePrescription Table

| Field                  | Datatype | Constraint  |
|------------------------|----------|-------------|
| MedicinePrescriptionID | INT      | Primary Key |

|                |      |                                       |
|----------------|------|---------------------------------------|
| PrescriptionID | INT  | Foreign Key (References Prescription) |
| MedicineID     | INT  | Foreign Key (References Medicine)     |
| StartDate      | DATE |                                       |
| EndDate        | DATE |                                       |
| Instructions   | TEXT |                                       |

## 6. MedicineReminder Table

- Manages medicine reminders for users, specifying the type of reminder (morning, afternoon, or night) and the scheduled date and time.

### MedicineReminder Table

| Field                  | Datatype | Constraint                                    |
|------------------------|----------|---|
| ReminderID             | INT      | Primary Key                                   |
| UserID                 | INT      | Foreign Key (References Users)                |
| MedicinePrescriptionID | INT      | Foreign Key (References MedicinePrescription) |
| MorningReminder        | BOOLEAN  |   |
| AfternoonReminder      | BOOLEAN  |   |
| NightReminder          | BOOLEAN  |   |

## 7. IntakeLog Table

- Records instances of users taking prescribed medicines, including the date and time of intake, dosage taken, and any additional notes.

### IntakeLogs Table

| Field                  | Datatype    | Constraint                                    |
|------------------------|-------------|---|
| LogID                  | INT         | Primary Key                                   |
| UserID                 | INT         | Foreign Key (References Users)                |
| MedicinePrescriptionID | INT         | Foreign Key (References MedicinePrescription) |
| IntakeDateTime         | DATETIME    |   |
| Dosage                 | VARCHAR(50) |   |
| Status                 | VARCHAR(50) |   |

## ER Diagram

