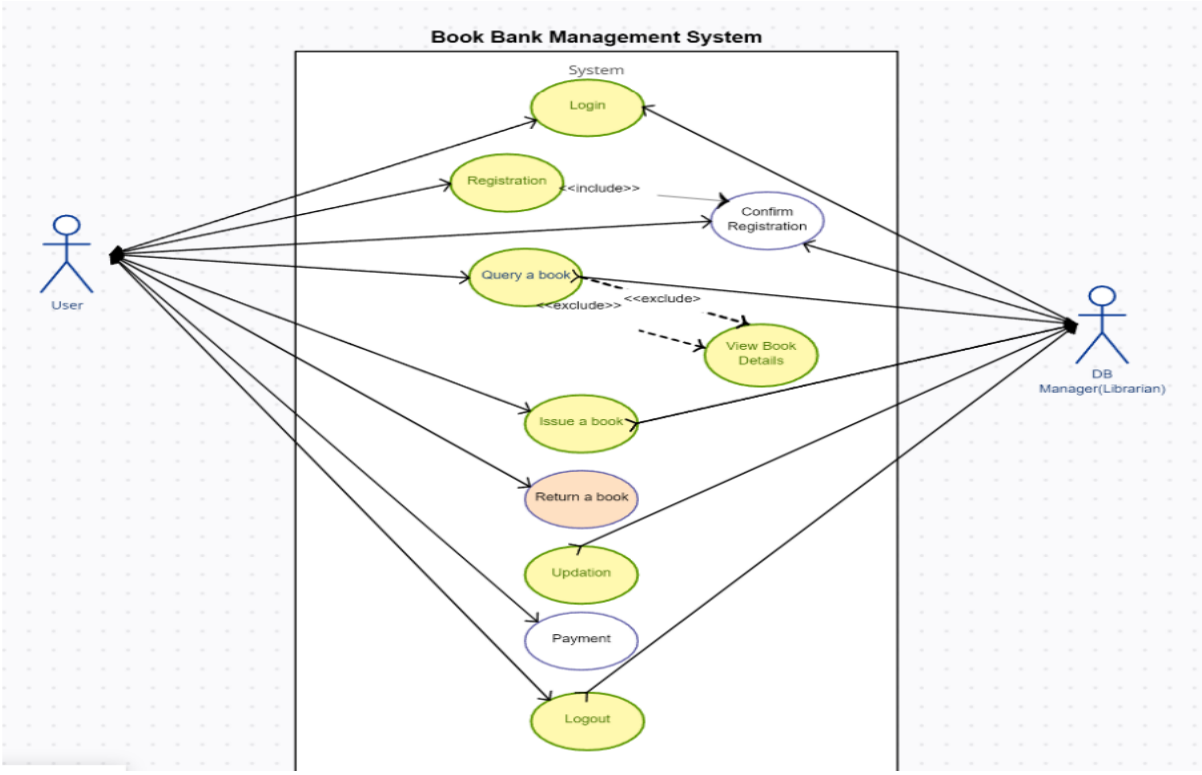
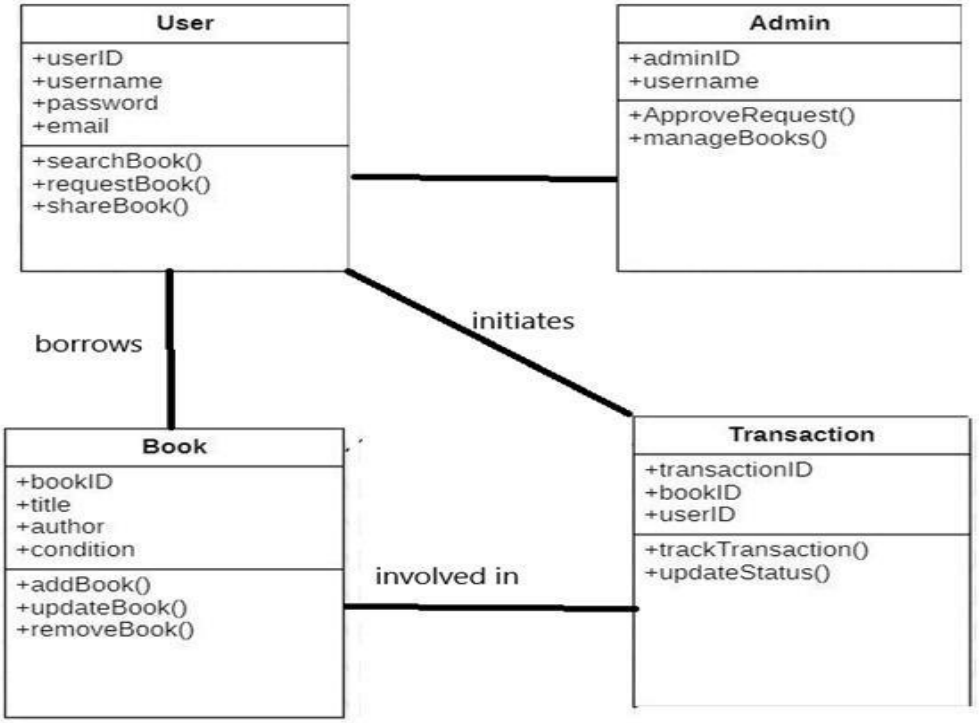
Book Bank:

Use case:



Class:



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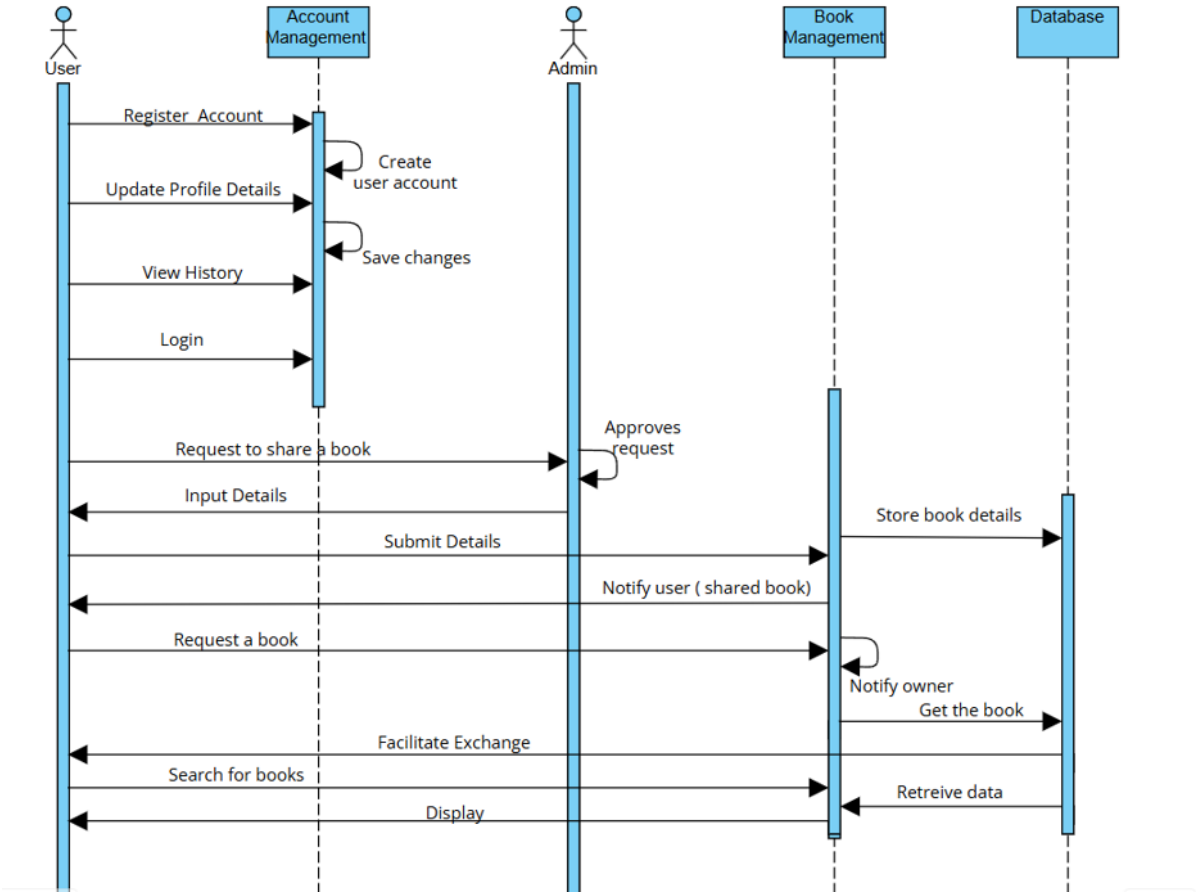

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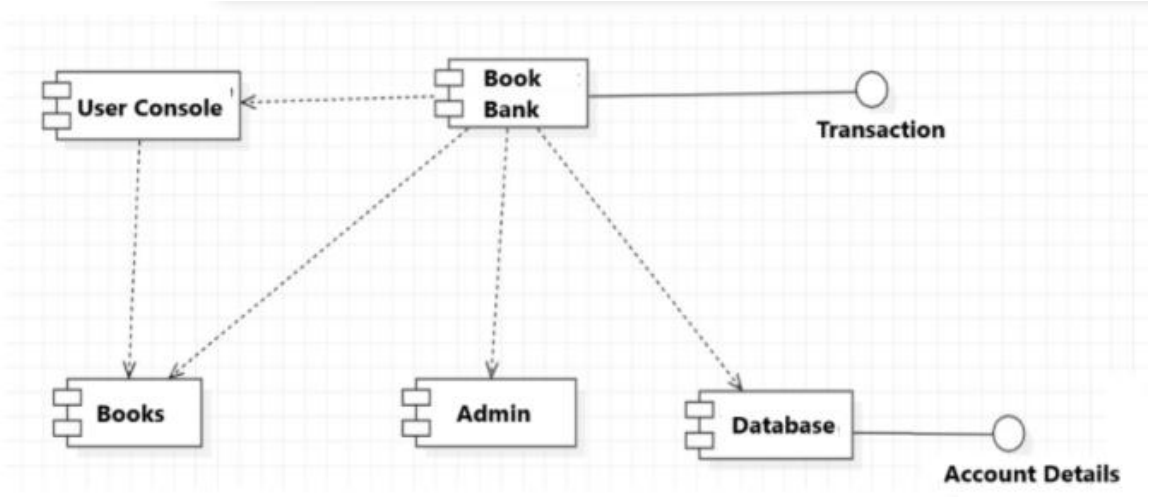
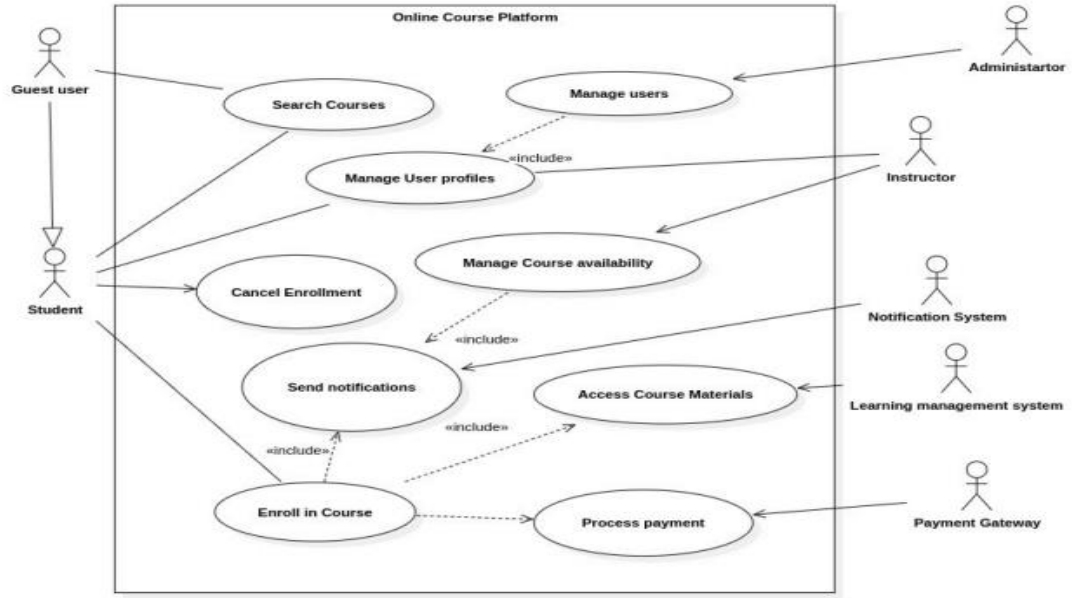


2.Online Course Reservation System:

Use case:



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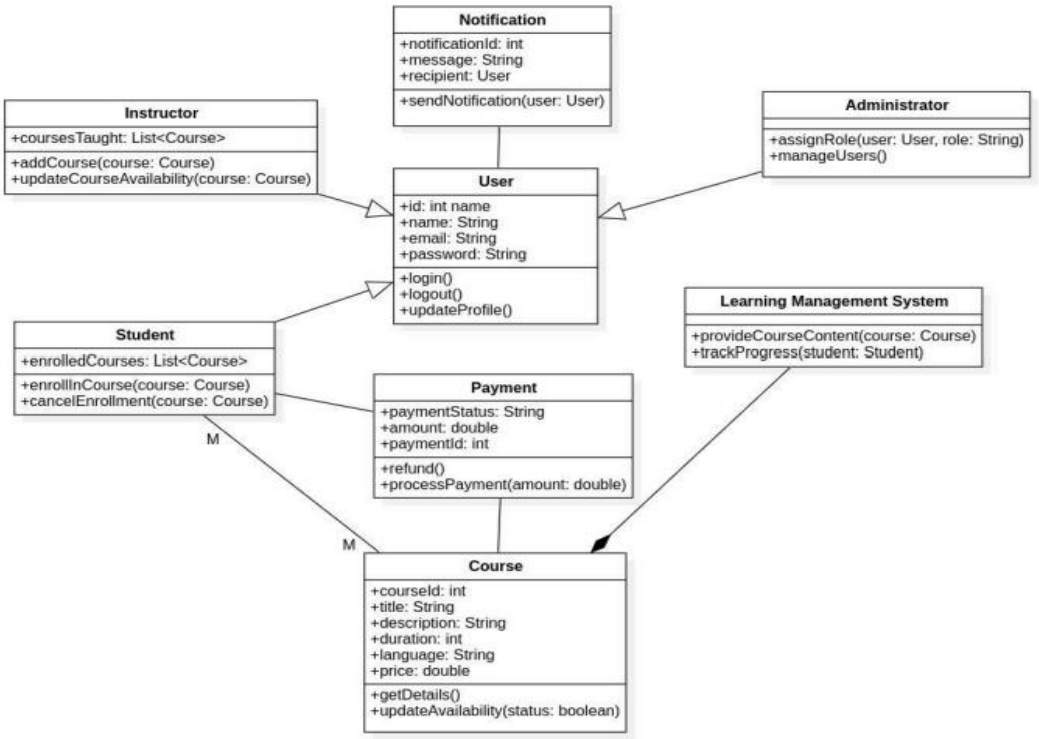

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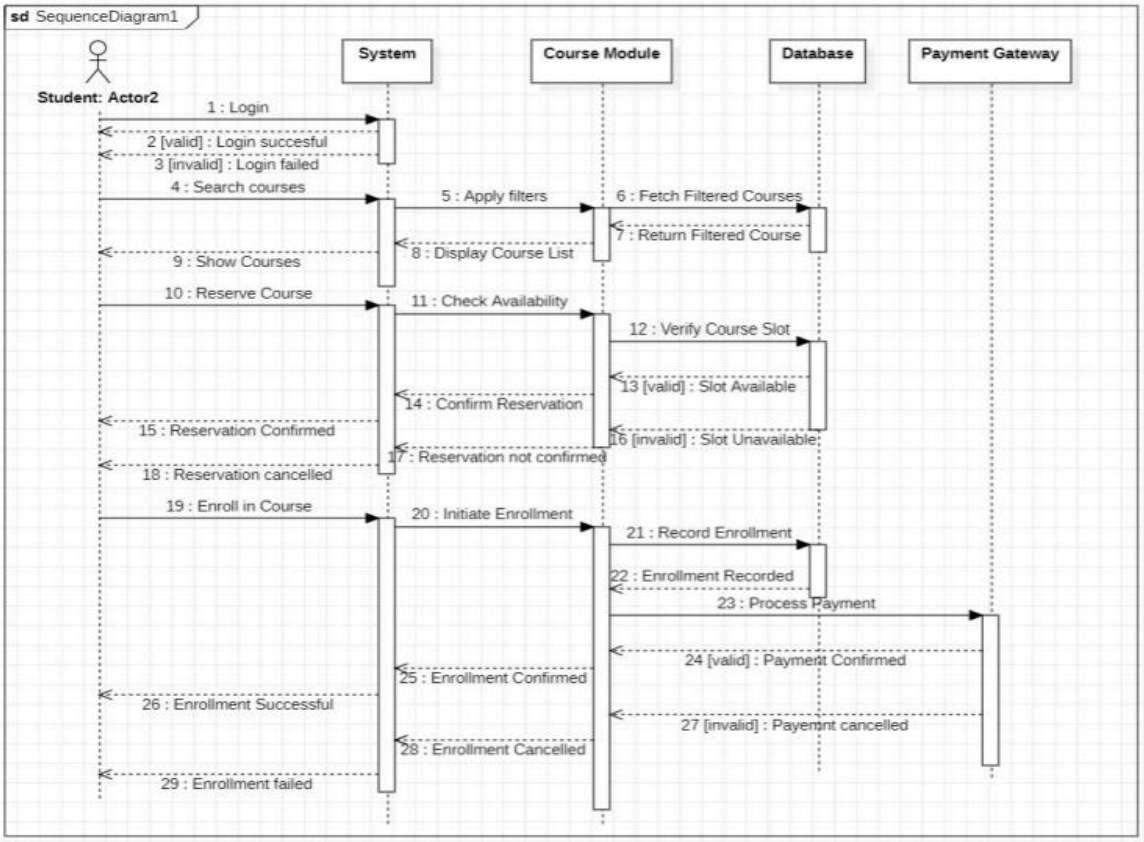

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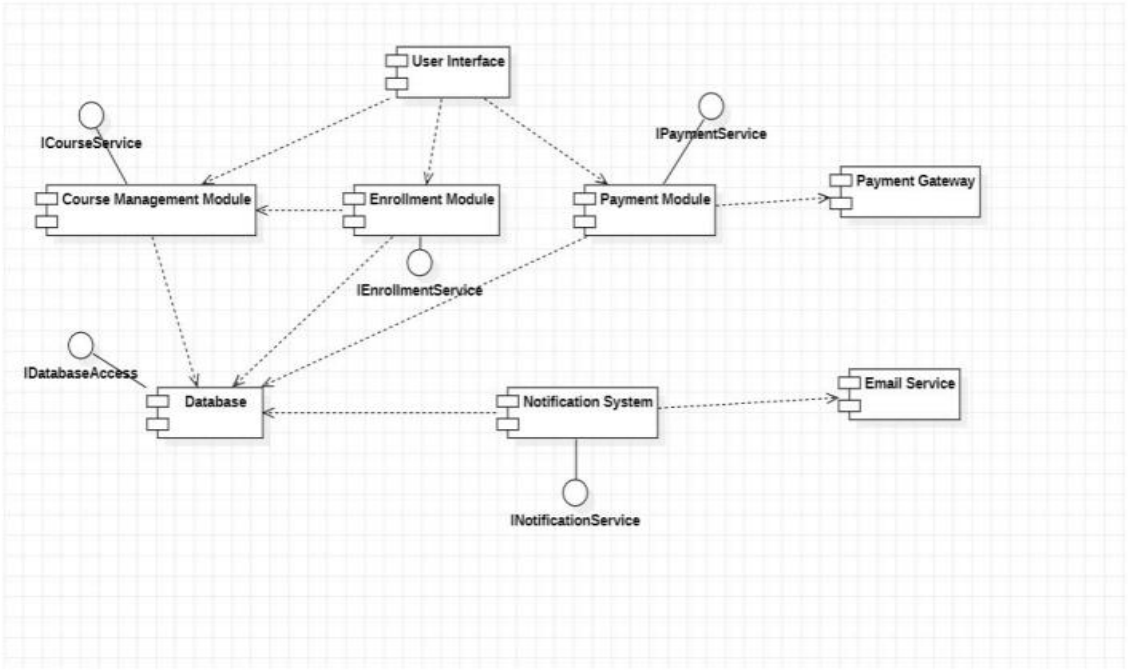
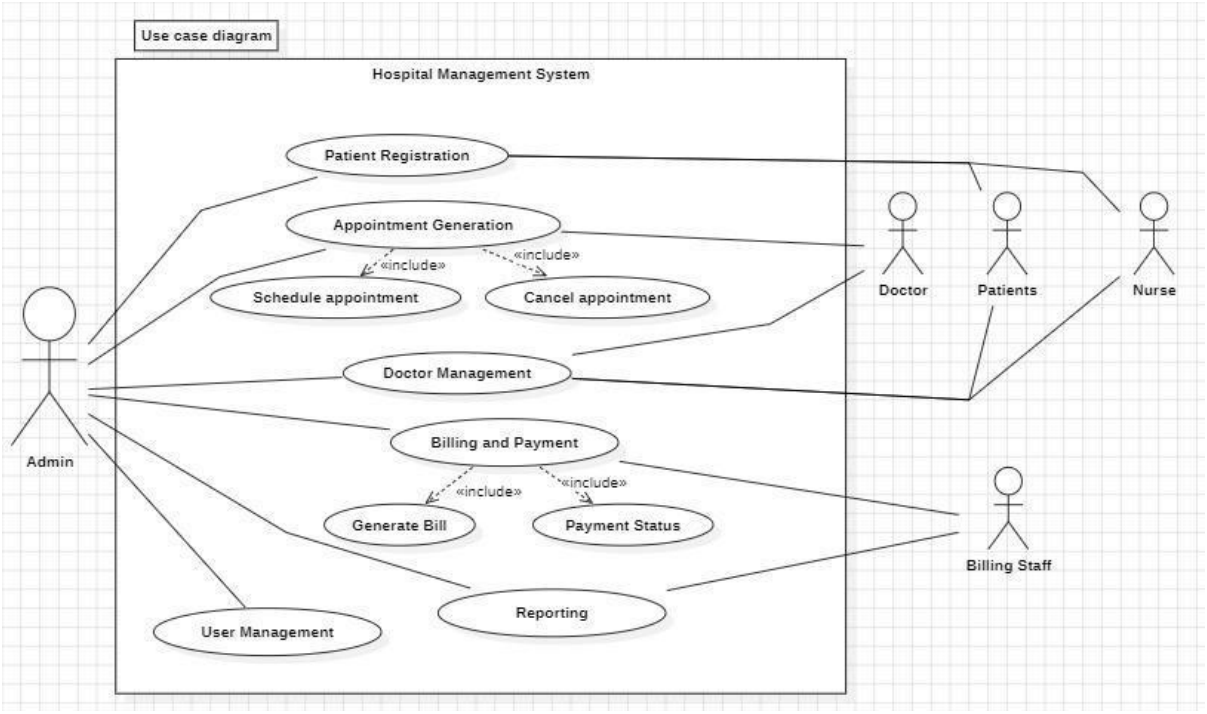


3.Hospital Management System:

Use case:



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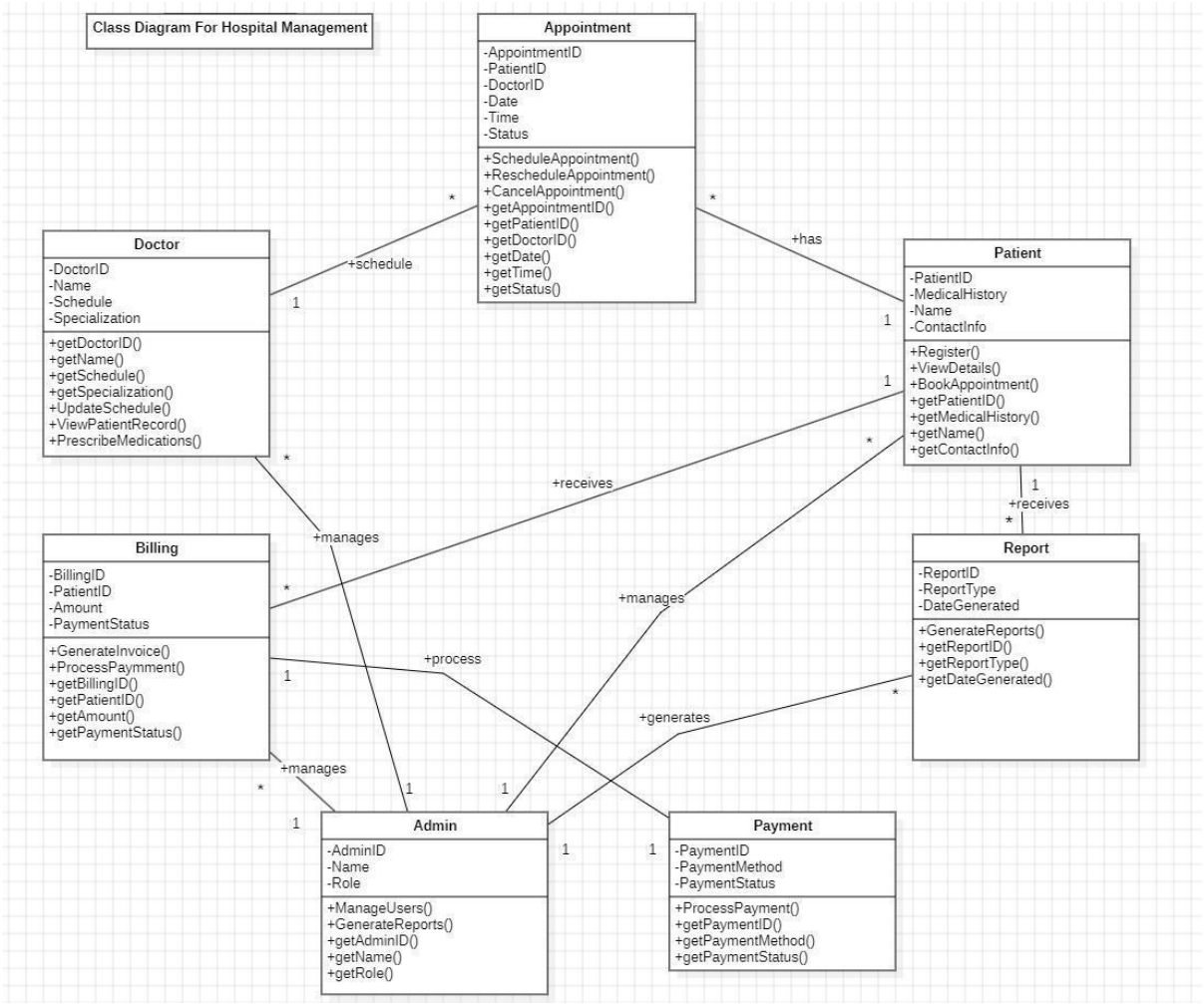
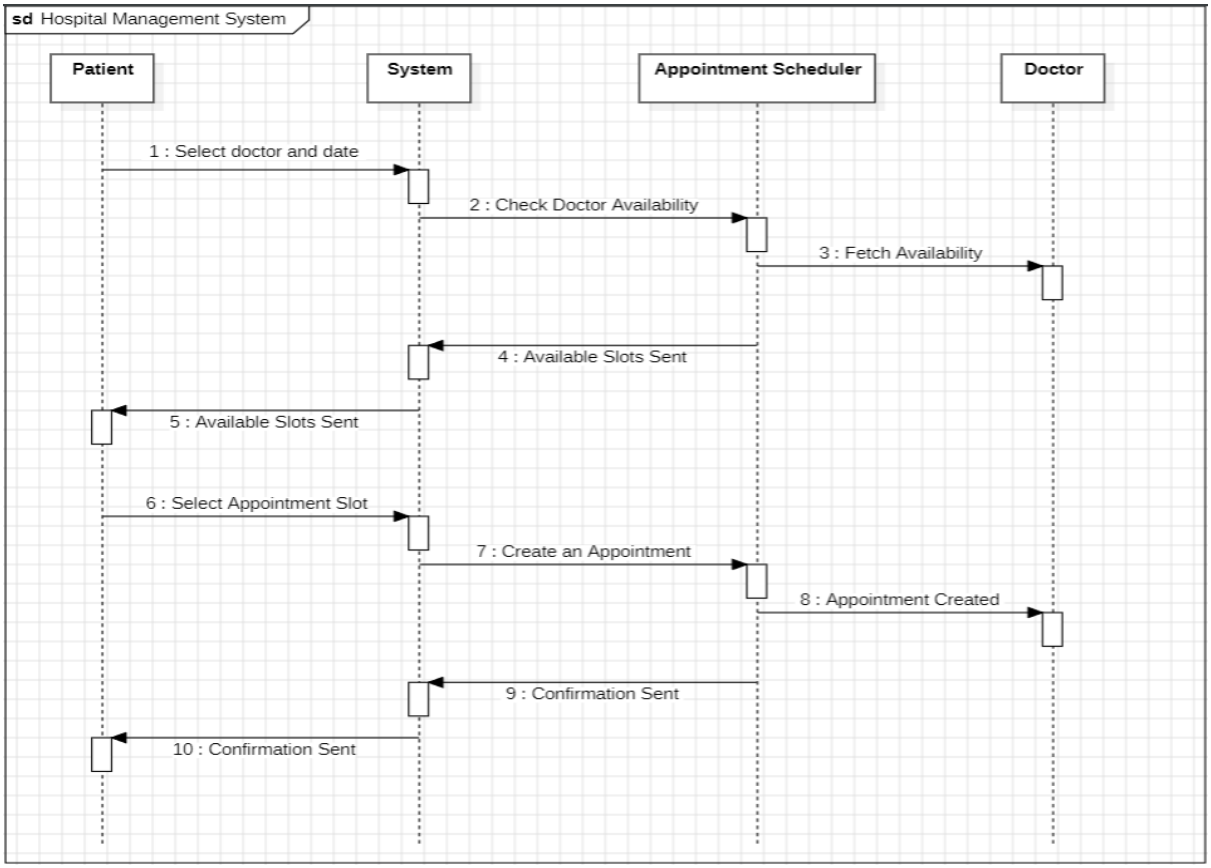
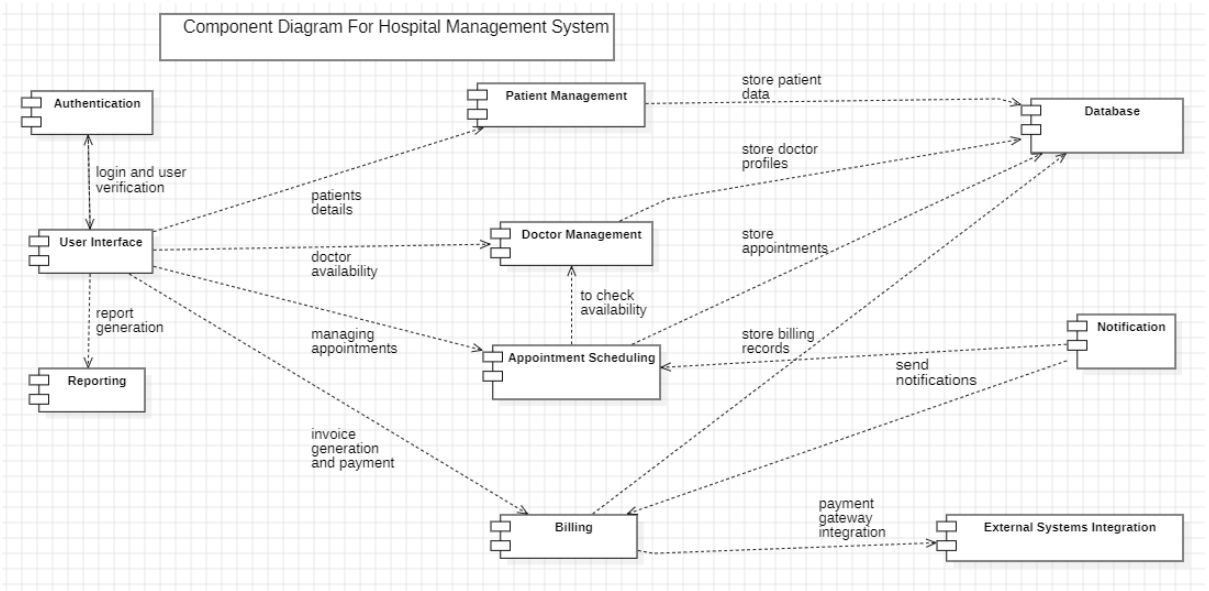

Class Diagram For Hospital Management
Appointment
-AppointmentID
-PatientID
-DoctorID
-Date
-Time
-Status
+ScheduleAppointment()
+RescheduleAppointment()
+CancelAppointment()
+getAppointmentID()
+getPatientID()
+getDoctorID()
+getDate()
+getTime()
+getStatus()
Doctor
-DoctorID
-Name
-Schedule
-Specialization
+getDoctorID()
+getName()
+getSchedule()
+getSpecialization()
+UpdateSchedule()
+ViewPatientRecord()
+PrescribeMedications()
Patient
-PatientID
-MedicalHistory
-Name
-ContactInfo
+Register()
+ViewDetails()
+BookAppointment()
+getPatientID()
+getMedicalHistory()
+getName()
+getContactInfo()
Billing
-BillingID
-PatientID
-Amount
-PaymentStatus
+GenerateInvoice()
+ProcessPaymment()
+getBillingID()
+getPatientID()
+getAmount()
+getPaymentStatus()
Report
-ReportID
-ReportType
-DateGenerated
+GenerateReports()
+getReportID()
+getReportType()
+getDateGenerated()
Admin
-AdminID
-Name
-Role
+ManageUsers()
+GenerateReports()
+getAdminID()
+getName()
+getRole()
Payment
-PaymentID
-PaymentMethod
-PaymentStatus
+ProcessPayment()
+getPaymentID()
+getPaymentMethod()
+getPaymentStatus()
+schedule
+has
+receives
+manages
+process
+generates
1
*

Sequence:



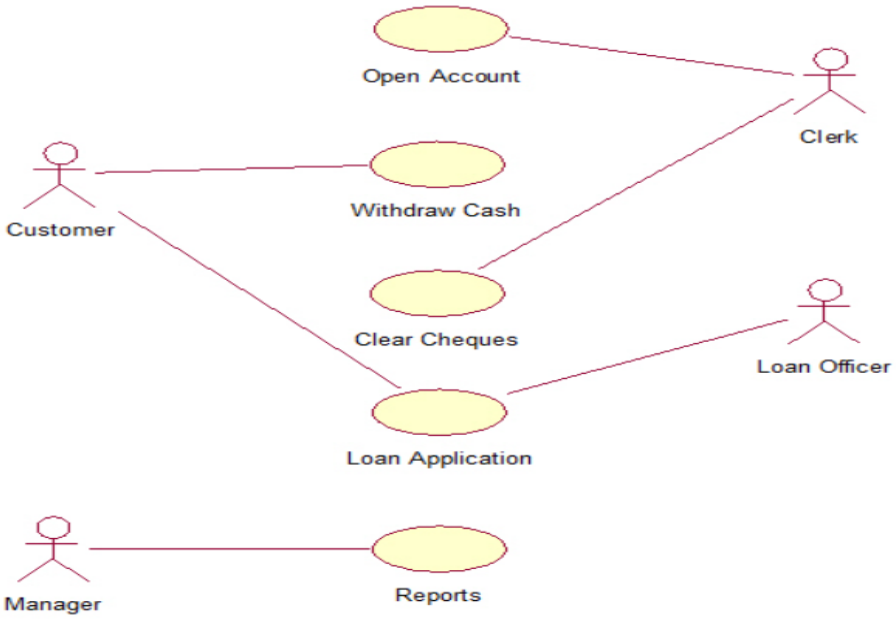
Component:



4. Online Banking System

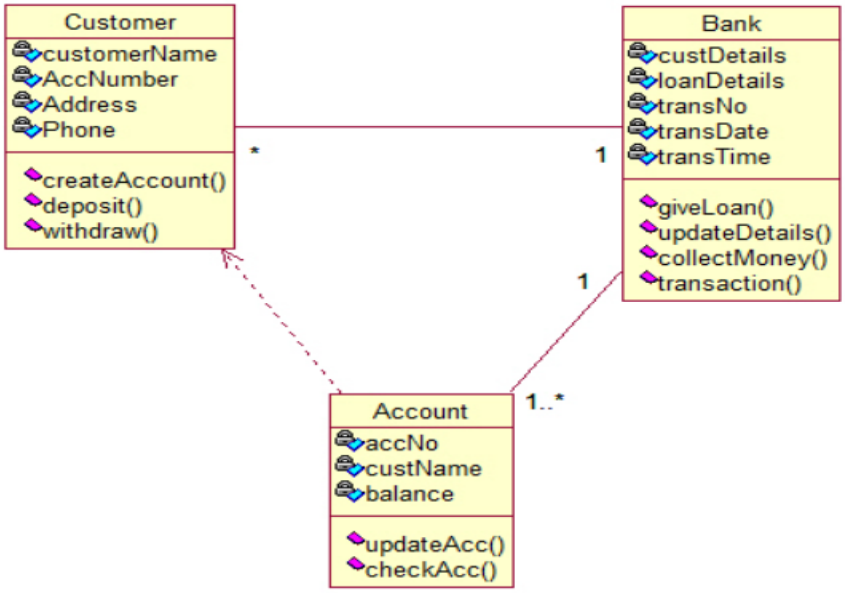
Use case:

Use Case Diagram



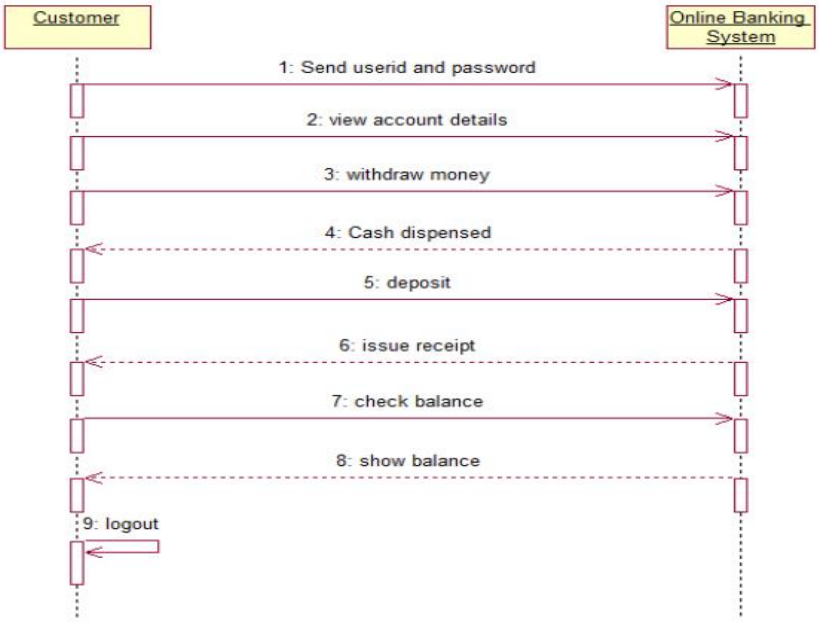
Class:

Class Diagram



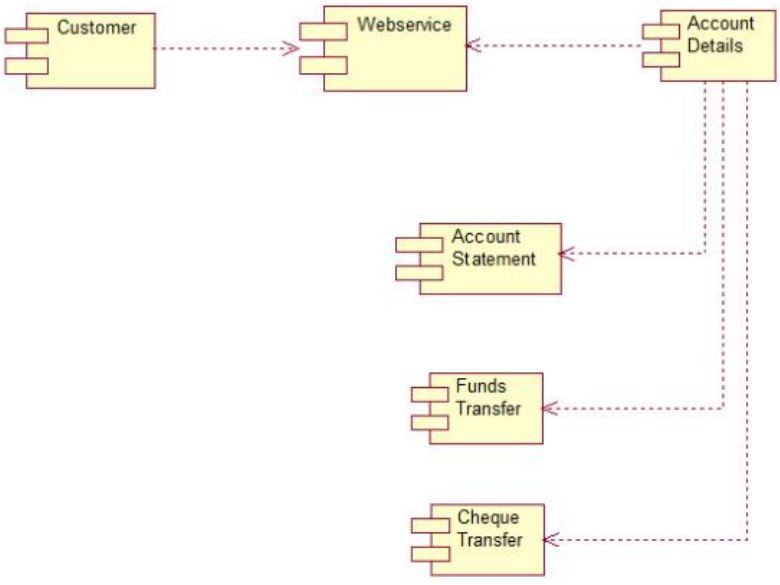
Sequence:

Sequence Diagram



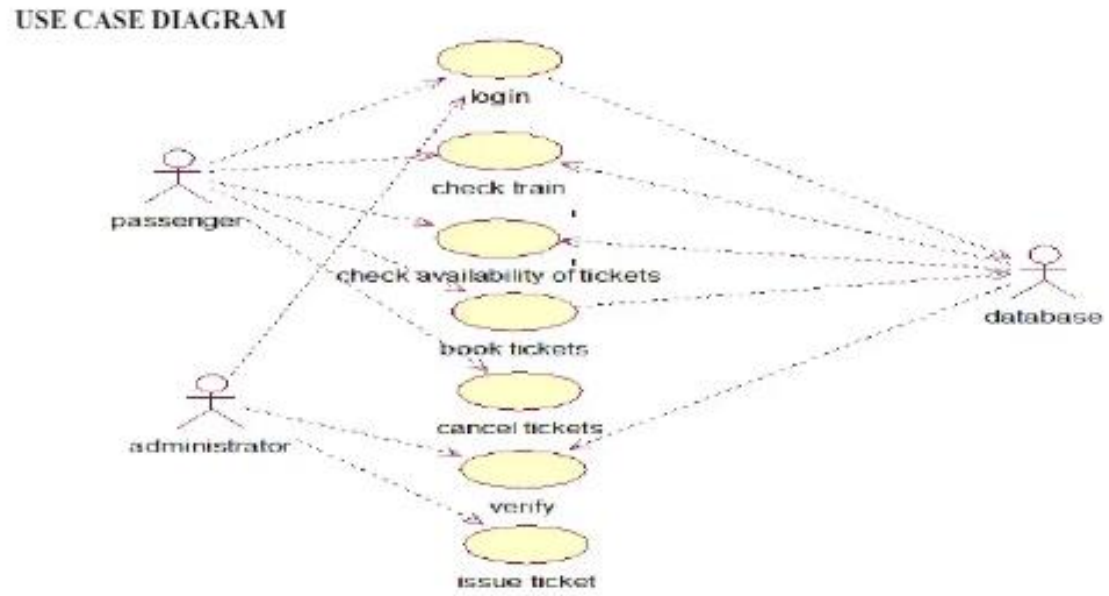
Component:

Component Diagram



5.E-Ticketing

Use case:



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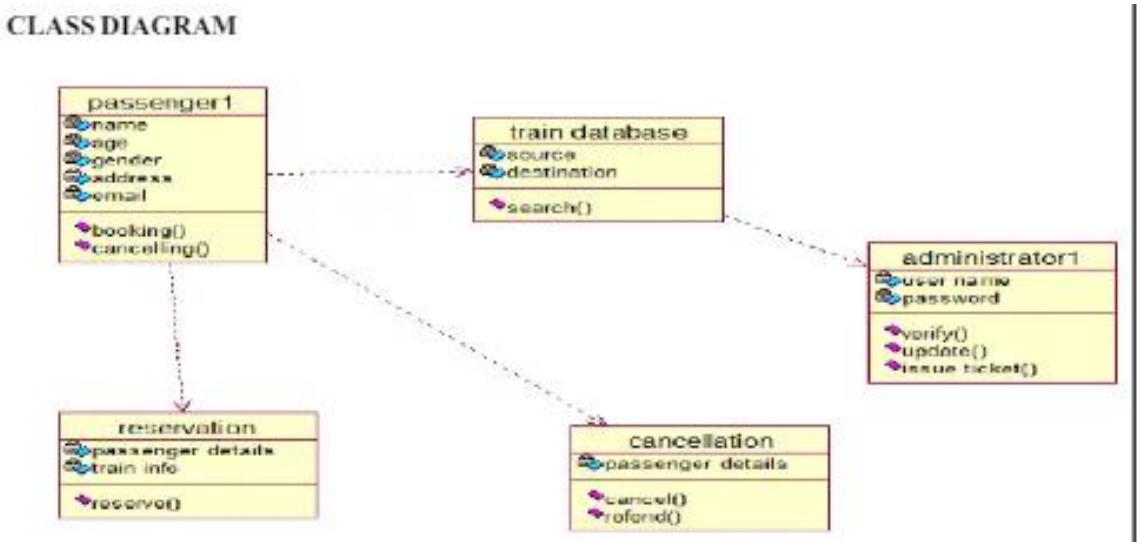
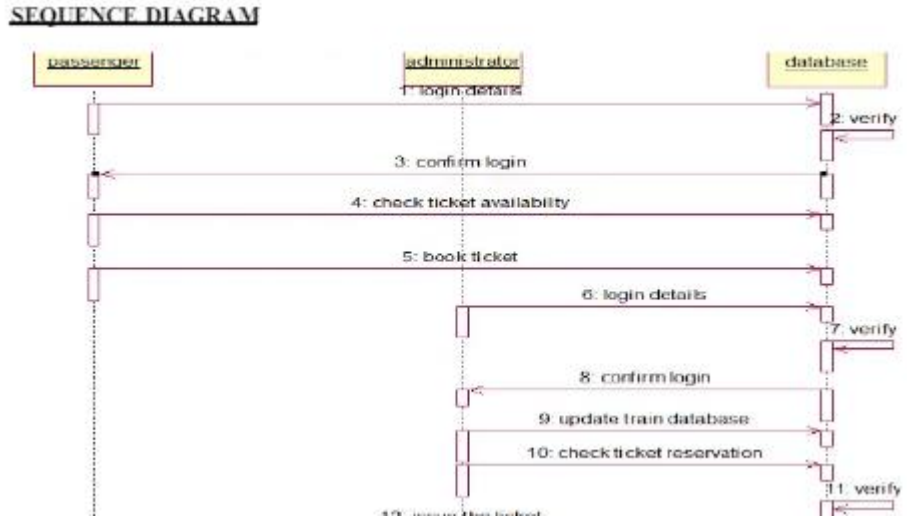
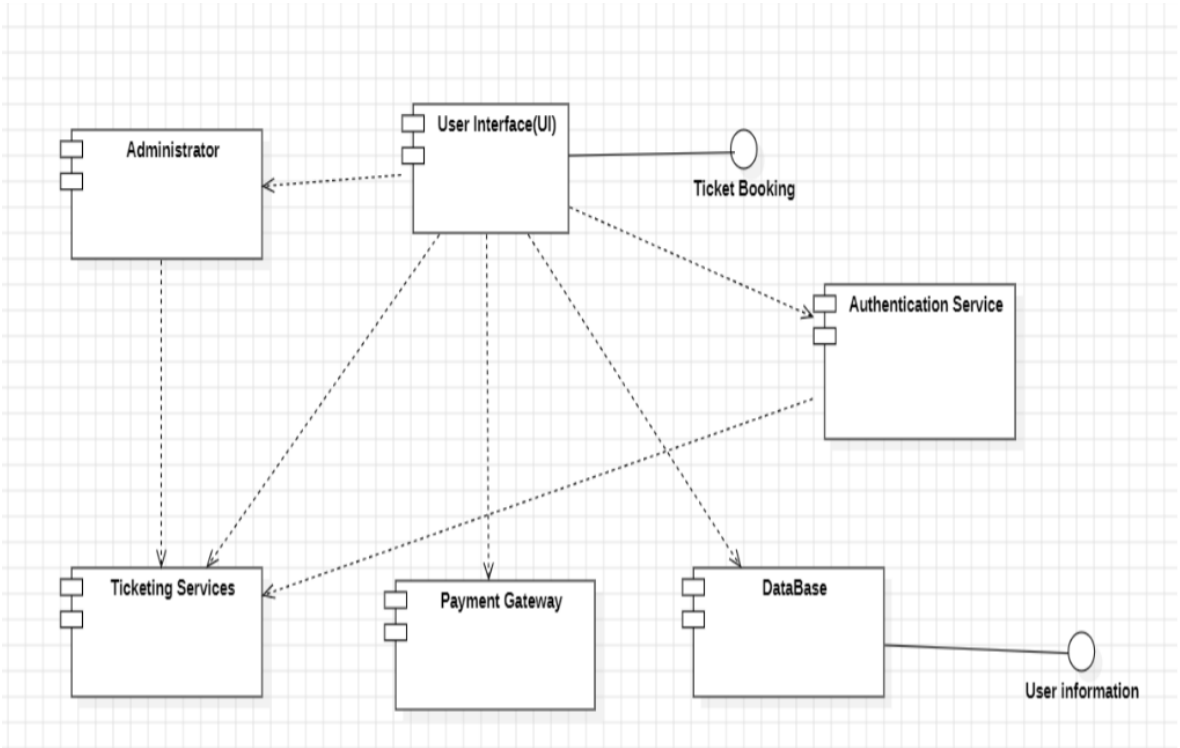


Sequence:

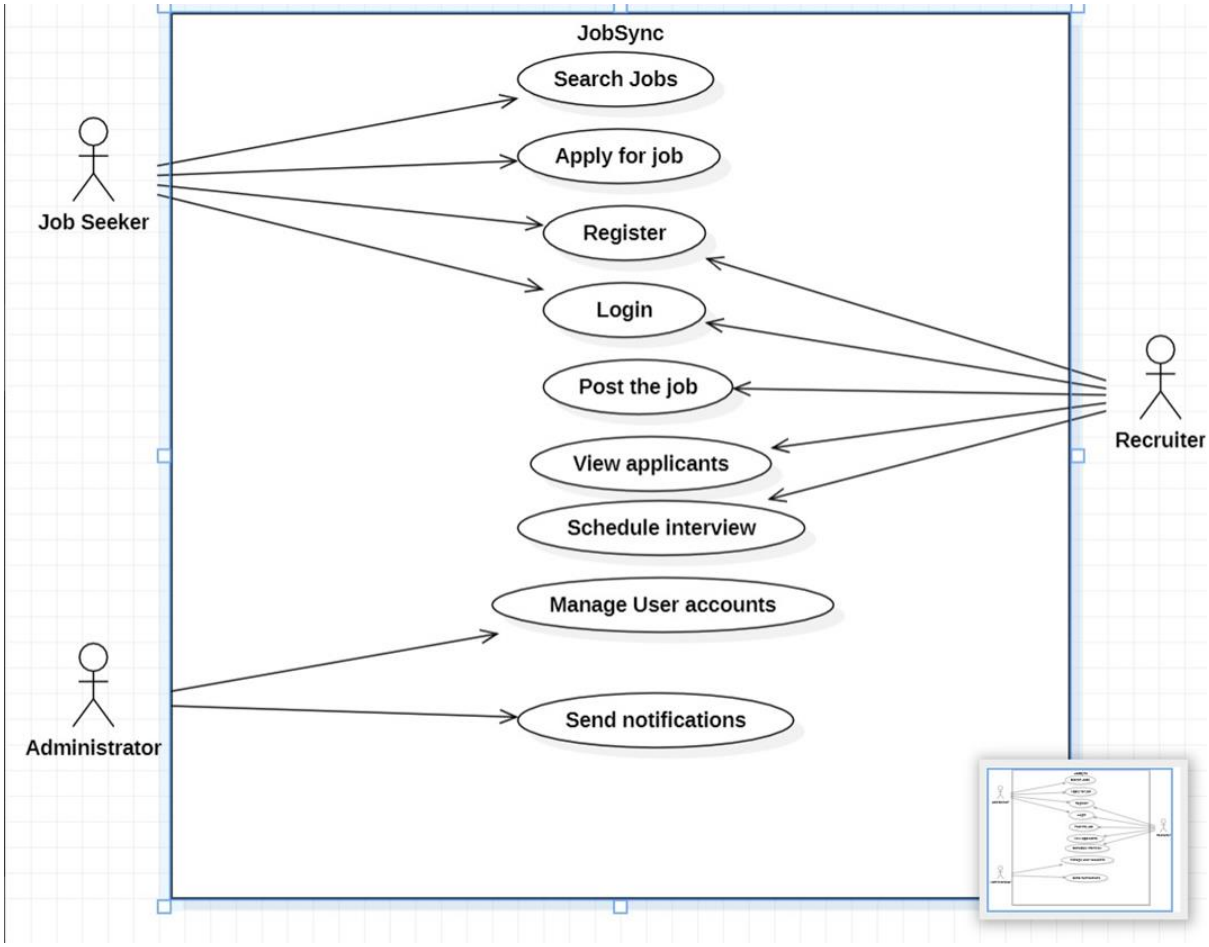


Component:



6.Recruitment System:

Use case:



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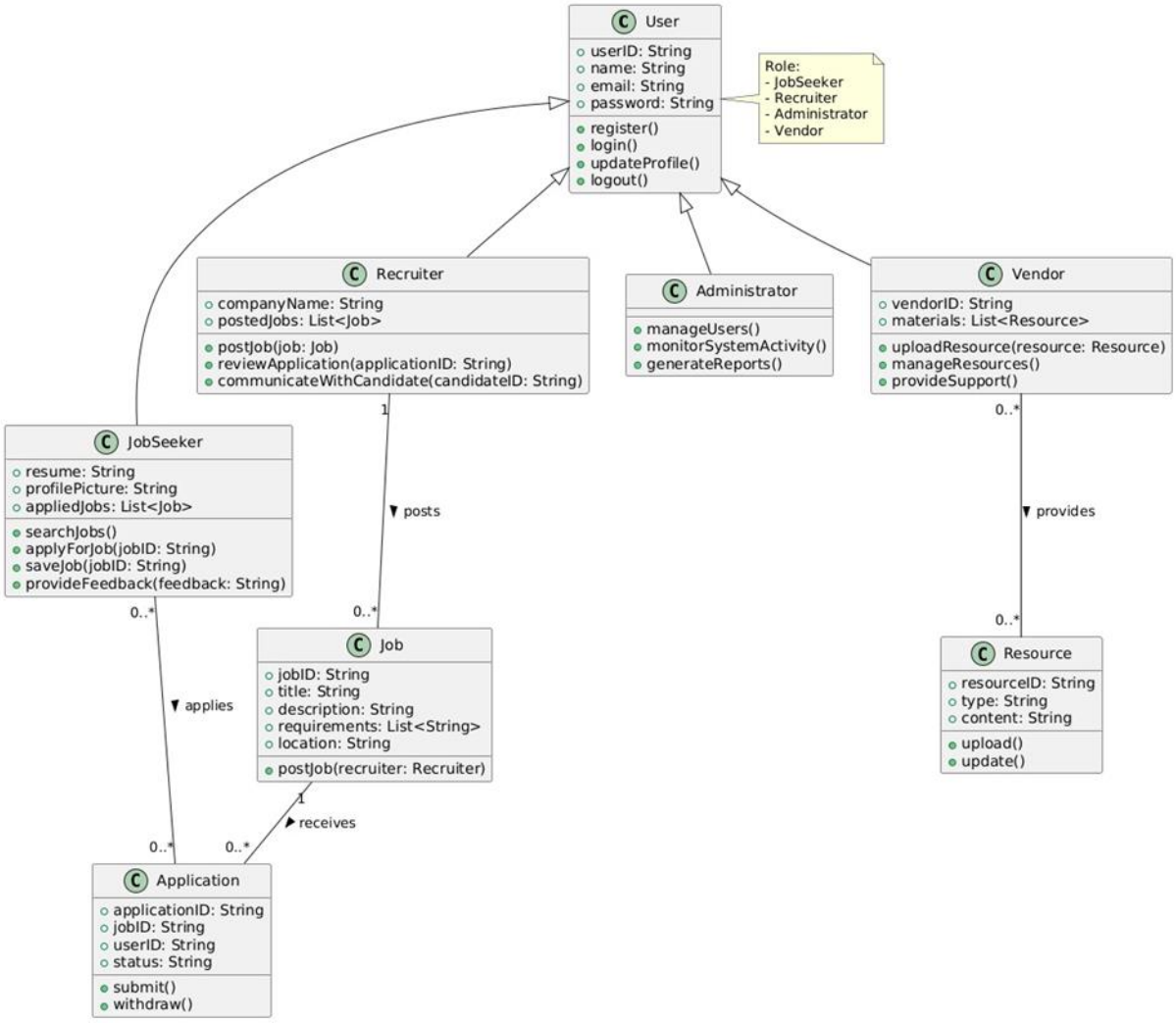
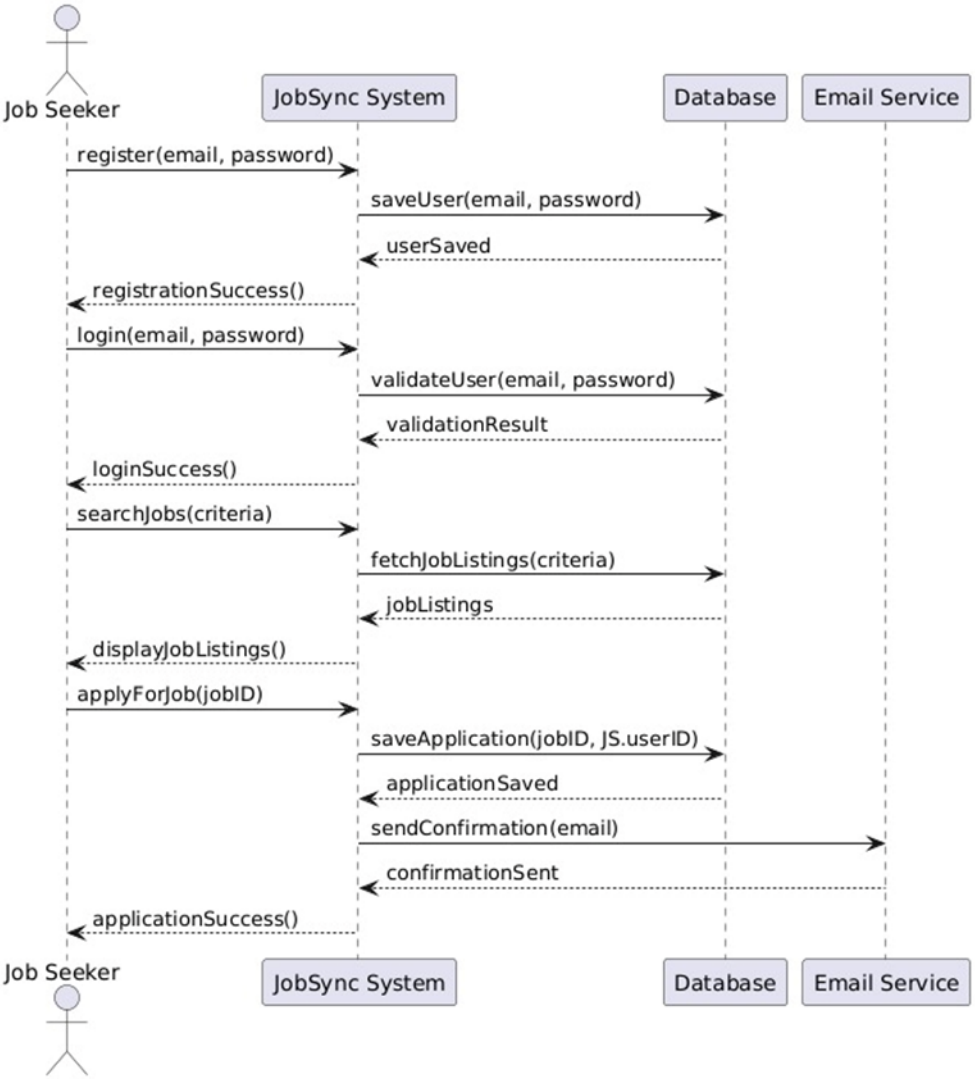
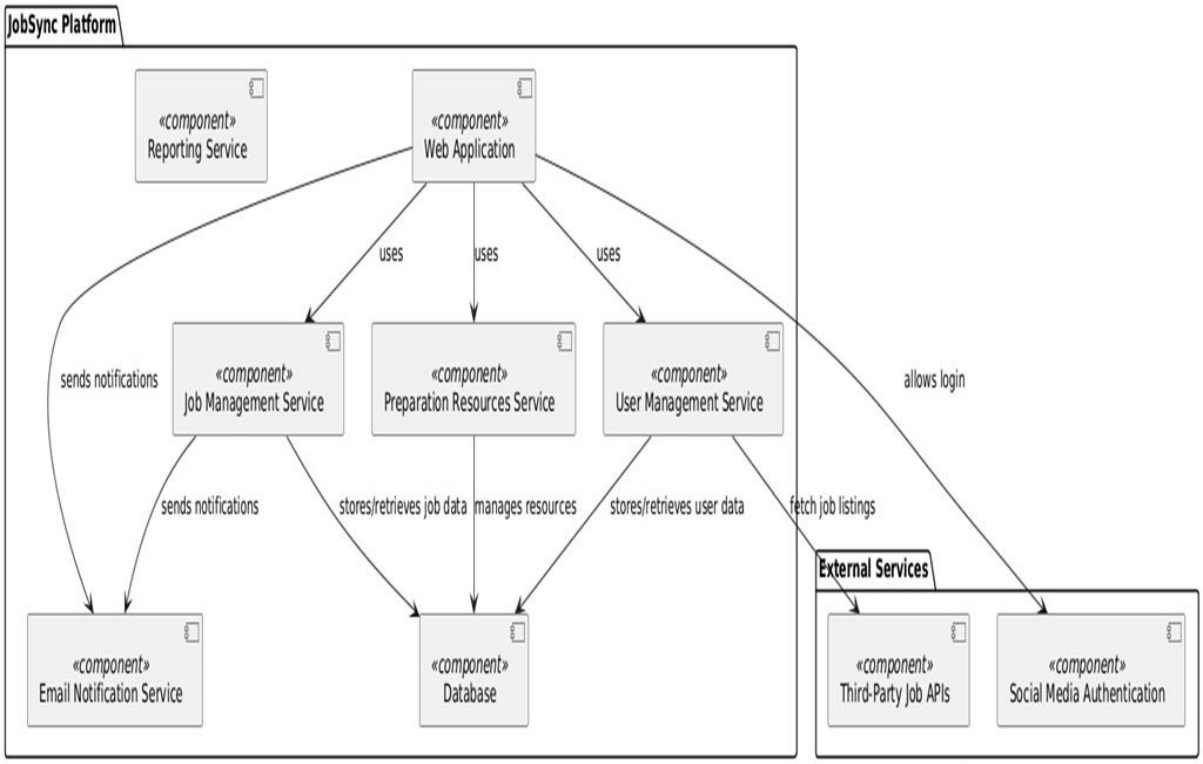

User
+ userID: String
+ name: String
+ email: String
+ password: String
+ register()
+ login()
+ updateProfile()
+ logout()
Role:
- JobSeeker
- Recruiter
- Administrator
- Vendor
Recruiter
+ companyName: String
+ postedJobs: List<Job>
+ postJob(job: Job)
+ reviewApplication(applicationID: String)
+ communicateWithCandidate(candidateID: String)
Administrator
+ manageUsers()
+ monitorSystemActivity()
+ generateReports()
Vendor
+ vendorID: String
+ materials: List<Resource>
+ uploadResource(resource: Resource)
+ manageResources()
+ provideSupport()
JobSeeker
+ resume: String
+ profilePicture: String
+ appliedJobs: List<Job>
+ searchJobs()
+ applyForJob(jobID: String)
+ saveJob(jobID: String)
+ provideFeedback(feedback: String)
1
posts
0..*
0..*
0..*
provides
0..*
applies
Job
+ jobID: String
+ title: String
+ description: String
+ requirements: List<String>
+ location: String
+ postJob(recruiter: Recruiter)
Resource
+ resourceID: String
+ type: String
+ content: String
+ upload()
+ update()
1
receives
0..*
0..*
Application
+ applicationID: String
+ jobID: String
+ userID: String
+ status: String
+ submit()
+ withdraw()

Sequence:


Job Seeker
JobSync System
Database
Email Service
register(email, password)
saveUser(email, password)
userSaved
registrationSuccess()
login(email, password)
validateUser(email, password)
validationResult
loginSuccess()
searchJobs(criteria)
fetchJobListings(criteria)
jobListings
displayJobListings()
applyForJob(jobID)
saveApplication(jobID, JS.userID)
applicationSaved
sendConfirmation(email)
confirmationSent
applicationSuccess()
Job Seeker
JobSync System
Database
Email Service

Component:


JobSync Platform
«component»
Reporting Service
«component»
Web Application
uses
uses
uses
sends notifications
«component»
Job Management Service
«component»
Preparation Resources Service
«component»
User Management Service
allows login
sends notifications
stores/retrieves job data
manages resources
stores/retrieves user data
fetch job listings
External Services
«component»
Email Notification Service
«component»
Database
«component»
Third-Party Job APIs
«component»
Social Media Authentication