Model::Main

USER CLASS

+user_id: Int
+user_name: String
+user_age: Int
+user_address: String
+user_mobile_number: String
+user_email: String
+user_password: String

+addUser()
+editUser()
+deleteUser()

POLICY CLASS

+Policy_id: Int
+Policy_Number: BigInt
+Policy_Type: String
+Start_Date: Date
+End_Date: Date

+addInsurance()
+editInsurance()
+deleteInsurance()

LOGIN CLASS

+user_email: String
+user_password: String

+isValidUser()

PAYMENT CLASS

+payment_id: Int
+payment_amount: Float
+payment_type: String

+addPayment()
+editPayment()
+deletePayment()

ADMIN CLASS

+admin_id: Int
+admin_name: String
+admin_age: Int
+admin_email: String
+admin_password: String

+addAdmin()
+deleteAdmin()
+editAdmin()

DOCUMENT CLASS

+document_id: Int
+document_name: String
+document_type - String

+addDocument()
+editDocument()
+deleteDocument()

CLAIM CLASS

+claim_id: Int
+Claim_Number: String
+Claim_Date: String
+Status: String

+addClaim()
+editClaim()
+deleteClaim()

Activity1::ActivityDiagram1

```
                                    ●
                                    │
                                    ▼
                              ┌───────────┐
                              │ Register  │
                              └───────────┘
                                    │
                                    ▼
                              ┌───────────────┐
                              │ Login Details │
                              └───────────────┘
                                    │
                                    ▼
                              ┌────────────┐
                              │ Validation │
                              └────────────┘
                                    │
                                    ▼
  ┌─────────────────────┐        ◇
  │ Enter correct details│◄─── ◇   ◇   NO
  └─────────────────────┘        ◇
                                 │ YES
                                 ▼
                           ┌─────────────┐
                           │ Main Window │
                           └─────────────┘
                                 │
                          ▬▬▬▬▬▬▬▬▬▬▬▬
                         ╱              ╲
                        ▼                ▼
            ┌───────────────────┐   ┌──────────────────────┐
            │ Apply for Insurance│   │ View Insurance Details│
            └───────────────────┘   └──────────────────────┘
                     │                        │
                     ▼                        ▼
          ┌────────────────────┐    ┌──────────────────────┐
          │ Checking Eligibility│    │ Read Detailed Documents│
          └────────────────────┘    └──────────────────────┘
                     │                        │
   ┌──────────────┐  ◇                        │
   │ Not Eligible │◄─◇  ◇  NO                  │
   └──────────────┘  ◇                         │
                     │ YES                     │
                     ▼                         │
           ┌──────────────┐                    │
           │ Payment Portal│                    │
           └──────────────┘                    │
                     │                         │
   ┌────────────────────┐  ◇                   │
   │ Payment Not successful│◄─◇ ◇ NO            │
   └────────────────────┘  ◇                    │
                     │ YES                      │
                     ▼                          │
           ┌──────────────────┐                 │
           │ Apply Successfully│                 │
           └──────────────────┘                 │
                     │                          │
                     ▼                          │
                    ◉ ◄───────────────────────┘
```
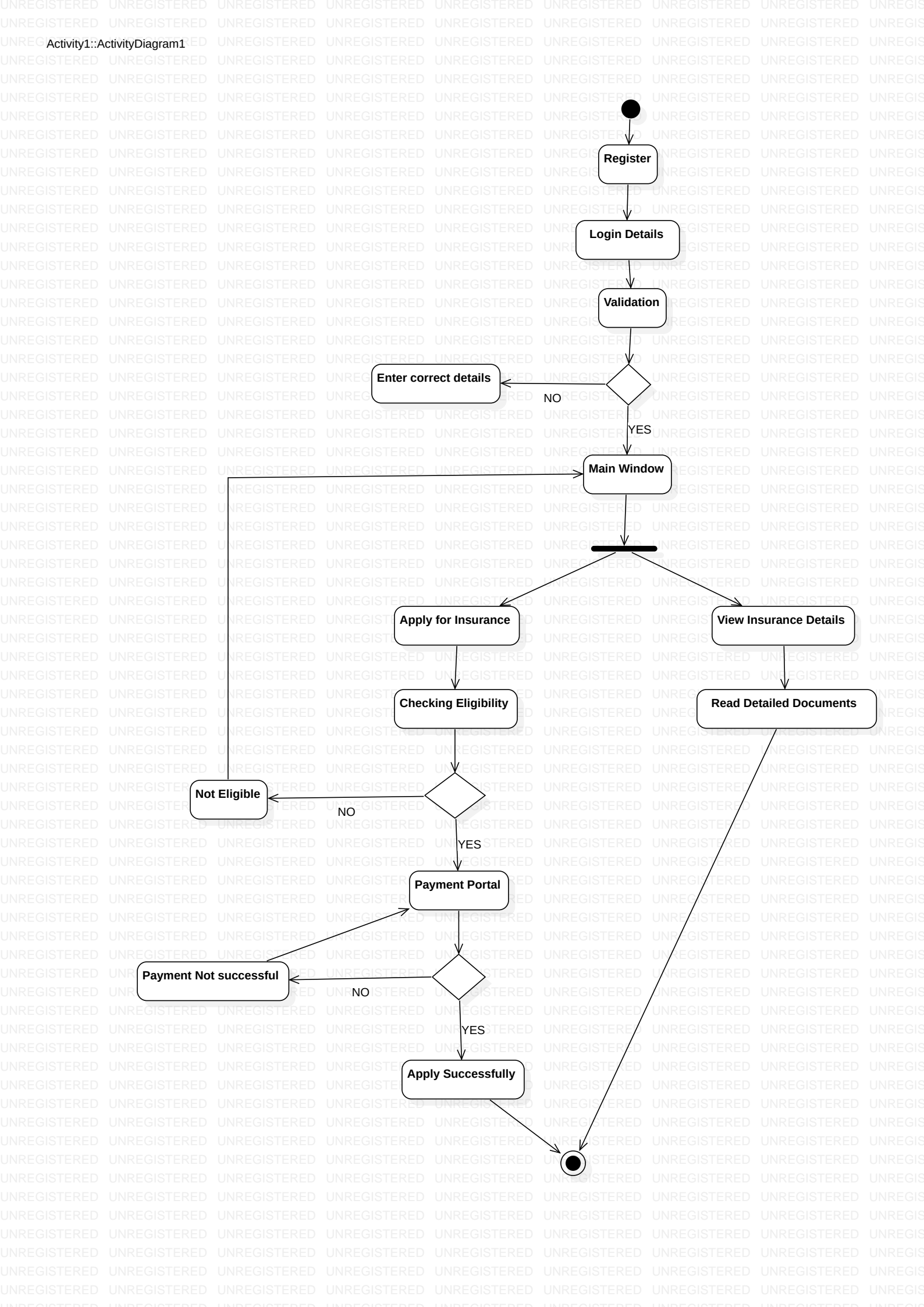
StateMachine1::StatechartDiagram1

```
      ●
      │
      ▼
 ┌──────────┐
 │Registering│
 └──────────┘
      │
      ▼
 ┌──────────┐    Invalid    ┌──────────────┐
 │Logging in│──────────────▶│Invalid Details│
 └──────────┘               └──────────────┘
      │
      │ Valid
      ▼
 ┌───────────┐
 │Main Window│
 └───────────┘
      │
 ━━━━━┻━━━━━━
  ╱         ╲
 ▼           ▼
┌─────────────┐              ┌──────────────┐
│Apply Insurance│            │View Insurance│
└─────────────┘              └──────────────┘
 │        │                        │
 │Invalid │                        ▼
 ▼        │                 ┌──────────────┐
┌──────────┐                │Read Instruction│
│Not Eligible│              └──────────────┘
└──────────┘                        │
          │ Valid                    │
          ▼                          │
    ┌──────────────┐                 │
    │Payment Portal│                 │
    └──────────────┘                 │
     │        │                      │
 Invalid│     │ Valid                 │
 ▼      │     ▼                      ▼
┌────────────┐  ┌────────────────┐   ◉
│Payment failed│ │Insurance Applied│──▶
└────────────┘  └────────────────┘
```
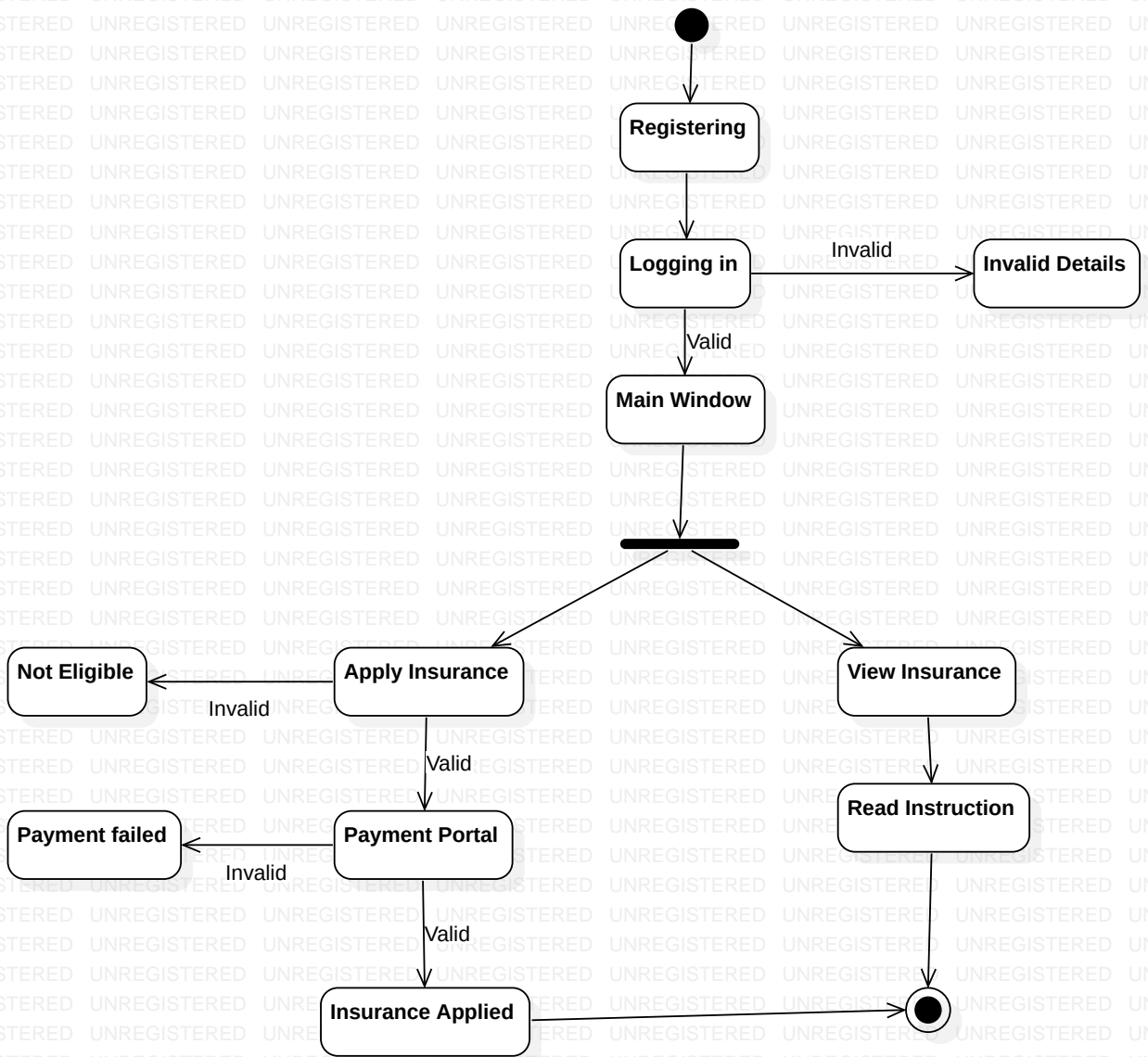
Collaboration1::Interaction1::SequenceDiagram1

sd SequenceDiagram1

USER	INSURANCE	ADMIN	DATABASE

1 : Register

2 : Store details in database

3 : Login

4 : Retrieve Data from database

5 : Apply Policies

6 : Add insurance instructions
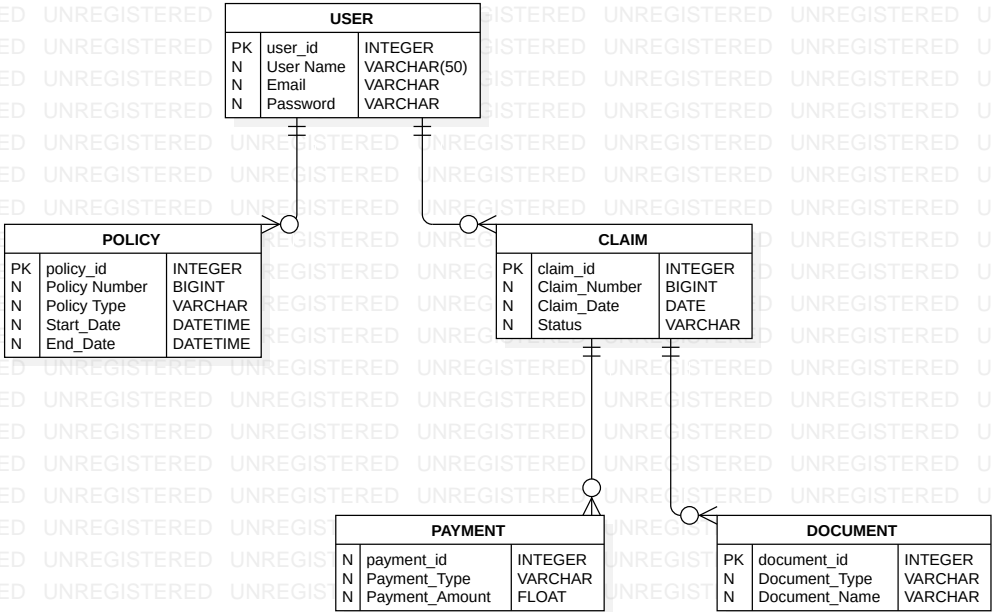
7 : Add policies to database

8 : Payment

9 : Payment Details stored

10 : Insurance applied

11 : Managing user details

12 : Managing policies

USER

PK	user_id	INTEGER
N	User Name	VARCHAR(50)
N	Email	VARCHAR
N	Password	VARCHAR

POLICY

PK	policy_id	INTEGER
N	Policy Number	BIGINT
N	Policy Type	VARCHAR
N	Start_Date	DATETIME
N	End_Date	DATETIME

CLAIM

PK	claim_id	INTEGER
N	Claim_Number	BIGINT
N	Claim_Date	DATE
N	Status	VARCHAR

PAYMENT

N	payment_id	INTEGER
N	Payment_Type	VARCHAR
N	Payment_Amount	FLOAT

DOCUMENT

PK	document_id	INTEGER
N	Document_Type	VARCHAR
N	Document_Name	VARCHAR

Flowchart1::FlowchartDiagram1

_user_id_

User_Name

USER

Password

Email

Claim_Number

_claim_id_

CLAIM

Claim_Date

Status

Relationship

OntToMany

_policy_id_

Policy_Number

POLICY

Policy_Type

Start_Date

End_State

_payment_id_

Relationship

PAYMENT

OneToMany

Payment_Type

Payment_Amount

Document_Type

DOCUMENT

document_id

Document_Name