Hospital Management System [Class Diagram]

Admin
- admin_id
- admin_username
- admin_password
- createProfiles ()
- editProfiles ()
- deleteProfiles ()
- updateDoctorSchedules ()

manage
1..*   *

Person
- name
- birthDate
- gender
- address
- phone
- emailAddress

Staff
- staff_username
- staff_password
- joined_date
- qualifications

Patient
- patient_id
- patient_name
- patient_age
- patient_username
- patient_password
- createPatientProfiles ()
- editPatientProfile ()
- bookAppointment ()
- viewPrescriptionsAndReports ()
- viewResourceAvailability ()

Doctor
- doctor_id
- doctor_specialization
- doctor_schedule
- approveAppointment ()
- checkAppointments ()
- editPrescriptions ()

Pharmacist
- pharmacist_id
- viewPrescriptions ()
- issueMedicines ()

Technician
- technician_id
- conductTests ()
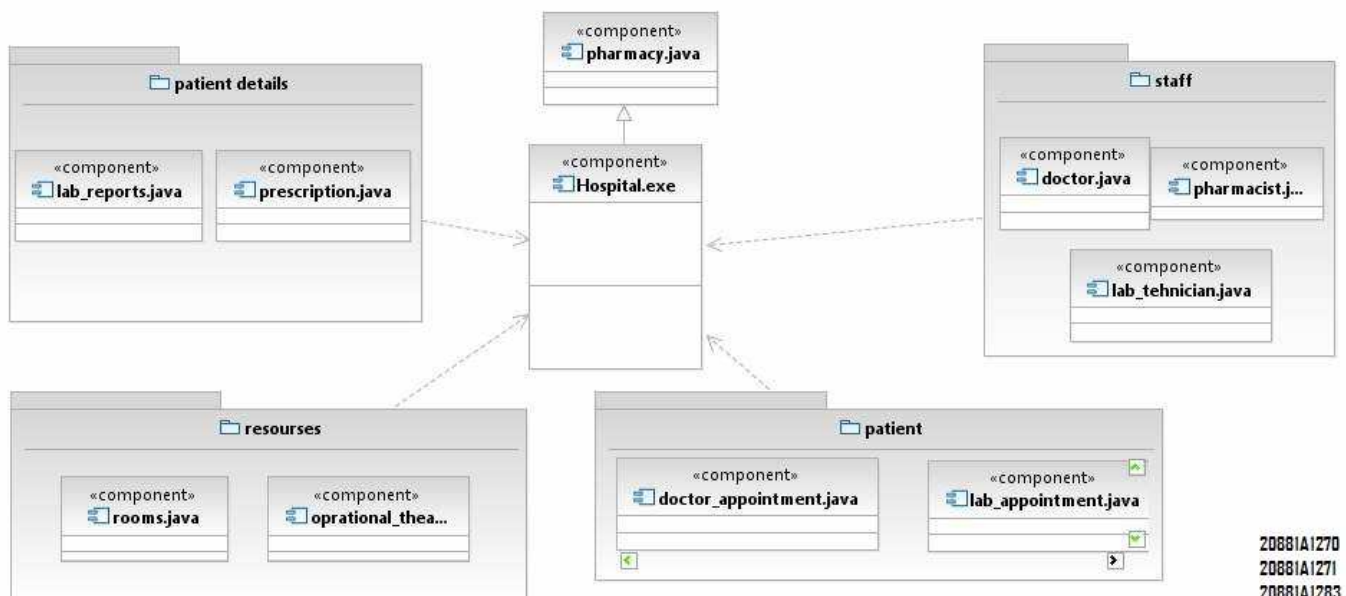
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Hospital Management System [Collaboration Diagram]

HMS_Collaboratio

- Pharmacist:pharmacist:
- Patient:patient:
- Application:application:
- LabTechnician:labTechnician:
- Doctor:doctor:

1: Book Appointment
2: Appointment Request
3: Approve Appointment
4: Appointment Booked
5: Consult
6: Upload Test Prescriptions
7: Access Prescriptions
8: Take Tests
9: Upload Test Results
10: Access Text Results
11: Uplaod Prescription
12: Access Prescription
13: Send Medicine
14: Make Payment
15: Accept Payment

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Hospital Management System [Component Diagram]

«component»
pharmacy.java

patient details

«component»
lab_reports.java

«component»
prescription.java

«component»
Hospital.exe

staff

«component»
doctor.java

«component»
pharmacist.j...

«component»
lab_tehnician.java

resourses

«component»
rooms.java

«component»
oprational_thea...

patient

«component»
doctor_appointment.java

«component»
lab_appointment.java

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Hospital Management System [Deployment Diagram]
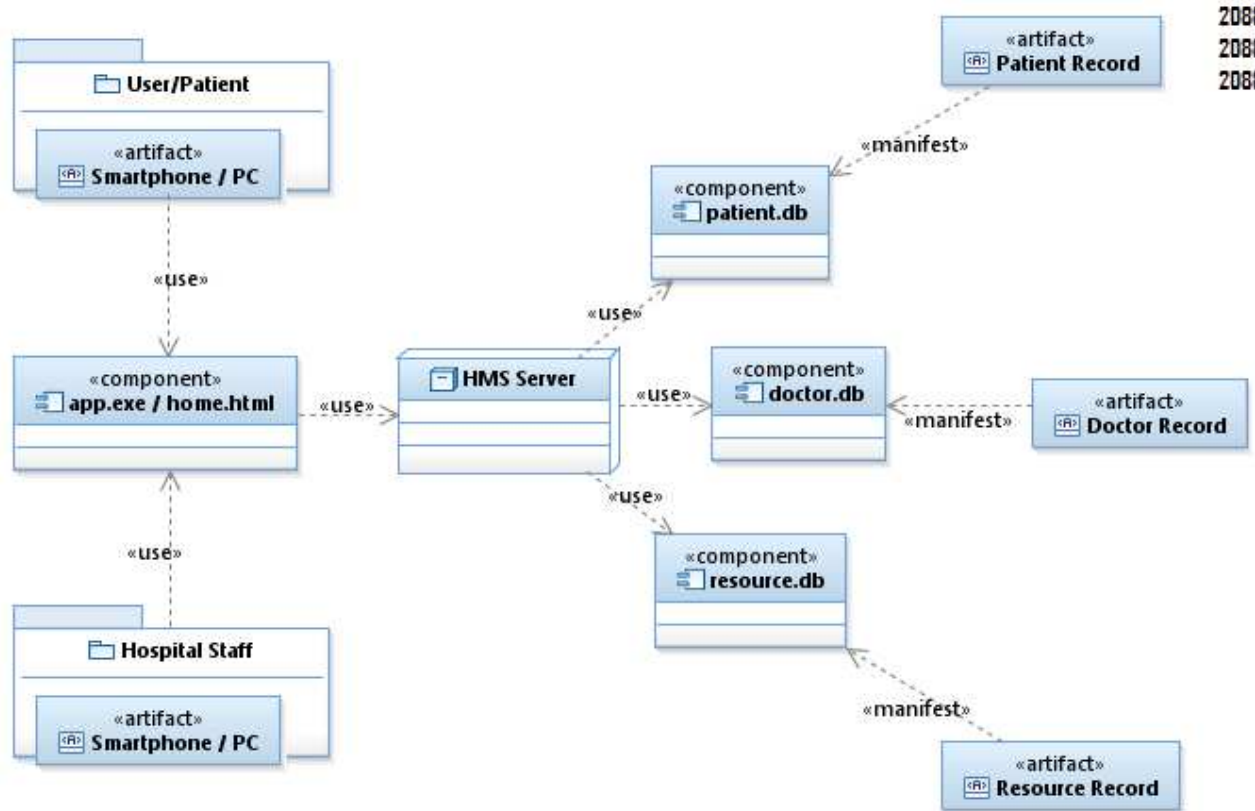
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StaffInstance : Staff
- staff_username
- staff_password
- joined_date
- qualifications

AdminInstance : Admin
- admin_id
- admin_username
- admin_password

PatientInstance : Patient
- patient_id
- patient_name
- patient_age
- patient_username
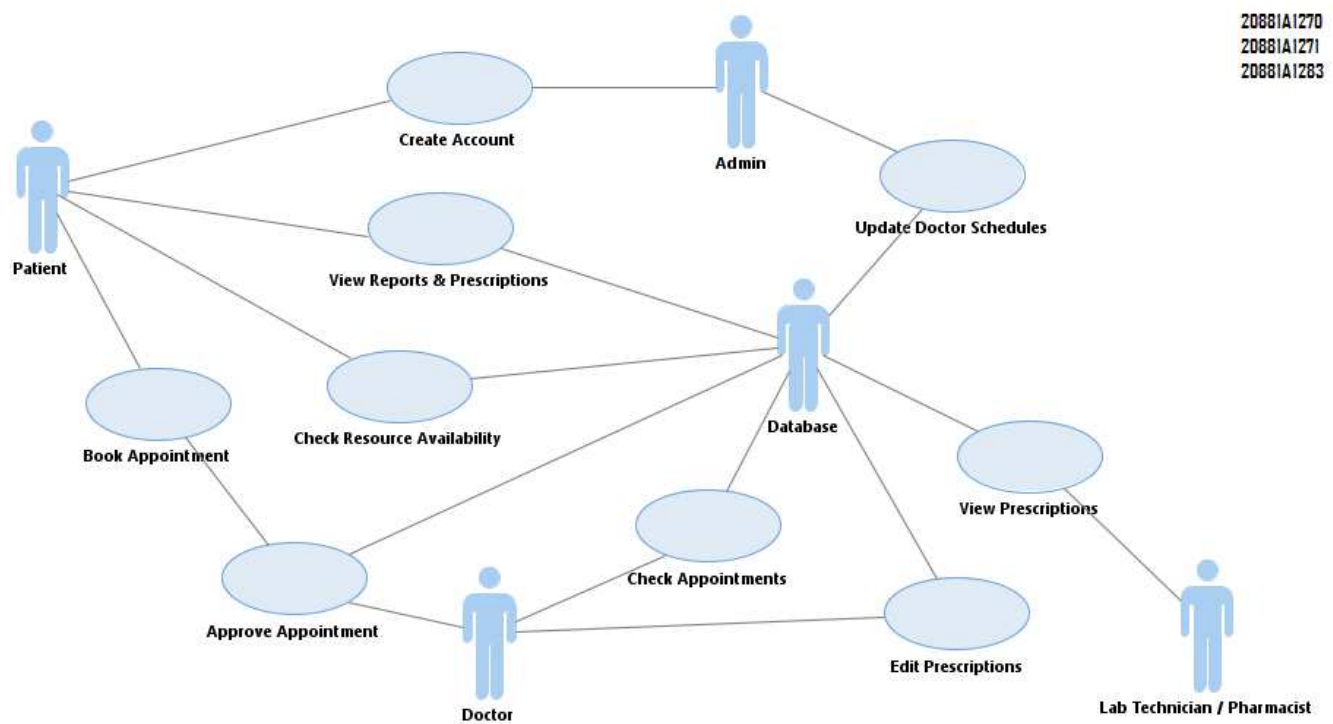- patient_password

Manages

Interact
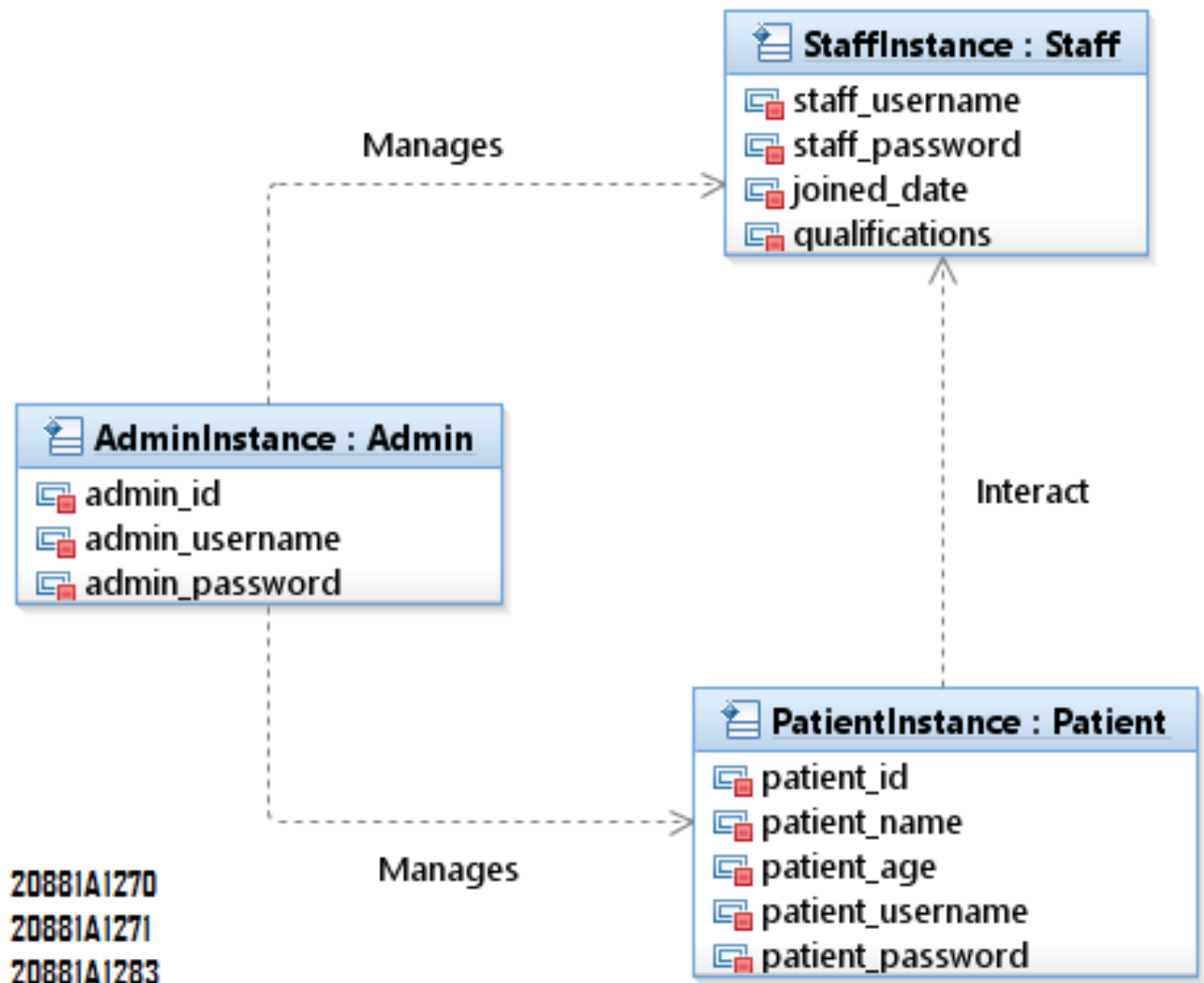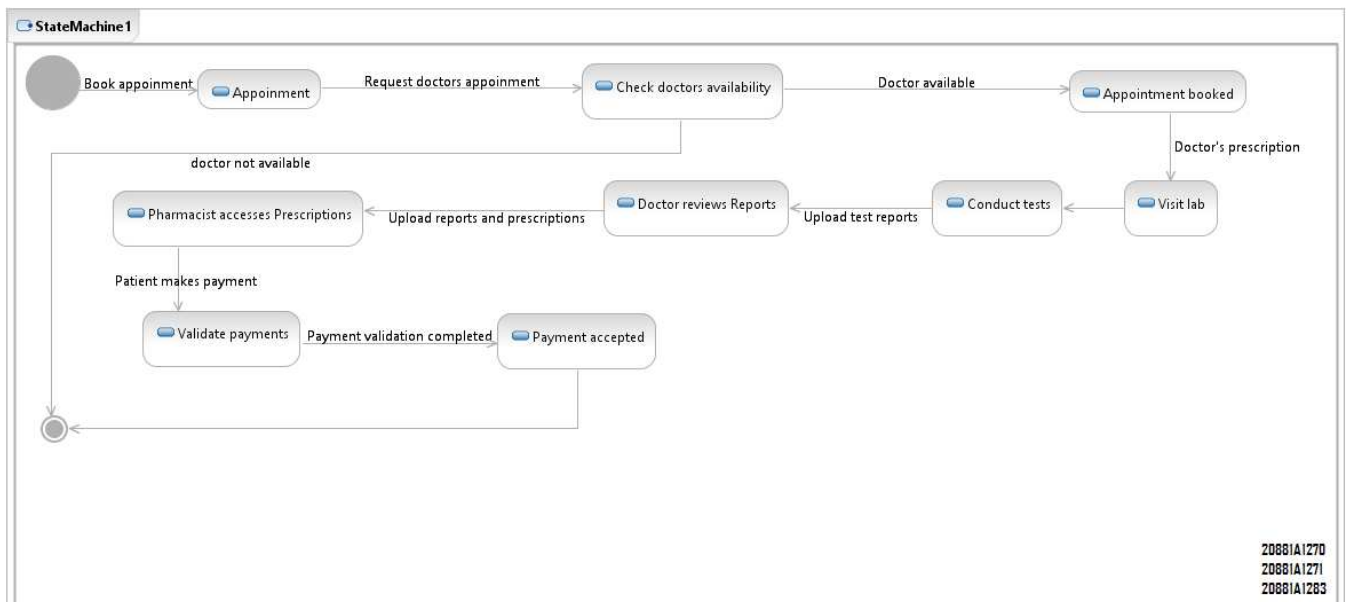
Manages

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Hospital Management System [Object Diagram]
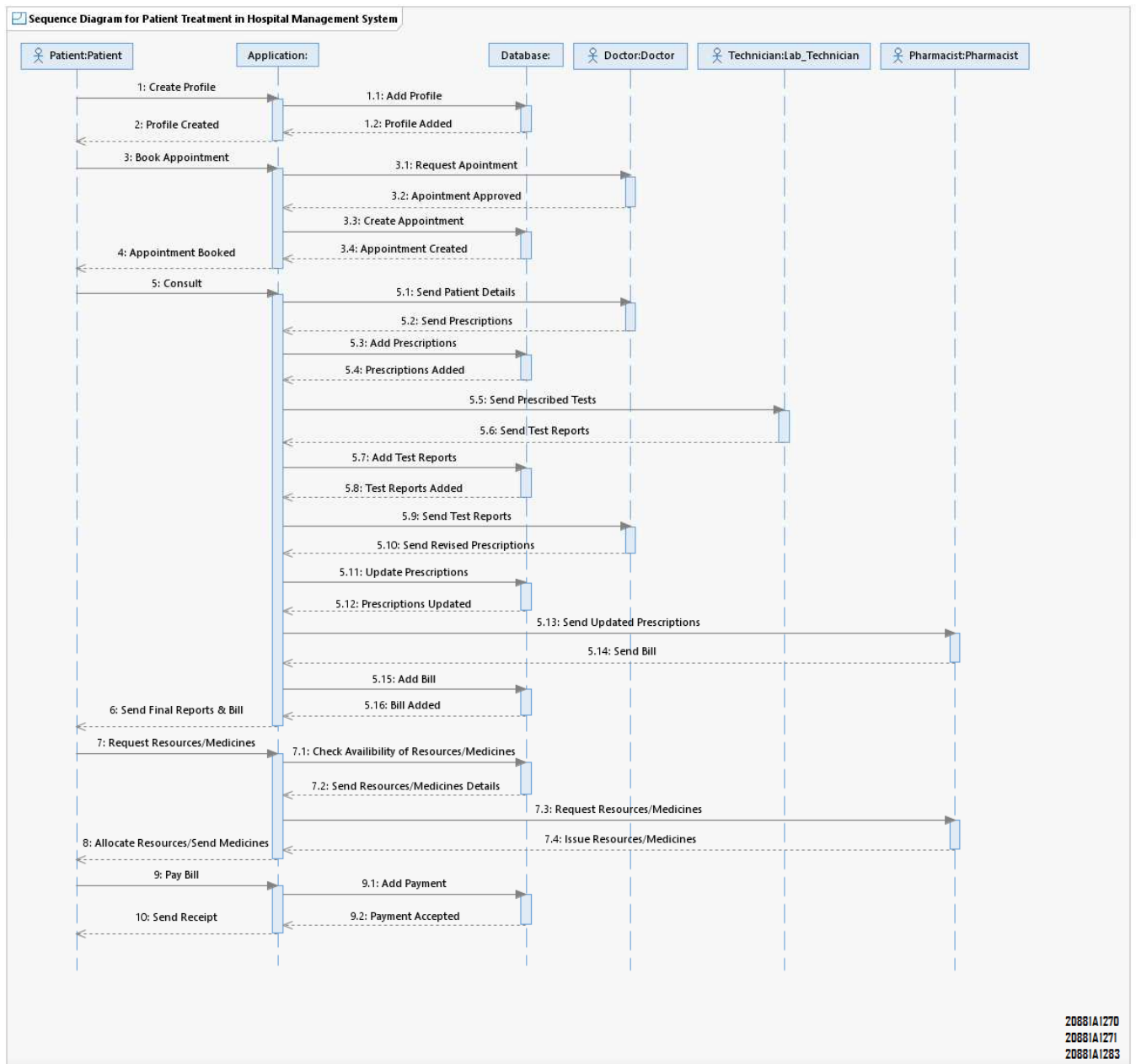
Hospital Management System [Sequence Diagram]

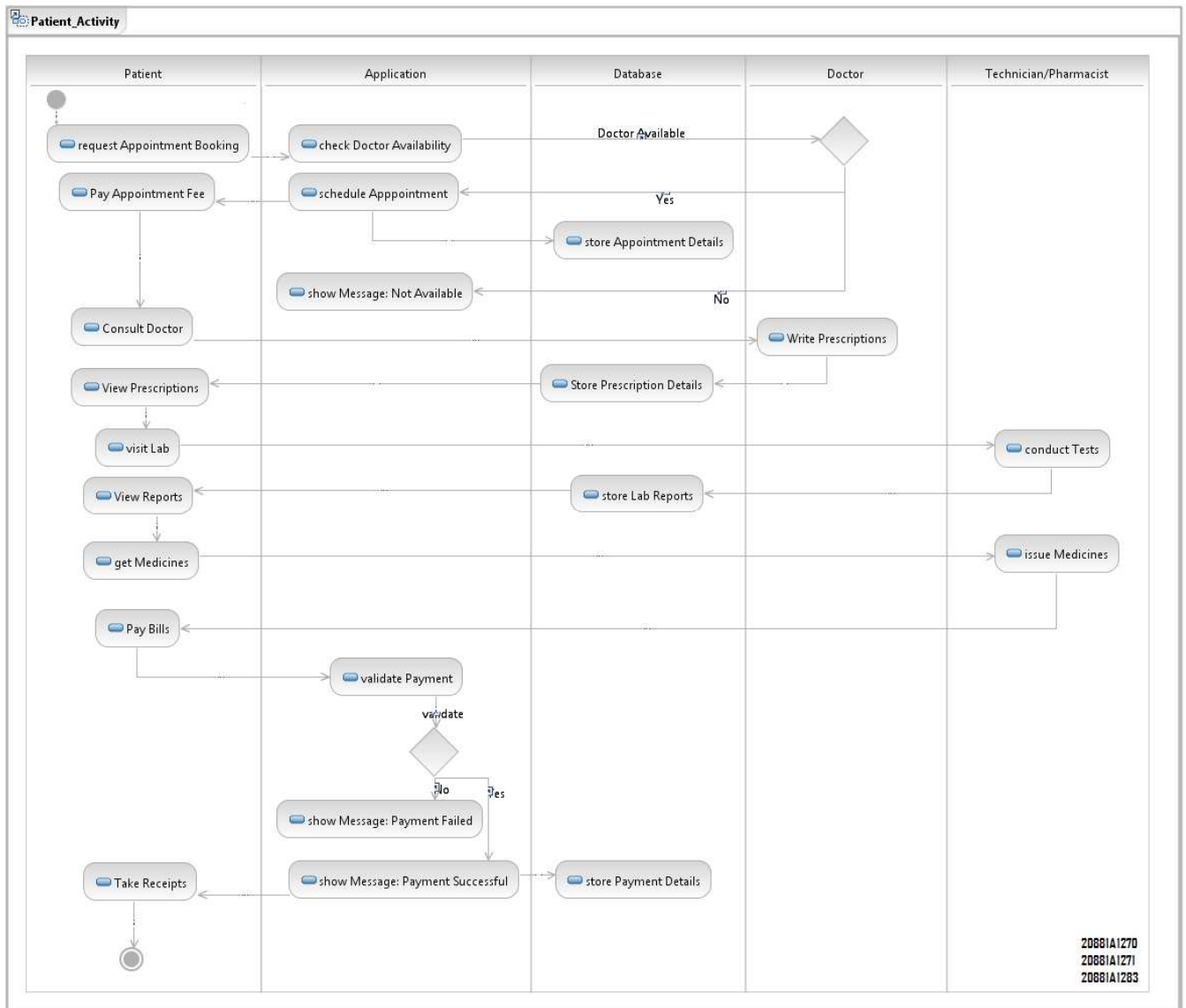Hospital Management System [Use Case Diagram]

StateMachine1

Book appoinment → Appoinment → (Request doctors appoinment) → Check doctors availability → (Doctor available) → Appointment booked

doctor not available

Pharmacist accesses Prescriptions ← (Upload reports and prescriptions) ← Doctor reviews Reports ← (Upload test reports) ← Conduct tests ← Visit lab ← (Doctor's prescription)

Patient makes payment

Validate payments → (Payment validation completed) → Payment accepted

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Hospital Management System [State Machine Diagram]

Hospital Management System [Activity Diagram]