Hospital Management System - Migration Tables

# Database:-hospitals

# Tables

# Hospitals Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_name | VARCHAR(100) | Hospital\_name |
| hospital\_email | VARCHAR(150), UNIQUE | Hospital\_email |
| hospital\_contact | VARCHAR(255) | Hospital\_contact |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# Users Tables

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| username | VARCHAR(100) | User name |
| email | VARCHAR(150), UNIQUE | User email |
| password | VARCHAR(255) | User password |
| role | ENUM("superadmin","admin","doctor") | User role |
| phoneno | VARCHAR(10) | User phone number |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# Patients Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| name | VARCHAR(100) | Patient name |
| email | VARCHAR(150), UNIQUE | Patient email |
| phone | VARCHAR(20), NULL | Patient phone number |
| dob | DATE, NULL | Date of birth |
| gender | ENUM('male','female','other'), default='male' | Patient gender |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# OTPs Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| patient\_id | INT(11), UNSIGNED | Foreign key to patients.id |
| otp | VARCHAR(6) | 6-digit OTP |
| expires\_at | DATETIME | Expiration datetime |
| created\_at | DATETIME, NULL | Record creation timestamp |

# Doctors Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| userid | INT(11), UNSIGNED | Foreign key to users.id |
| specialization | VARCHAR(150) | Doctor specialization |
| qualification | VARCHAR(150), NULL | Doctor qualification |
| experience | INT(3), NULL | Experience in years |
| consultation\_fee | DECIMAL(10,2), NULL | Consultation fee |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# Appointments Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| patient\_id | INT(11), UNSIGNED | Foreign key to patients.id |
| doctor\_id | INT(11), UNSIGNED | Foreign key to doctors.id |
| start\_datetime | DATETIME | Appointment start datetime |
| end\_datetime | DATETIME | Appointment end datetime |
| status | ENUM('Scheduled','Completed','Cancelled'), default='Scheduled' | Appointment status |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# Visits Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| appointment\_id | INT(11), UNSIGNED | Foreign key to appointments.id |
| patient\_id | INT(11), UNSIGNED | Foreign key to patients.id |
| doctor\_id | INT(11), UNSIGNED | Foreign key to doctors.id |
| date | DATE | Visit date |
| reason | TEXT, NULL | Reason for visit |
| weight | VARCHAR(10), NULL | Patient weight |
| blood\_pressure | VARCHAR(10), NULL | Patient blood pressure |
| doctor\_comments | TEXT, NULL | Doctor comments |
| created\_at | DATETIME, NULL | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

# Prescription Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| appointment\_id | INT(11), UNSIGNED | Foreign key to appointments.id |
| created\_at | DATETIME, NOT NULL, default now() | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |

# Prescription\_Medicine Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| prescription\_id | INT(11), UNSIGNED | Foreign key to appointments.id |
| medicine\_name | VARCHAR(255) | To get the prescription name |
| frequency | VARCHAR(255) | To get the frequency of medicine to use daily |
| duration | VARCHAR(255) | To get the duration of how many days to take the medicine |
| instruction | TEXT | To provide the instructions to get the medicine |

**Doctor\_Availability Table**

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key to hospitals.id |
| doctor\_id | INT(11), UNSIGNED | Foreign key to doctors.id |
| day\_of\_week | ENUM('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday') | List of days to list the doctors availability |
| start\_time | DATETIME | Doctor availability starting time |
| end\_time | DATETIME | Doctor availability ending time |
| shift\_name | VARCHAR(50) | Availability Shift Name |
| is\_available | TINYINT  , default=1 | To check if doctors available or not |
| created\_at | DATETIME, NOT NULL,  default now() | Record creation timestamp |
| updated\_at | DATETIME, NULL | Record update timestamp |
| deleted\_at | DATETIME, NULL | Soft delete timestamp |

**API LIST**

Hospital Management System - Routes by Module

# Home Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | / | Home::index1 | Home page |

# Auth Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET, POST | auth/login | AuthController::login | User login |
| GET | logout | AuthController::logout | User logout |

# Patient Auth Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET, POST | patient/login | AuthController::Patient\_login | Patient login |
| POST | patient/verify-otp | AuthController::Patient\_verifyOtp | Verify patient OTP |
| GET | patient/logout | AuthController::Patient\_logout | Patient logout |
| GET, POST | patient/register | PatientController::create | Patient registration |

# Dashboards Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | dashboard | DashboardController::index | Admin dashboard |
| GET | doctor\_dashboard | DashboardController::doctor\_index | Data for Doctor dashboard |
| GET | patient/dashboard | DashboardController::patient\_index | Data for Patient dashboard |

# Users Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | users/ | UserController::index | List users |
| GET | users/create | UserController::create | Create new user |
| POST | users/store | UserController::store | Store new user |
| GET | users/edit/(:num) | UserController::edit/$1 | Edit user |
| POST | users/update/(:num) | UserController::update/$1 | Update user |
| GET | users/delete/(:num) | UserController::delete/$1 | Delete user |
| GET, POST | users/add\_from\_user/(:num) | DoctorController::adddoctor/$1 | Add doctor from user |
| GET | users/dashboard2/(:num) | UserController::index2/$1 | User dashboard |

# Doctors Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | doctors/ | DoctorController::listdoctor | List doctors |
| GET, POST | doctors/edit/(:num) | DoctorController::edit/$1 | Edit doctor |
| GET | doctors/delete/(:num) | DoctorController::delete/$1 | Delete doctor |
| GET | doctors/patients/(:num) | DoctorController::doctorPatient/$1 | List doctor's patients |
| GET | doctors/visit/(:num) | DoctorController::addVisit/$1 | Add visit for patient |
| POST | doctors/visit/save | DoctorController::saveVisit | Save visit data |
| GET | doctors/dashboard2/(:num) | DoctorController::index2/$1 | Doctor dashboard |
| GET | doctors/prescription/(:num) | PrescriptionController::patientPrescription/$1 | Patient prescriptions |
| GET | doctors/appointments/(:num) | AppointmentController::DoctorPatientAppointment/$1 | Doctor's patient appointments |
| POST | doctors/prescriptions/store | PrescriptionController::prescriptionStore | Store prescription |
| GET | doctors/prescriptions/(:num) | PrescriptionController::displayPrescription/$1 | Display prescription |
| POST | doctors/prescriptions/(:num) | PrescriptionController::update/$1 | Update prescription |
| GET | doctors/prescriptions/view/(:num) | PrescriptionController::displayOnlyPrescription/$1 | View only prescription |
| POST | doctors/prescriptions/(:num)/update | PrescriptionController::update/$1 | Update prescription |

# Patients Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | patients/ | PatientController::index | List patients |
| GET, POST | patients/create | PatientController::create | Create new patient |
| GET | patients/edit/(:num) | PatientController::edit/$1 | Edit patient |
| POST | patients/update/(:num) | PatientController::update/$1 | Update patient |
| GET | patients/delete/(:num) | PatientController::delete/$1 | Delete patient |
| GET | patients/appointments/reschedule/(:num) | PatientController::reschedule/$1 | Reschedule patient appointment |
| POST | patients/appointments/reschedule/(:num) | PatientController::saveReschedule/$1 | Save rescheduled patient appointment |
| GET | patients/appointments/update/(:num) | PatientController::UpdateAppointment/$1 | Update appointment |

# Appointments Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | appointments/ | AppointmentController::index | List all appointments |
| GET, POST | appointments/create | AppointmentController::create | Create appointment |
| GET | appointments/complete/(:num) | AppointmentController::markComplete/$1 | Mark appointment as complete |
| GET | appointments/cancel/(:num) | AppointmentController::markCancel/$1 | Cancel appointment |
| GET | appointments/export | AppointmentController::export | Export appointments |

# Availability Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | availability/ | DoctorAvailabilityController::index | Doctor availability list |
| POST | availability/store | DoctorAvailabilityController::store | Add doctor availability |
| POST | availability/toggle/(:num) | DoctorAvailabilityController::toggle/$1 | Toggle availability |

# API Routes

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **URL** | **Controller::Method** | **Description** |
| GET | Doctor/Api | ApiController::DoctorApi | Doctor API endpoint |
| GET | Doctor/Api/Excel | ApiController::doctorStatsTodayExcel | Doctor stats Excel download |