

Doctor Appointment Booking

Primary Objective

- To book appointment with doctor for a particular patient.
- The appointment is booked based on the availability of doctor.
- And the patient receives an confirmation.

Modules

- Admin
- Hospital
- Doctor
- Patient
- Appointment

Packages

- Com.abs.model
- Com.abs.controller
- Com.abs.service
- Com.abs.Dao
- Com.abs.Exceptions
- Com.abs.Validation
- Com.abs.sequenceGenerator

ADMIN

Com.abs.admin.model

Admin.java [POJO Class]

- Username
- Password
- Mobile
- Email id
 - getters()
 - setters()

Com.abs.admin.Controller

AdminController [Controller]

- Login-**Mapping**
- Login()
- Login - **View**

- CheckLogin-**Mapping**
- checkLogin()
- SuccessLogin-**View**
- FailureLogin-**View**

- updateAdmin-**Mapping**
- updateLogin()
- updateSuccess-**view**
- updateFailure-**view**

- AddDoctor- **Mapping**
- AddDoctor()
- ApproveDoctor-**view**

- deleteDoctor- **Mapping**
- deleteDoctor()
- deleteDoctor-**view**

- viewDoctor-**Mapping**
- viewDoctor()
- DoctorsDetails-**view**

- viewPatient- **Mapping**
- viewPatient()
- patientsDetails-**view**

- viewAppointment- **Mapping**
- viewAppointment()
- AppointmentDetails-**view**

Com.abs.admin.Service

LoginService-[Interface]

- checkLogin()
- updateAdmin()
- viewDoctor()
- AddDoctor()
- RemoveDoctor()
- viewPatient()
- viewAppointment()

LoginServiceImpl-[class implements LoginService]

- checkLogin()
- updateAdmin()
- viewDoctor()
- AddDoctor()
- RemoveDoctor()

- viewPatient()
- viewAppointment()

com.abs.admin.Dao

AdminDao-[Interface extends JpaRepository]

com.abs.admin.exception

GlobalExceptionHandler-[class]

EmptyInputException-[class extends RuntimeException]

com.abs.admin.validations

AdminValidationHandler-[class extends ReponseEntityExceptionHandler]

Doctor

Com.abs.doctor.model

Doctor-[POJO class]

- Username
- Password
- Doctor Name
- Doctor-ID
- Doctor Mobile-no
- Doctor Email-id
- Major
- Experience
 - getters()
 - setters()

Com.abs.doctor.service

DoctorService-Interface

- DoctorLogin()
- DoctorSignUp()
- viewDoctor()
- updateDoctor()
- deleteDoctor()

DoctorServiceImpl-[class implements DoctorService]

- DoctorLogin()
- DoctorSignup()
- viewDoctors()
- updateDoctor()
- deleteDoctor()

com.abs.doctor.Controller

DoctorController-[Controller]

- DoctorSignup-**Mapping**
- DoctorSignup()
- DoctorSignup-**view**

- DoctorLogin-**Mapping**
- DoctorLogin()
- DoctorLogin-**view**

- Doctor-**Mapping**
- Doctor()
- OperationsOnDoctor-**view**

- viewDoctor-**Mapping**
 - viewDoctors()
 - DoctorsDetails-**view**
-
- updateDoctor-**Mapping**
 - updateDoctors()
 - updatedDoctorDetails-**view**
-
- deleteDoctor-**Mapping**
 - deleteDoctors()
 - deletedDoctors-**view**

com.abs.doctor.Dao

DoctorDao-[Interface extends Jpa Repository]

com.abs.doctor.exception

GlobalExceptionHandler-[class]

EmptyInputException-[class extends RuntimeException]

com.abs.doctor.validations

DoctorValidationHandler-[class extends ReponseEntityExceptionHandler]

com.abs.doctor.sequenceGenerator

doctorIDSequenceGenerator-[class extends SequenceStyleGenerator]

PATIENT

Com.abs.patient.model

Patient-[POJO class]

- Username
- Password
- Patient Name
- Patient Token-no
- Patient Mobile-no
- Patient Email-id
- Gender
- Age
- Reason
 - getters()
 - setters()

com.abs.patient.Service

PatientService-[Interface]

- PatientLogin()
- PatientSignUp()
- viewPatient()
- updatePatient()
- deletePatient()
- viewAppointment()
- bookAppointment()

PatientServiceImpl-[class implements PatientService]

- PatientLogin()
- PatientSignUp()
- viewPatients()
- updatePatient()
- deletePatient()
- bookAppointment()
- viewAppointment()

com.abs.patient.controller

PatientsController-[Controller]

- PatientSignup-**Mapping**
- PatientSignup()
- PatientSignup-**view**

- PatientLogin-**Mapping**
- PatientLogin()
- PatientLogin-**view**

- Patients-**Mapping**
- Patients()
- OperationsOnPatients-**view**

- viewPatients-**Mapping**
- viewPatients()
- PatientsDetails-**view**

- updatePatients-**Mapping**
- updatePatients()
- updatedPatientsDetails –**view**
- deletePatients-**Mapping**
- deletePatients()
- deletedPatients-**view**
- viewAppointment-**Mapping**
- viewAppointment()
- viewAppointment-**view**
- bookAppointment-**Mapping**
- bookAppointment()
- bookAppointment-**view**

com.abs.patient.Dao

PatientsDao-[Interface extends JpaRepository]

com.abs.patient.exception

GlobalExceptionHandler-[class]

EmptyInputException-[class extends RuntimeException]

com.abs.patient.validations

patientValidationHandler-[class extends ReponseEntityExceptionHandler]

com.abs.doctor.sequenceGenerator

patientIDSequenceGenerator-[class extends SequenceStyleGenerator]

APPOINTMENT

com.abs.Appointment.model

Appointment-[class]

- date
- slot
- patientTokenNo
- doctorId
 - getters()
 - setters()

com.abs.Appointment.service

AppointmentService-[Interface]

- BookAppointment()
- ViewAppointments()

AppointmentServiceImpl-[class implements AppointmentService]

- BookAppointment()
- ViewAppointment()

com.abs.Appointment.controller

AppointmentController-[controller]

- Appointment-**Mapping**
- Appointment()
- AppointmentPage-**view**

- viewAppointments-**Mapping**
- viewAppointments()
- viewAppointments-**view**

- BookAppointment-**Mapping**
- BookAppointment()
- BookAppointment-**view**

com.abs.Appointment.Dao

AppointmentDao-[Interface extends JpaRepository]

com.abs.Appointment.exception

GlobalExceptionHandler-[class]

MultipleSlotbookingException-[class extends RuntimeException]

com.abs.Appointment.validations

AppointmentValidationHandler-[class extends ResponseEntityExceptionHandler]

com.abs.doctor.sequenceGenerator

AppointmentIDSequenceGenerator-[class extends SequenceStyleGenerator]

Hospital

com.abs.hospital.model

Hospital-[POJO class]

- DoctorList
- PatientList
- AppointmentList
 - getters()
 - setters()

com.abs.hospital.service

HospitalService-[Interface]

- viewDoctors()
- viewPatients()
- ViewAppointments()

HospitalServiceImpl-[class implements HospitalService]

- viewDoctors()
- viewPatients()
- ViewAppointments()

com.abs.hospital.controller

HospitalController-[controller]

- Hospital-**Mapping**
- Hospital()
- HospitalHome-**view**

- viewAppointments-**Mapping**
- viewAppointments()

- viewAppointmentslist-**view**
- viewdoctors-**Mapping**
- viewdoctors()
- viewdoctorslist-**view**
- viewpatients-**Mapping**
- viewpatients()
- viewpatientslist-**view**

com.abs.hospital.Dao

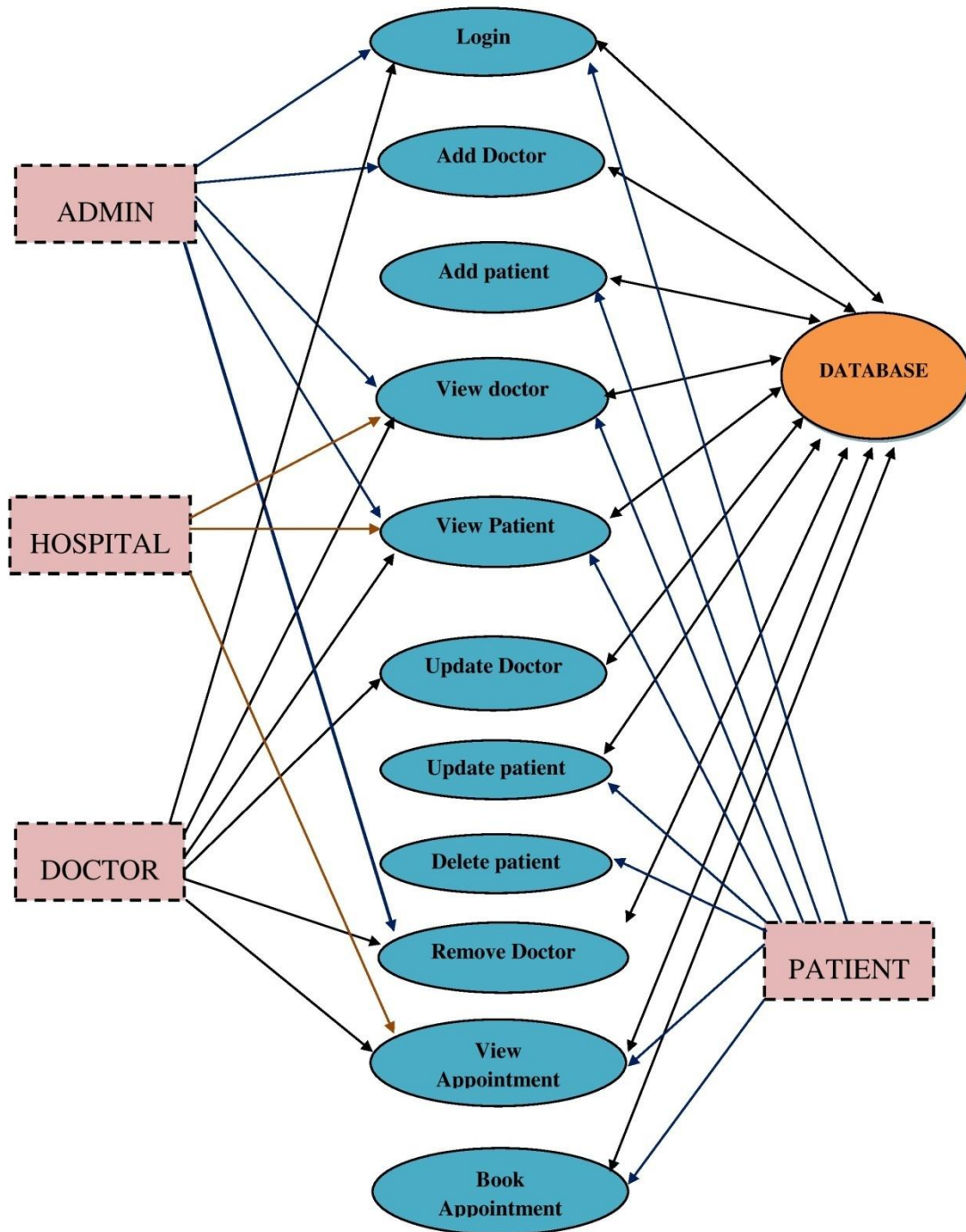
HospitalDao-[Interface extends JpaRepository]

com.abs.hospital.exception

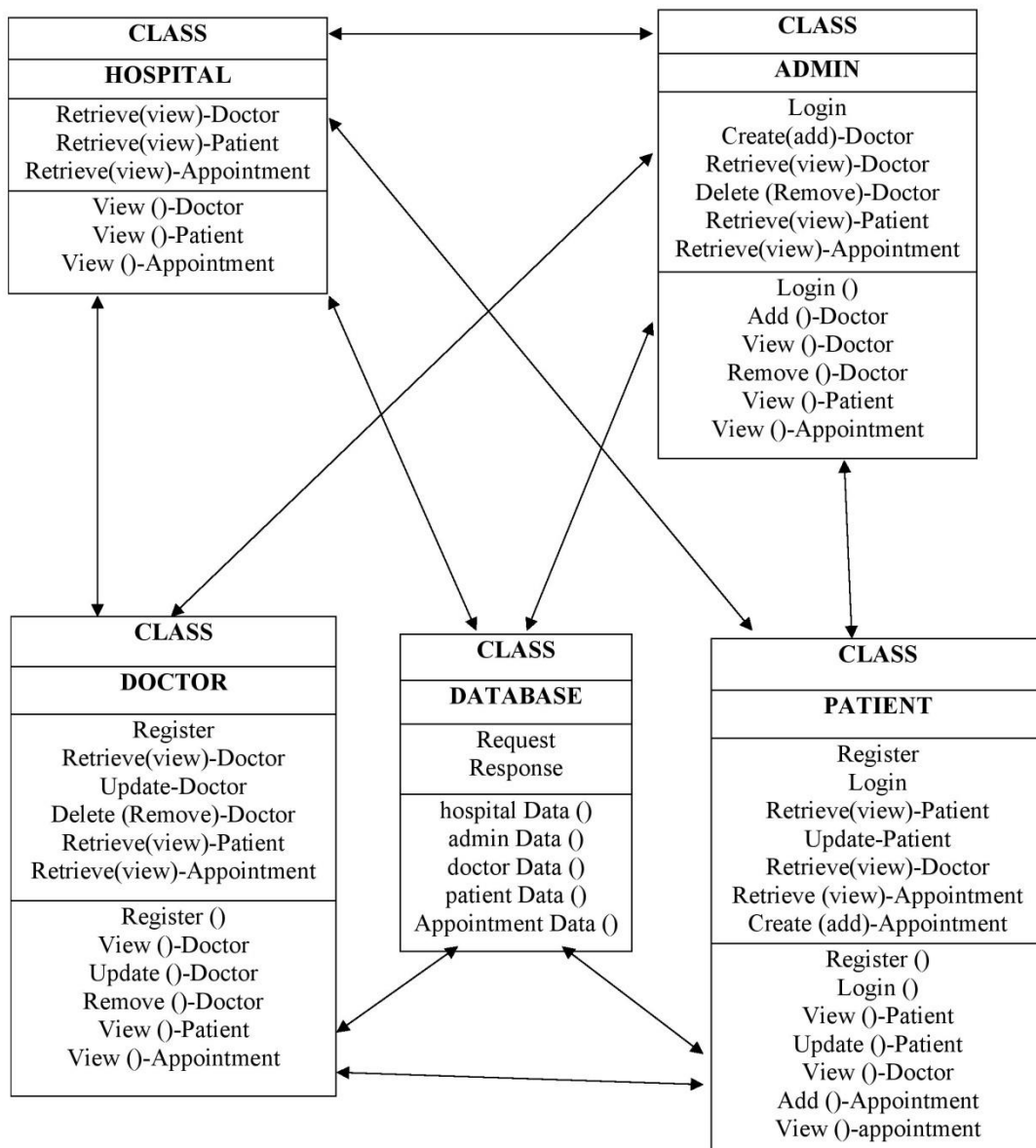
GlobalExceptionHandler-[class]

EmptyInputException-[class extends RuntimeException]

Use Case Diagram



CLASS DIAGRAM



Sequence Diagram

