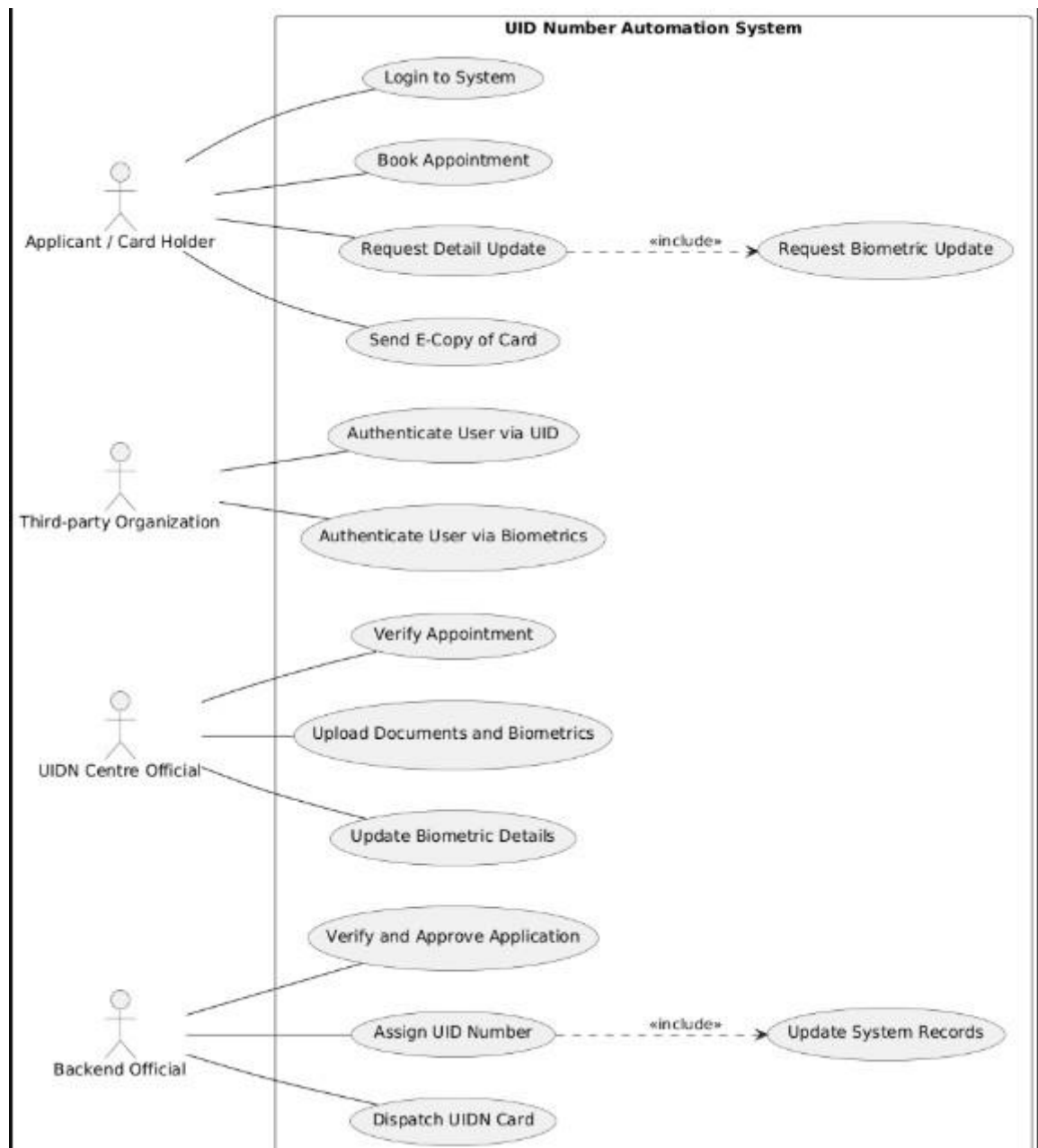# Name: Mohul Y P

SRN : PES1UG22CS360

1. **Use case diagram :**

2. Class Diagram:

Hospital
- name: String
- location: String
- addDepartment(dept: Department)

1

0..*

Department
- name: String
- type: String
- assignDoctor(doc: Doctor)

1

1..*

Doctor
- doctorID: String
- name: String
- specialization: String
- visitingTime: String
- prescribeTest(test: Test, patient: Patient)
- prescribeMedicine(patient: Patient)

Reception
- registerPatient(patient: Patient)
- collectPayment(patient: Patient, amount: Double)
- generateDischargeTicket(patient: Patient)

1

treats

0..*

registers

0..*

Patient
- patientID: String
- name: String
- age: int
- admitted: Boolean
- visitDoctor(doc: Doctor)
- getTestResults(test: Test)
- makePayment(amount: Double)

performed by

collects

0..*

0..*

admitted in

undergoes

makes

1

1..*

1

1..*

1..*

0..*

Operation
- operationID: String
- date: String
- time: String
- scheduleOperation(patient: Patient, doctor: Doctor)

Ward
- wardNumber: String
- department: String
- availability: Boolean
- assignPatient(patient: Patient)

Test
- testID: String
- type: String
- result: String
- conductTest(patient: Patient)

Payment
- paymentID: String
- amount: Double
- status: String