Hospital Management System - Migration Tables

# Hospitals Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| **id** | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary Key |
| name | VARCHAR(100) | Name of Hospital |
| address | text | Address of the Hospital |
| contact | VARCHAR(20) | Phone number |
| email | VARCHAR(50) | Email of the hospital |
| status | Enum(‘active’,’inactive’) | Status of hospital (active/inactive) |
| created\_at | datetime | Record creation datetime |
| updated\_at | datetime | Record updation datetime |
| deleted\_at | datetime | Record deletion datetime |

# Users Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key from hospitals.id |
| name | VARCHAR(100) | User name |
| email | VARCHAR(150), UNIQUE | User email |
| password | VARCHAR(255) | User password |
| role | ENUM("superadmin","admin","doctor","patient"), | User role |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

# Patients Table

|  |  |  |
| --- | --- | --- |
| **Column** | **Type** | **Description** |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| User\_id | INT(10) , UNSIGNED | Foreign key from users.id |
| **hospital\_id** | INT(10) , UNSIGNED | Foreign key from hospital.id |
| Age | INT(11) | Age of patient |
| gender | ENUM('male','female','other') | Patient gender |
| created\_by | INT(10) , UNSIGNED | User\_id of patient data created |
| updated\_by | INT(10) , UNSIGNED | User\_id of patient data updated |
| deleted\_by | INT(10) , UNSIGNED | User\_id of patient data deleted |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

# Doctors Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| User\_id | INT(11), UNSIGNED | Foreign key from users.id |
| hospital\_id | INT(11), UNSIGNED | Foreign key from hospitals.id |
| age | INT(10) | Age of doctor |
| gender | enum('male','female','other') | Gender of doctor |
| expertise | VARCHAR(150) | Doctor specialization |
| avaliability | VARCHAR(150) | Availability cheak of doctor |
| created\_by | INT(11), UNSIGNED | User\_id of doctor data created |
| updated\_by | INT(11), UNSIGNED | User\_id of doctor data updated |
| deleted\_by | INT(11), UNSIGNED | User\_id of doctor data deleted |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

# Appointments Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| hospital\_id | INT(11), UNSIGNED | Foreign key from hospitals.id |
| patient\_id | INT(11), UNSIGNED | Foreign key from patients.id |
| doctor\_id | INT(11), UNSIGNED | Foreign key from doctors.id |
| start\_datetime | DATETIME | Appointment start datetime |
| end\_datetime | DATETIME | Appointment end datetime |
| status | ENUM(pending,'Completed','Cancelled'), default=pending | Appointment status |
| created\_by | INT(11), UNSIGNED | User\_id of appointment created |
| updated\_by | INT(11), UNSIGNED | User\_id of appointment updated/rescheduled |
| deleted\_by | INT(11), UNSIGNED | User\_id of appointment deleted |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

# Visit\_history Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| appointment\_id | INT(11), UNSIGNED | Foreign key from appointments.id |
| patient\_id | INT(11), UNSIGNED | Foreign key from patients.id |
| doctor\_id | INT(11), UNSIGNED | Foreign key tfro doctors.id |
| reason | TEXT, NULL | Reason for visit |
| weight | Decimal(5,2) | Patient weight |
| blood\_pressure | VARCHAR(10), NULL | Patient blood pressure |
| doctor\_comments | TEXT, NULL | Doctor comments |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

# Prescription Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| id | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| **visit\_id** | INT(11), UNSIGNED | Foreign key from visit\_history.id |
| appointment\_id | INT(11), UNSIGNED | Foreign key from appointments.id |
| **doctor\_id** | INT(11), UNSIGNED | Foreign key from doctors.id |
| **patient\_id** | INT(11), UNSIGNED | Foreign key from patients.id |
| prescription\_text | TEXT | To add prescription to patient |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |

# Admins Table

|  |  |  |
| --- | --- | --- |
| Column | Type | Description |
| **id** | INT(11), UNSIGNED, AUTO\_INCREMENT | Primary key |
| **user\_id** | INT(11), UNSIGNED | Foreign key from user.id |
| **hospital\_id** | INT(11), UNSIGNED | Foreign key from hospital.id |
| created\_by | INT(11), UNSIGNED | User\_id of admin created |
| updated\_by | INT(11), UNSIGNED | User\_id of admin updated/rescheduled |
| deleted\_by | INT(11), UNSIGNED | User\_id of admin deleted |
| created\_at | TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | Record update timestamp |
| deleted\_at | TIMESTAMP | Soft delete timestamp |

## Authentication

All endpoints require user login (except /login and /register). Session Aythentication

## Auth APIs

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | / | AuthController::landing | Landing page |
| GET | /register | AuthController::register | Show registration form |
| POST | /auth/registerPost | AuthController::registerPost | Handle registration submission |
| GET | /login | AuthController::login | Show login form |
| POST | /auth/loginPost | AuthController::loginPost | Handle login submission |
| GET | /logout | AuthController::logout | Logout user |

## SuperAdmin - Dashboard & Profiles

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/dashboard | SuperAdminController::dashboard | SuperAdmin dashboard |
| GET | /superadmin/adminProfiles/(:num) | SuperAdminController::adminProfiles/$1 | View admin profile |
| GET | /superadmin/doctorProfile/(:num) | SuperAdminController::doctorProfile/$1 | View doctor profile |
| GET | /superadmin/patientProfile/(:num)/(:num) | SuperAdminController::patientProfile/$1/$2 | View patient profile with visit history |

## SuperAdmin - Hospitals

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/listHospitals | SuperAdminController::listHospitals | List all hospitals |
| GET | /superadmin/addHospital | SuperAdminController::addHospital | Show add hospital form |
| POST | /superadmin/saveHospital | SuperAdminController::saveHospital | Save new hospital |
| GET | /superadmin/editHospital/(:num) | SuperAdminController::editHospital/$1 | Edit hospital form |
| POST | /superadmin/updateHospital/(:num) | SuperAdminController::updateHospital/$1 | Update hospital |
| GET | /superadmin/deleteHospital/(:num) | SuperAdminController::deleteHospital/$1 | Delete hospital |
| GET | /superadmin/restoreHospital/(:num) | SuperAdminController::restoreHospital/$1 | Restore deleted hospital |
| GET | /superadmin/hospitalProfile/(:num) | SuperAdminController::hospitalProfile/$1 | View hospital profile |

## SuperAdmin - Admins

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/listAdmins | SuperAdminController::listAdmins | List all admins |
| GET | /superadmin/addAdmin/(:num) | SuperAdminController::addAdmin/$1 | Show add admin form |
| POST | /superadmin/saveAdmin/(:num) | SuperAdminController::saveAdmin/$1 | Save admin under hospital |
| GET | /superadmin/editAdmin/(:num) | SuperAdminController::editAdmin/$1 | Edit admin |
| POST | /superadmin/updateAdmin/(:num) | SuperAdminController::updateAdmin/$1 | Update admin details |
| GET | /superadmin/deleteAdmin/(:num) | SuperAdminController::deleteAdmin/$1 | Delete admin |

## SuperAdmin - Doctors

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/listDoctors/(:num) | SuperAdminController::listDoctors/$1 | List doctors of hospital |
| GET | /superadmin/addDoctor/(:num) | SuperAdminController::addDoctor/$1 | Show add doctor form |
| POST | /superadmin/saveDoctor/(:num) | SuperAdminController::saveDoctor/$1 | Save doctor info |
| GET | /superadmin/editDoctor/(:num) | SuperAdminController::editDoctor/$1 | Edit doctor info |
| POST | /superadmin/updateDoctor/(:num) | SuperAdminController::updateDoctor/$1 | Update doctor info |
| GET | /superadmin/deleteDoctor/(:num) | SuperAdminController::deleteDoctor/$1 | Delete doctor |

## SuperAdmin - Patients

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/listPatients/(:num) | SuperAdminController::listPatients/$1 | List patients of hospital |
| GET | /superadmin/addPatient/(:num) | SuperAdminController::addPatient/$1 | Show add patient form |
| POST | /superadmin/savePatient/(:num) | SuperAdminController::savePatient/$1 | Save patient |
| GET | /superadmin/editPatient/(:num) | SuperAdminController::editPatient/$1 | Edit patient info |
| POST | /superadmin/updatePatient/(:num) | SuperAdminController::updatePatient/$1 | Update patient info |
| GET | /superadmin/deletePatient/(:num) | SuperAdminController::deletePatient/$1 | Delete patient |

## SuperAdmin - Appointments & Visit Details

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/addAppointment/(:num) | SuperAdminController::addAppointment/$1 | Show add appointment form |
| POST | /superadmin/storeAppointment | SuperAdminController::storeAppointment | Save new appointment |
| GET | /superadmin/editAppointment/(:num) | SuperAdminController::editAppointment/$1 | Edit appointment |
| POST | /superadmin/updateAppointment/(:num) | SuperAdminController::updateAppointment/$1 | Update appointment |
| GET | /superadmin/cancelAppointment/(:num) | SuperAdminController::cancelAppointment/$1 | Cancel appointment |
| GET | /superadmin/markAppointmentDone/(:num) | SuperAdminController::markAppointmentDone/$1 | Mark appointment done |
| GET | /superadmin/rescheduleAppointment/(:num) | SuperAdminController::rescheduleAppointment/$1 | Show reschedule form |
| GET | /superadmin/addVisitDetails/(:num) | SuperAdminController::addVisitDetails/$1 | Show visit details form |
| POST | /superadmin/saveVisitDetails/(:num) | SuperAdminController::saveVisitDetails/$1 | Save visit details |
| GET | /admin/listAppointments | AdminController::listAppointments | List all appointments |
| GET/POST | /admin/addAppointment | AdminController::addAppointment | Add appointment |
| GET/POST | /admin/editAppointment/(:num) | AdminController::editAppointment/$1 | Edit appointment |
| GET | /admin/deleteAppointment/(:num) | AdminController::deleteAppointment/$1 | Delete appointment |
| GET | /doctor/viewAppointment/(:num) | DoctorController::viewAppointment/$1 | View appointment |

## SuperAdmin - Prescriptions

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /superadmin/addPrescription/(:num) | SuperAdminController::addPrescription/$1 | Show add prescription form |
| POST | /superadmin/savePrescription | SuperAdminController::savePrescription | Save prescription |
| GET | /superadmin/viewPrescription/(:num) | SuperAdminController::viewPrescription/$1 | View prescription |
| GET | /superadmin/downloadPrescription/(:num) | SuperAdminController::downloadPrescription/$1 | Download prescription PDF |
| GET | /patient/downloadPrescription/(:num) | PatientController::downloadPrescription/$1 | Download prescription |

## Admin APIs

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /admin/dashboard | AdminController::dashboard | Admin dashboard |
| GET | /admin/listDoctors | AdminController::listDoctors | List all doctors |
| GET/POST | /admin/addDoctor | AdminController::addDoctor | Add doctor (form + submit) |
| GET/POST | /admin/editDoctor/(:num) | AdminController::editDoctor/$1 | Edit doctor |
| GET | /admin/deleteDoctor/(:num) | AdminController::deleteDoctor/$1 | Delete doctor |
| GET | /admin/listPatients | AdminController::listPatients | List all patients |
| GET/POST | /admin/addPatient | AdminController::addPatient | Add patient |
| GET/POST | /admin/editPatient/(:num) | AdminController::editPatient/$1 | Edit patient |
| GET | /admin/deletePatient/(:num) | AdminController::deletePatient/$1 | Delete patient |
| GET | /admin/listAppointments | AdminController::listAppointments | List all appointments |
| GET/POST | /admin/addAppointment | AdminController::addAppointment | Add appointment |
| GET/POST | /admin/editAppointment/(:num) | AdminController::editAppointment/$1 | Edit appointment |
| GET | /admin/deleteAppointment/(:num) | AdminController::deleteAppointment/$1 | Delete appointment |

## Doctor APIs

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /doctor/dashboard | DoctorController::dashboard | Doctor dashboard |
| GET | /doctor/patients | DoctorController::patients | List assigned patients |
| GET | /doctor/addPatient | DoctorController::addPatient | Show add patient form |
| POST | /doctor/savePatient | DoctorController::savePatient | Save new patient |
| GET | /doctor/editPatient/(:num) | DoctorController::editPatient/$1 | Edit patient info |
| POST | /doctor/updatePatient/(:num) | DoctorController::updatePatient/$1 | Update patient info |
| GET | /doctor/appointments | DoctorController::appointments | List appointments |
| GET | /doctor/appointment/(:num) | DoctorController::appointment/$1 | View appointment details |
| GET | /doctor/viewAppointment/(:num) | DoctorController::viewAppointment/$1 | View appointment |
| POST | /doctor/addVisit/(:num) | DoctorController::addVisit/$1 | Add visit details |

## Patient APIs

|  |  |  |  |
| --- | --- | --- | --- |
| Method | URL | Controller-Method | Description |
| GET | /patient/dashboard | PatientController::dashboard | Patient dashboard |
| GET | /patient/downloadPrescription/(:num) | PatientController::downloadPrescription/$1 | Download prescription |