IT314 – Software Engineering

Group 25

Diagnosis Expert System

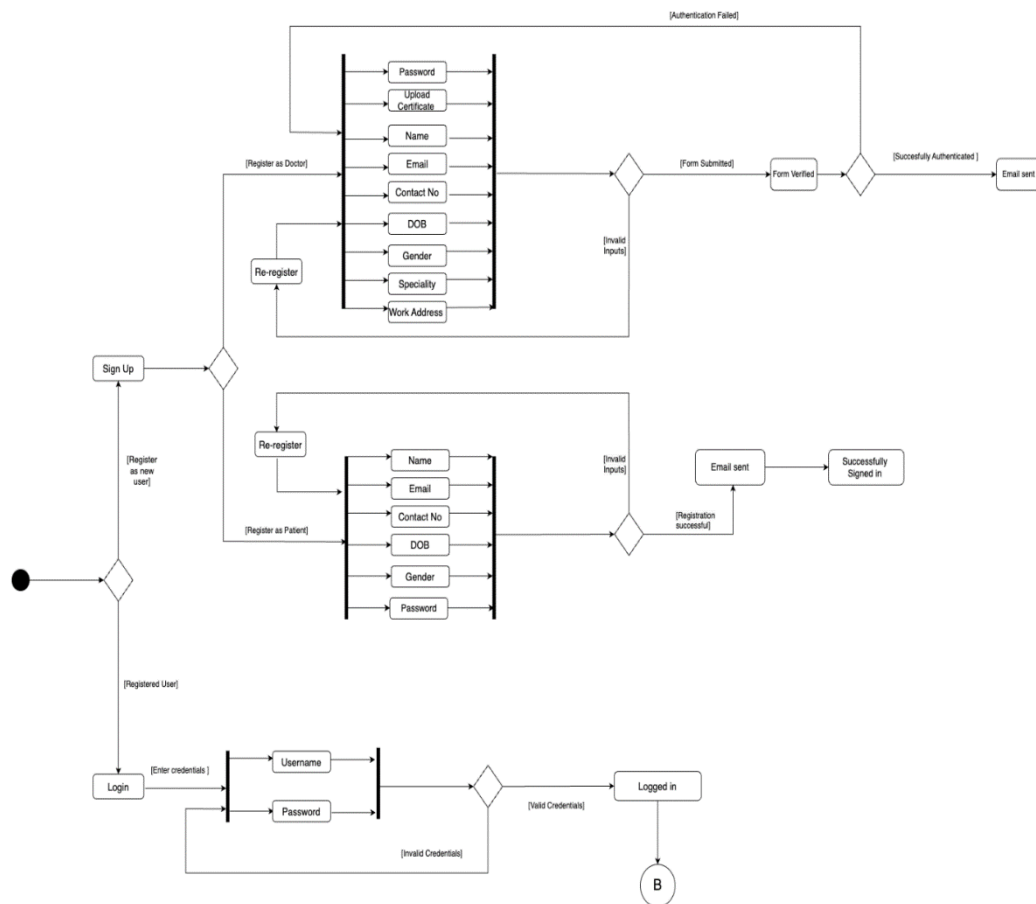## Table of content
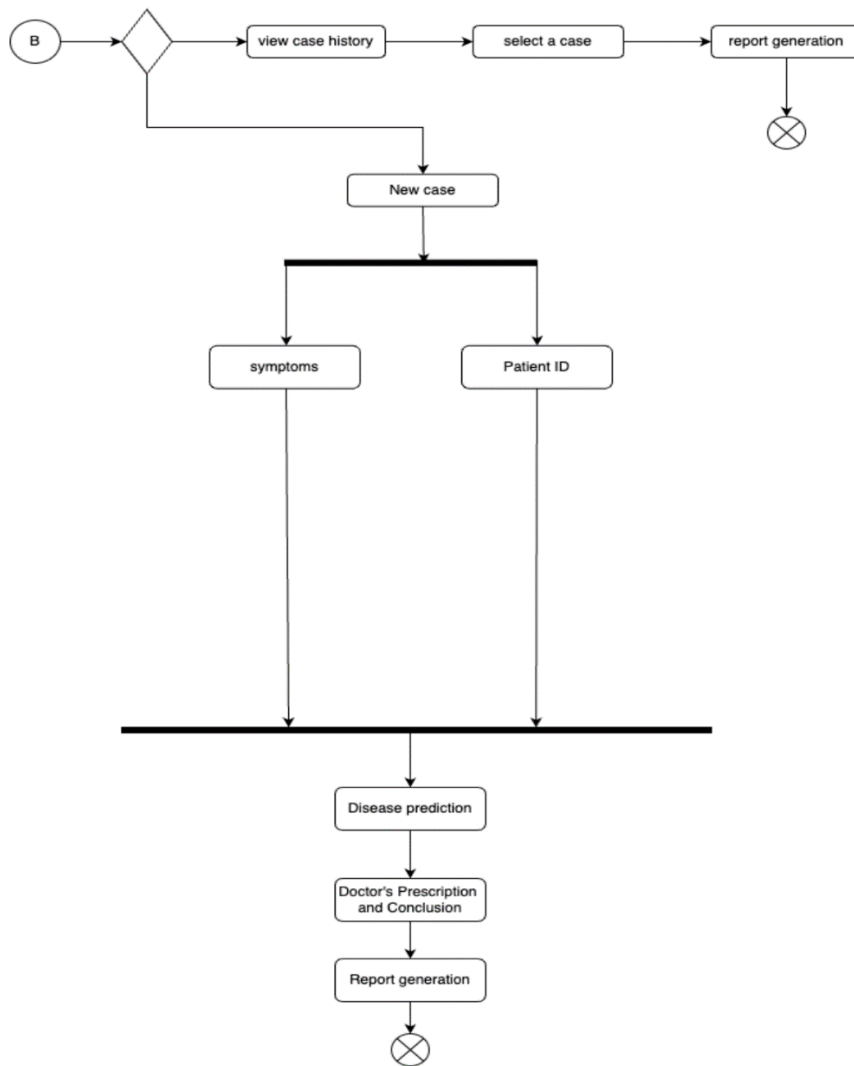
Introduction: Design Document

This documentation presents the design details of the Diseases Diagnosis expert system. It includes activity, class, and sequence diagrams, offering a detailed explanation of how the system operates and the flow of its functions. These diagrams provide a clear overview of the system's structure and processes.
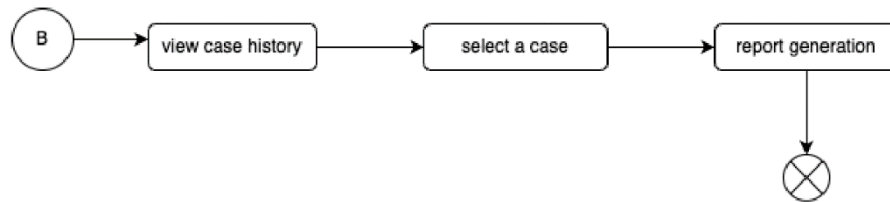
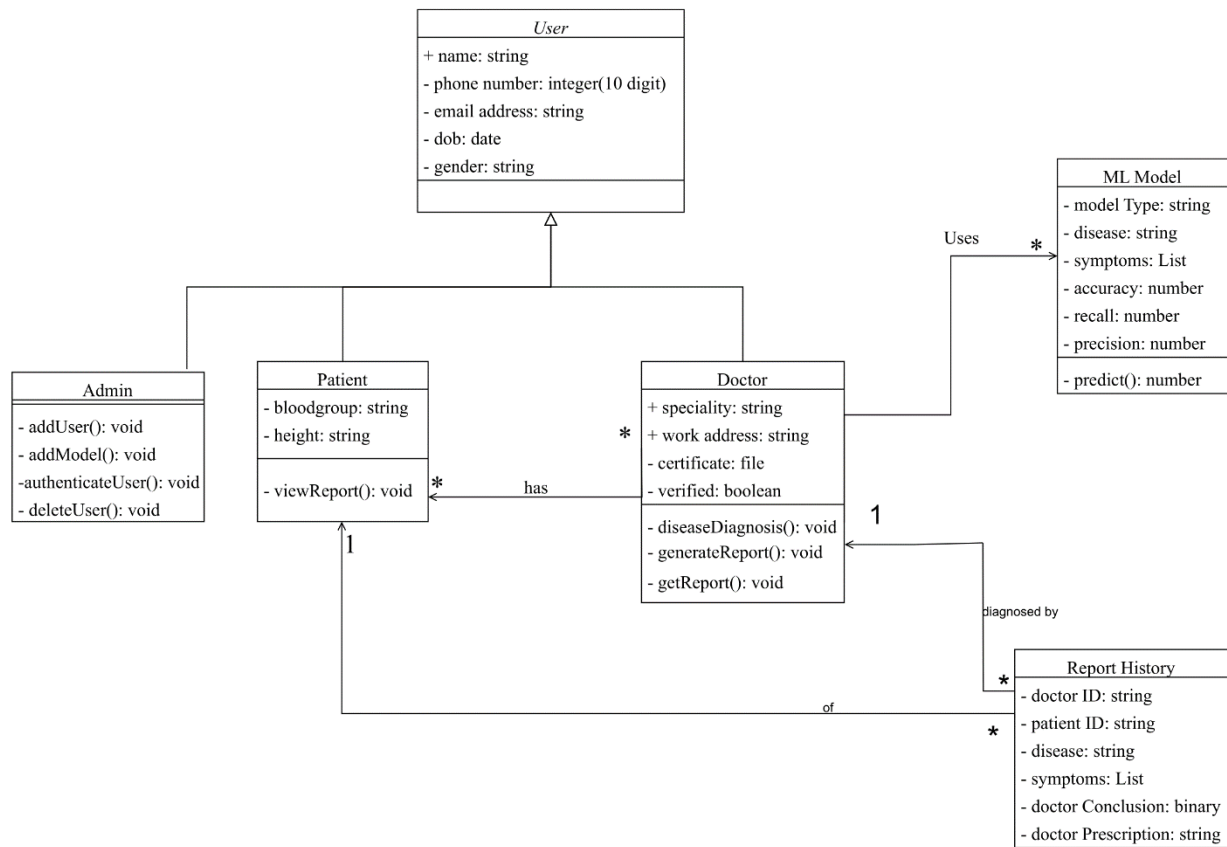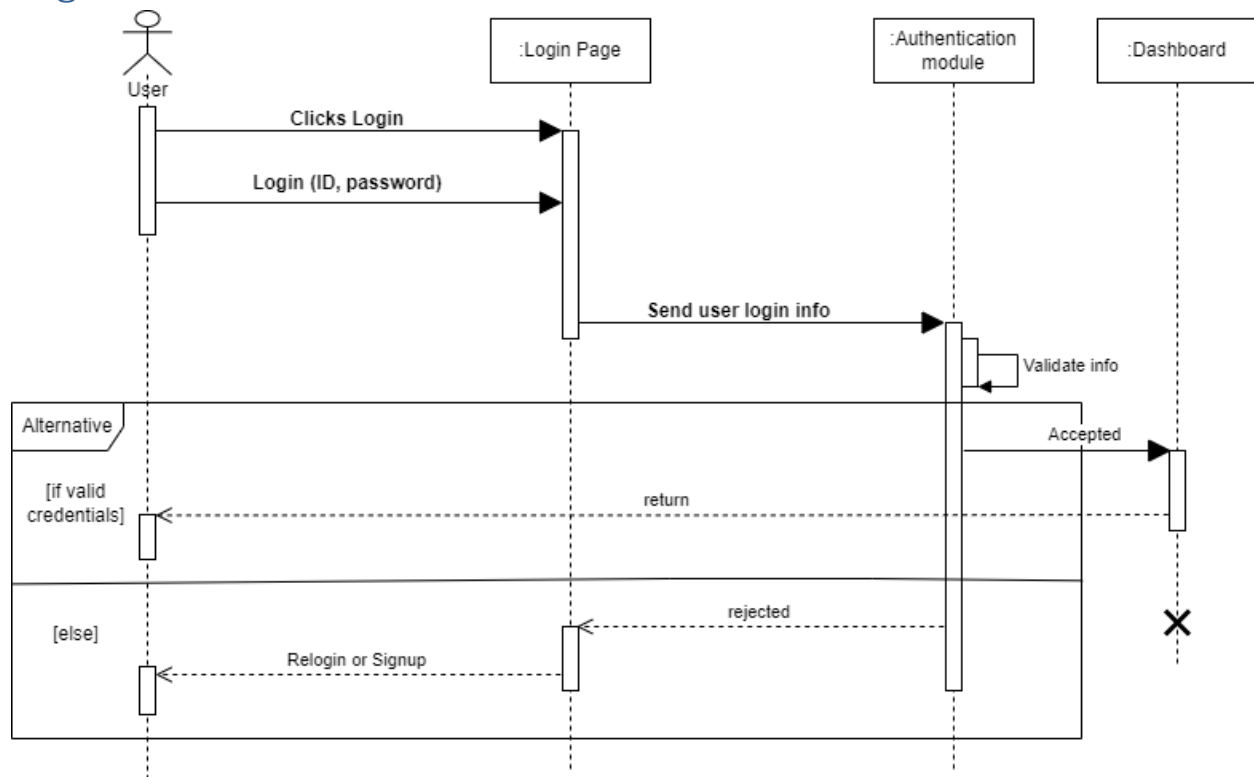## Activity Diagram:

1) Login/Sign_up

2) Doctor's View


```
  B  ──▶  ◇  ──▶  [view case history]  ──▶  [select a case]  ──▶  [report generation]
          │                                                              │
          │                                                              ▼
          │                                                             ⊗
          ▼
    [New case]
          │
    ━━━━━━━━━━━━━
     │         │
     ▼         ▼
 [symptoms]  [Patient ID]
     │         │
     ▼         ▼
    ━━━━━━━━━━━━━
          │
          ▼
  [Disease prediction]
          │
          ▼
  [Doctor's Prescription
    and Conclusion]
          │
          ▼
  [Report generation]
          │
          ▼
         ⊗
```

3) Patient's View

Class Diagram:

Sequence Diagram:

Login:

Diseases Diagnosis:

Doctor

:Form :Disease Predictor :Controller :Report Generator

Input: Patient ID, disease Symptoms

Input : Symptoms

Predicts_disease()

Displays predicted probability

Writes Prescription and Conclusion

Fetches_data()

Provides_data()
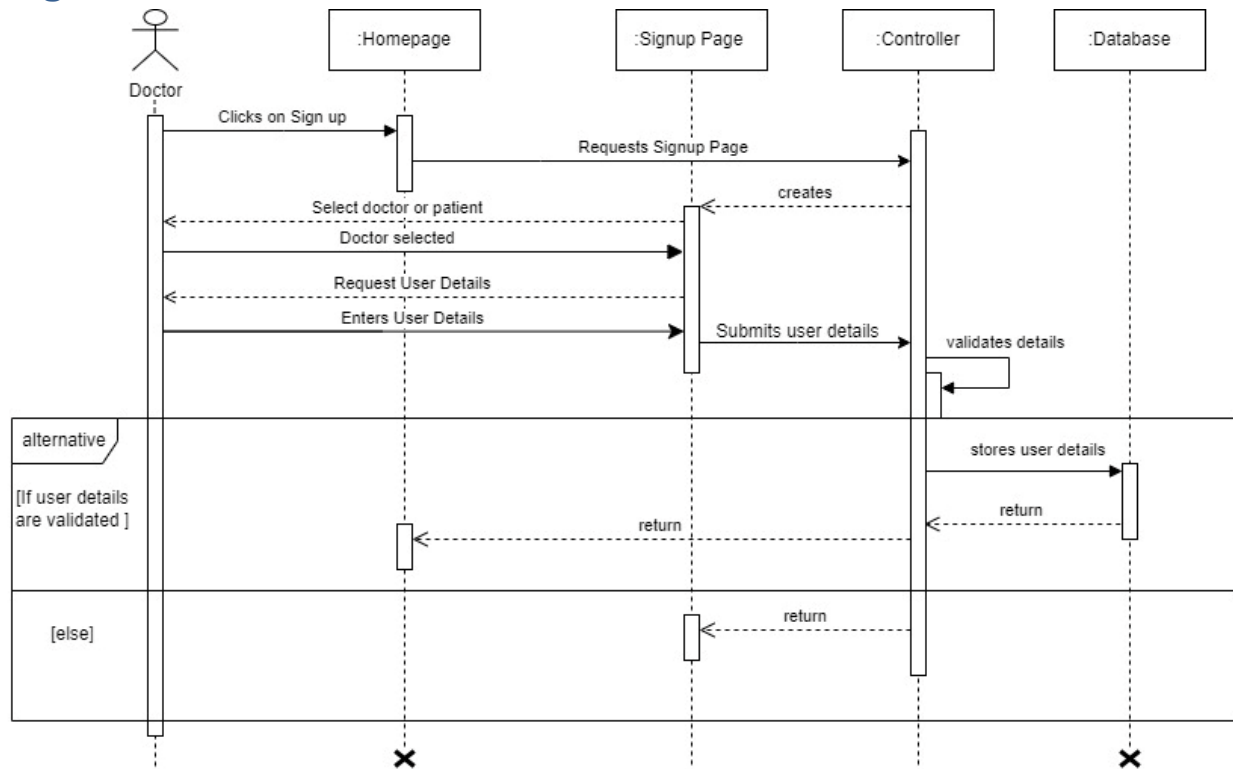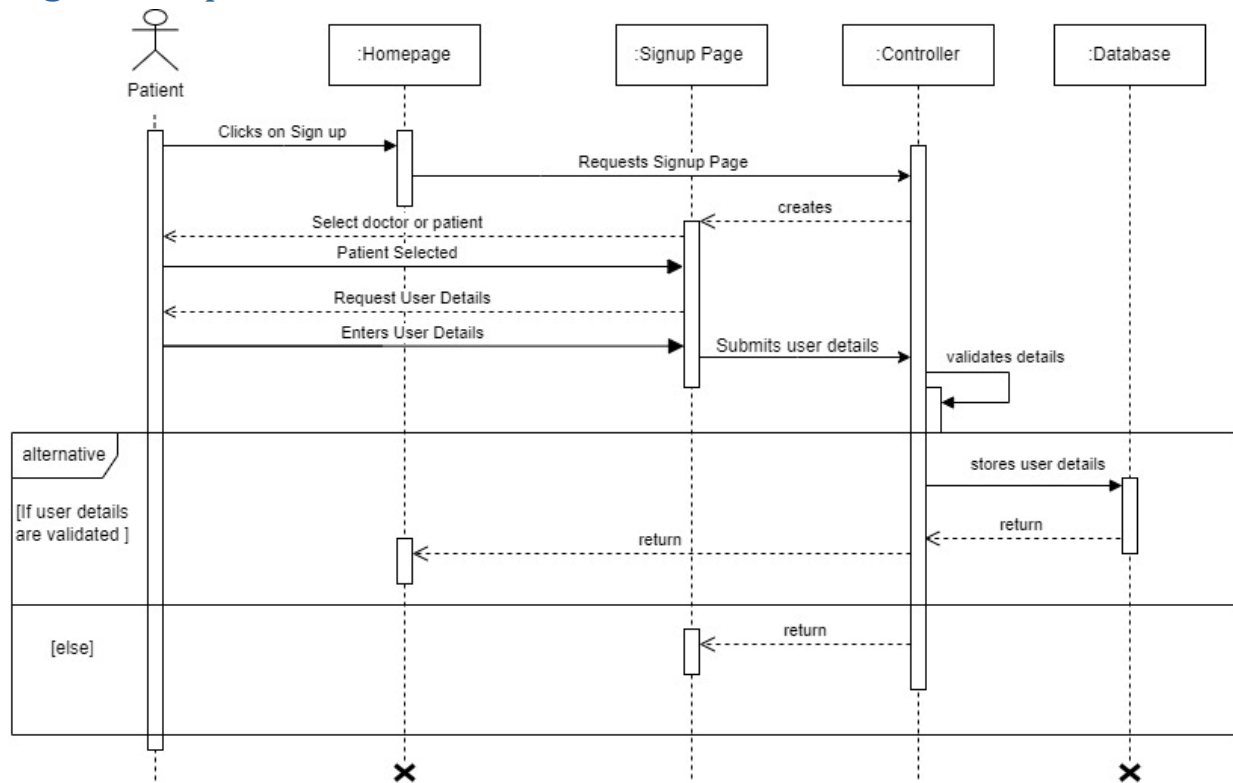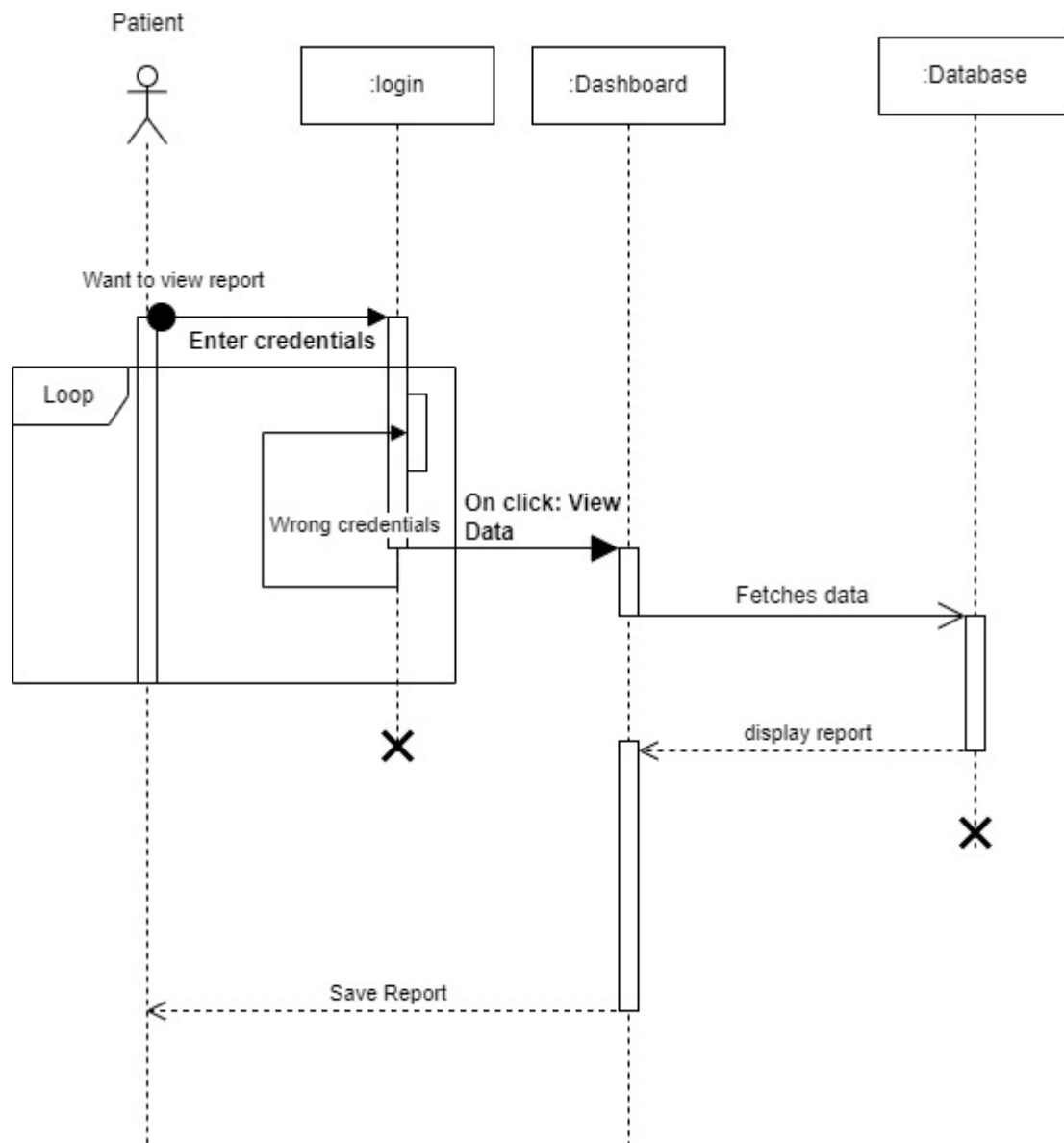
Entity Report

Generates Report

return Report
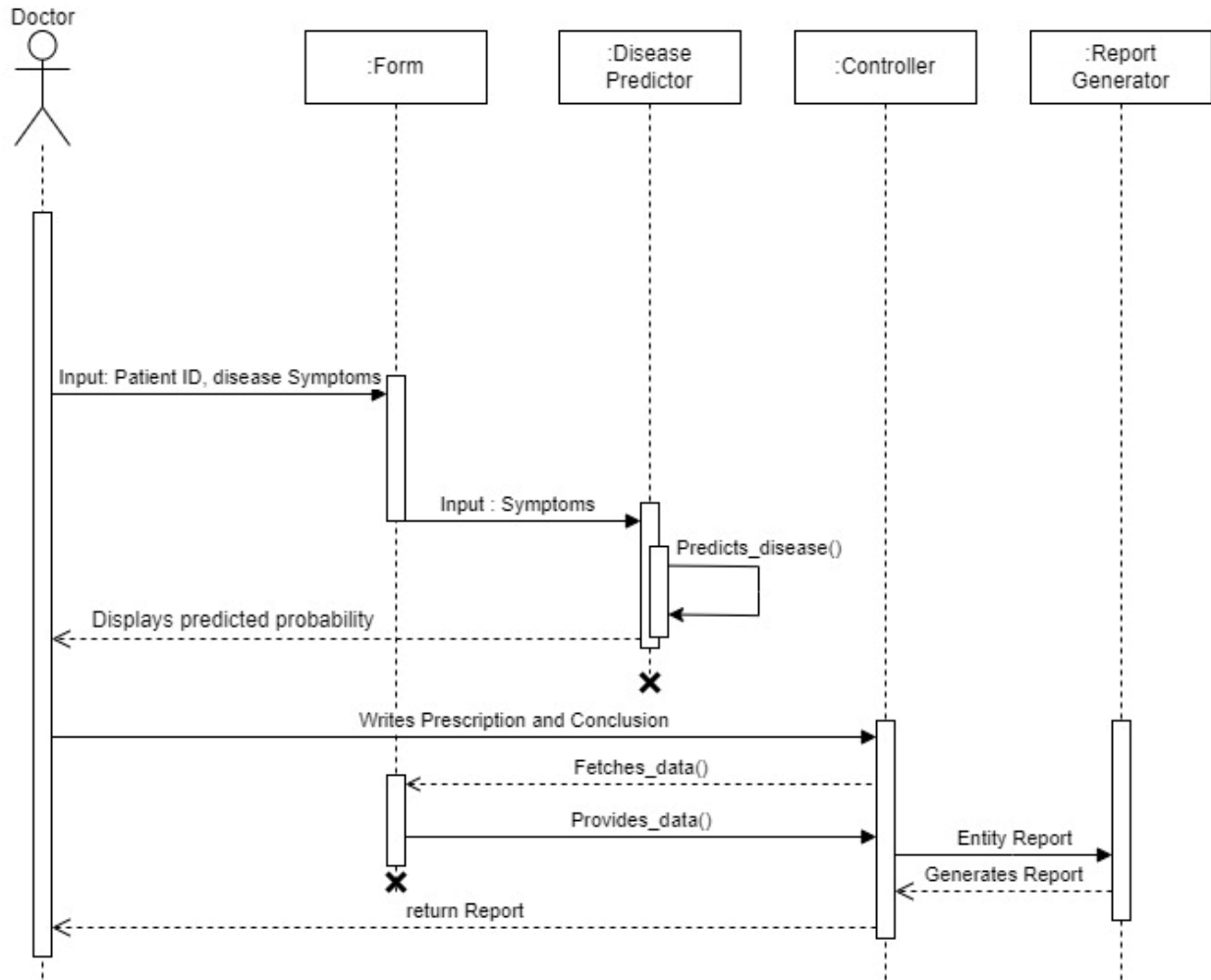
Register as doctor:

Register as patient:

View Report (Patient's View):

View Report (Doctor's View):