
SOFTWARE DESIGN DOCUMENT

for

HMS WEBSITE

Version 1.0

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1 Introduction

1.1 Purpose

This design document is intended to provide a high-level overview of the Hospital Management System project's implementation. It also attempts to characterise the system architecture by identifying the framework and technologies employed in the development. Prior to the coding process, this document will be used to identify any inconsistencies. The major purpose of this document is to make information at the design level comprehensible.

1.2 Project Scope

This design document is intended to give a high-level overview of the system's structure. This document also acts as a mandate for the implementation of design standards, data structures, and design patterns. UML diagrams are supplied to demonstrate how the various components interact.

2 Design Specifications

2.1 Modular Design

Modular Design Modular software architecture divides a big piece of code into smaller portions, or modules, that each performs a specified purpose. The modular design has been found to improve the design process by providing for greater reusability, task management, and debugging. Consistency in development reduced development time, and adaptability is all advantages of the modular design. There are various modules in this project, the design and development are done module-wise. There are several user modules such as patient, doctor, receptionist, diagnostician, ward_clerk, biller and pharmacist. It also contains an admin module that has administrator-related features. The administrator oversees the application and keeps track of all registered users' accounts and activities.

2.2 System Design

2.2.1 Activity Diagrams

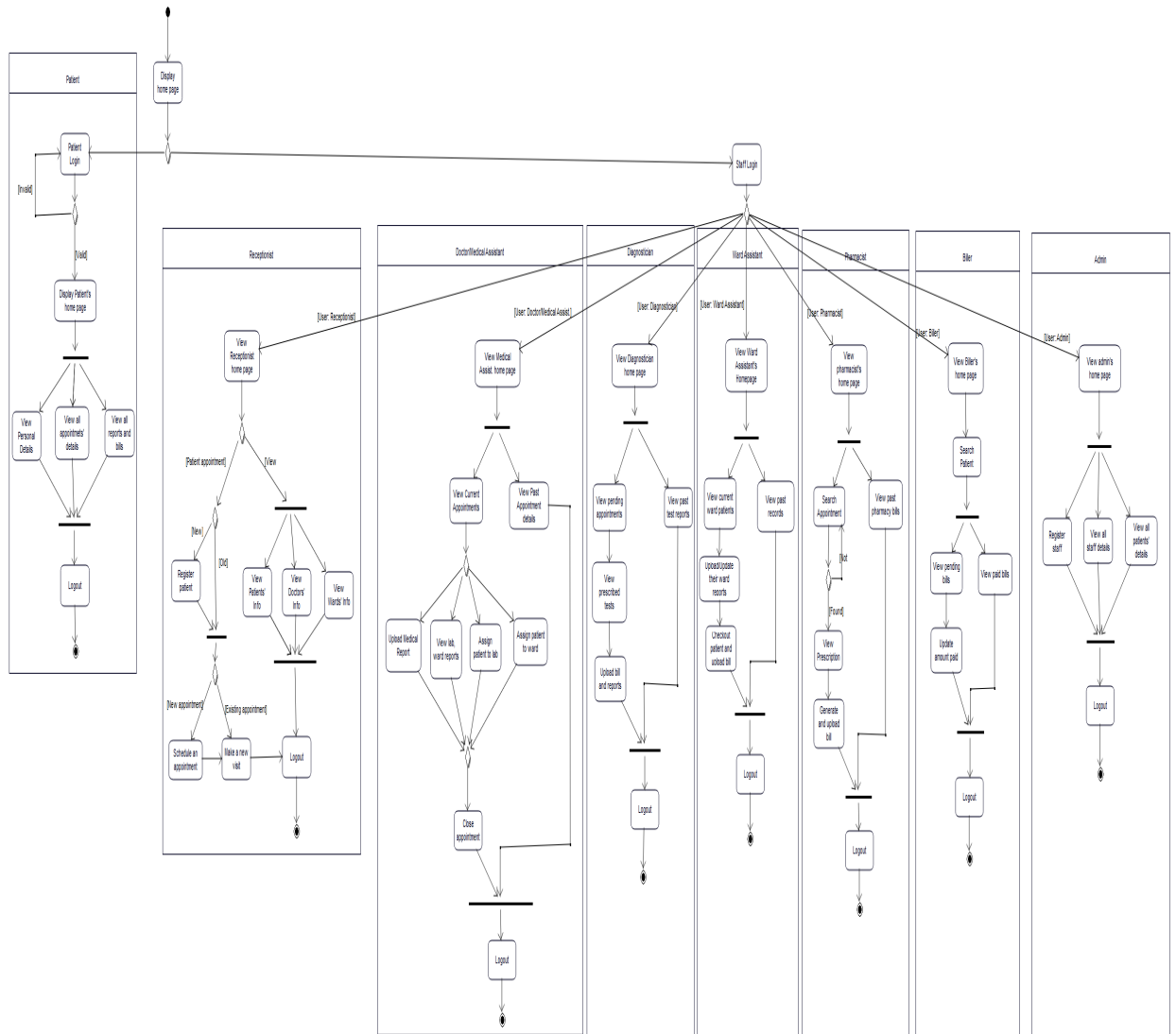


Figure 2.1: Overall Activity Diagram

Scroll down to view Activity diagrams of each functionality, perspective-wise.

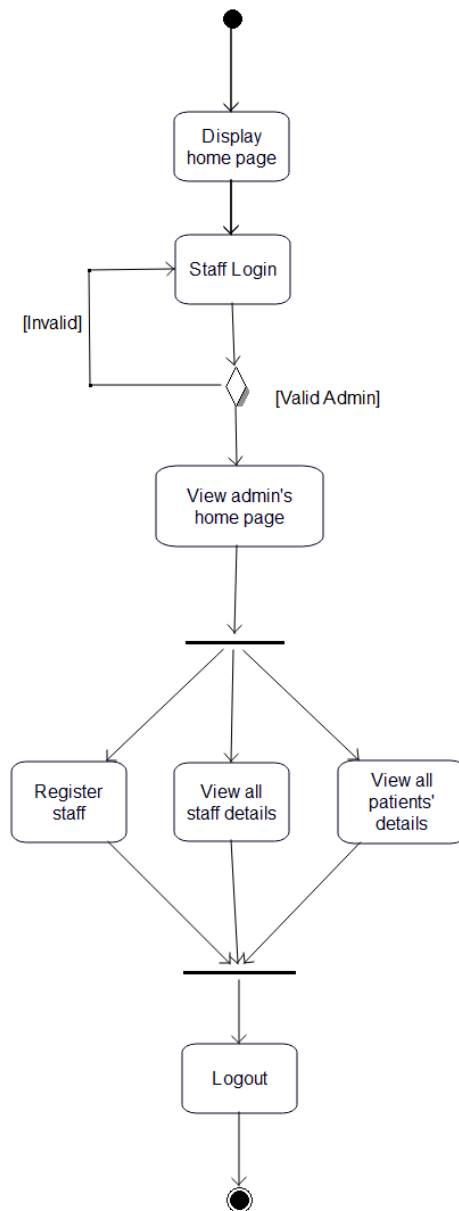


Figure 2.2: Admin Activities

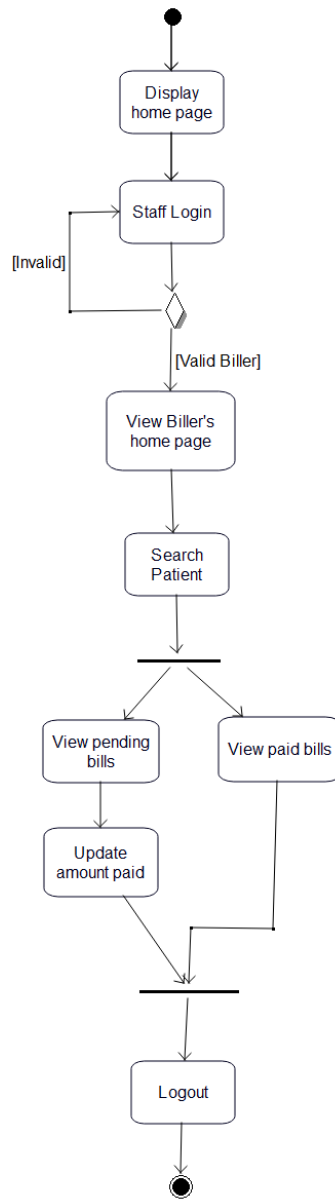


Figure 2.3: Biller Activities

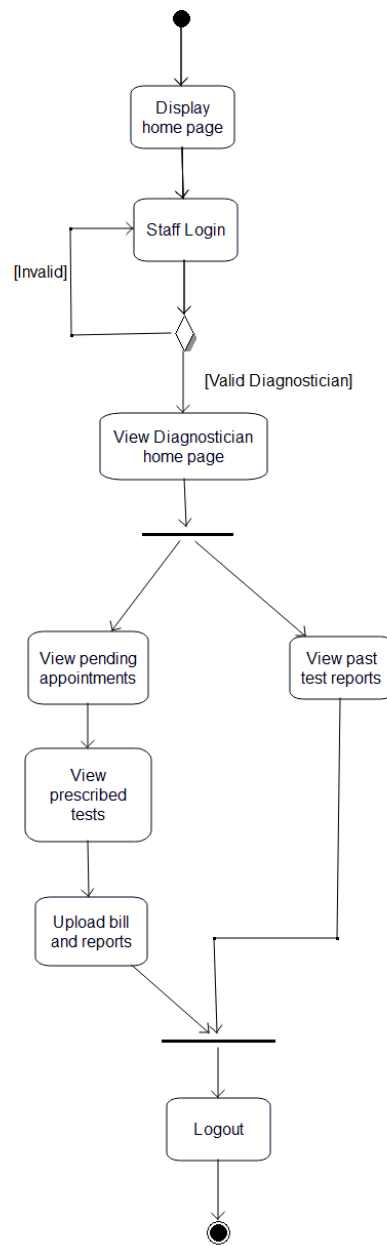


Figure 2.4: Diagnostician Activities

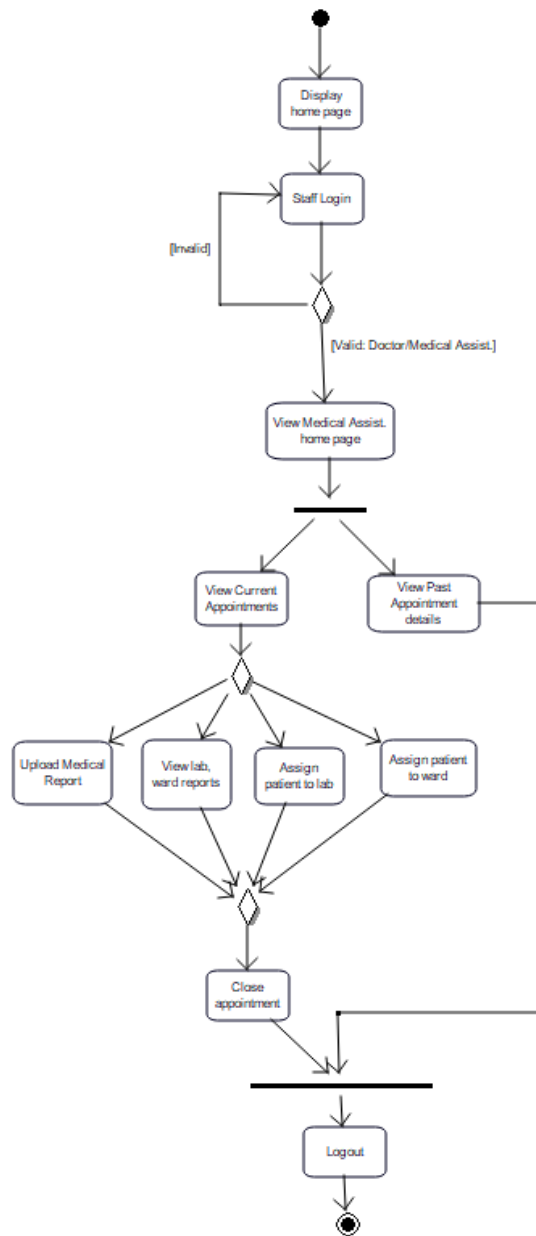


Figure 2.5: medicalAssiatant Activities

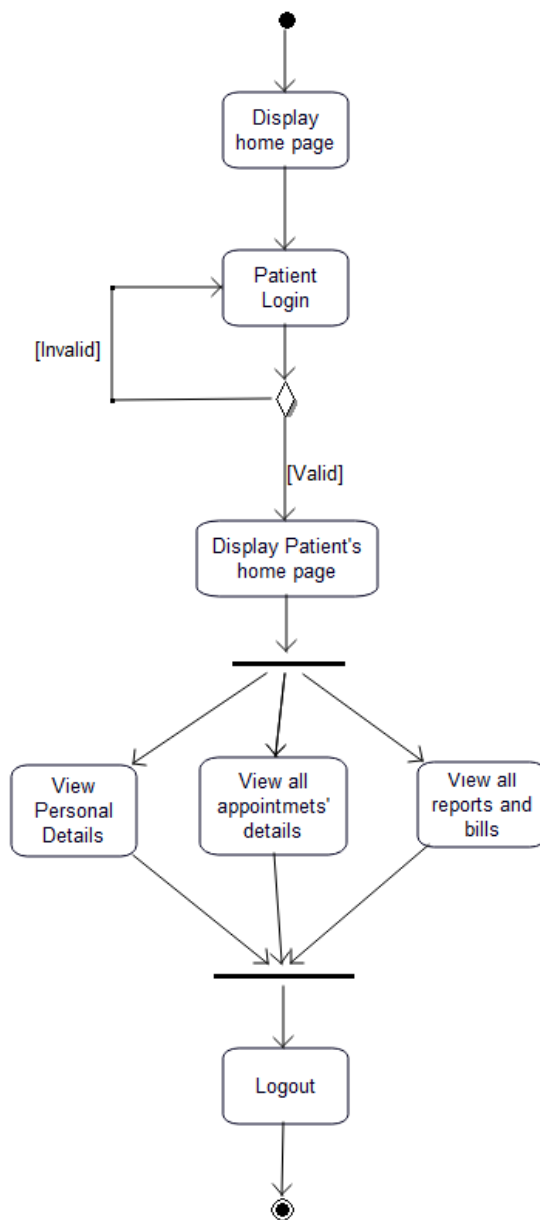


Figure 2.6: patient Activities

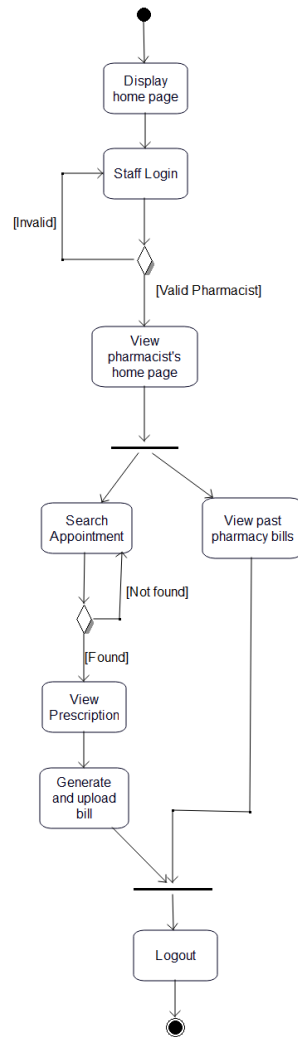


Figure 2.7: pharmacist Activities

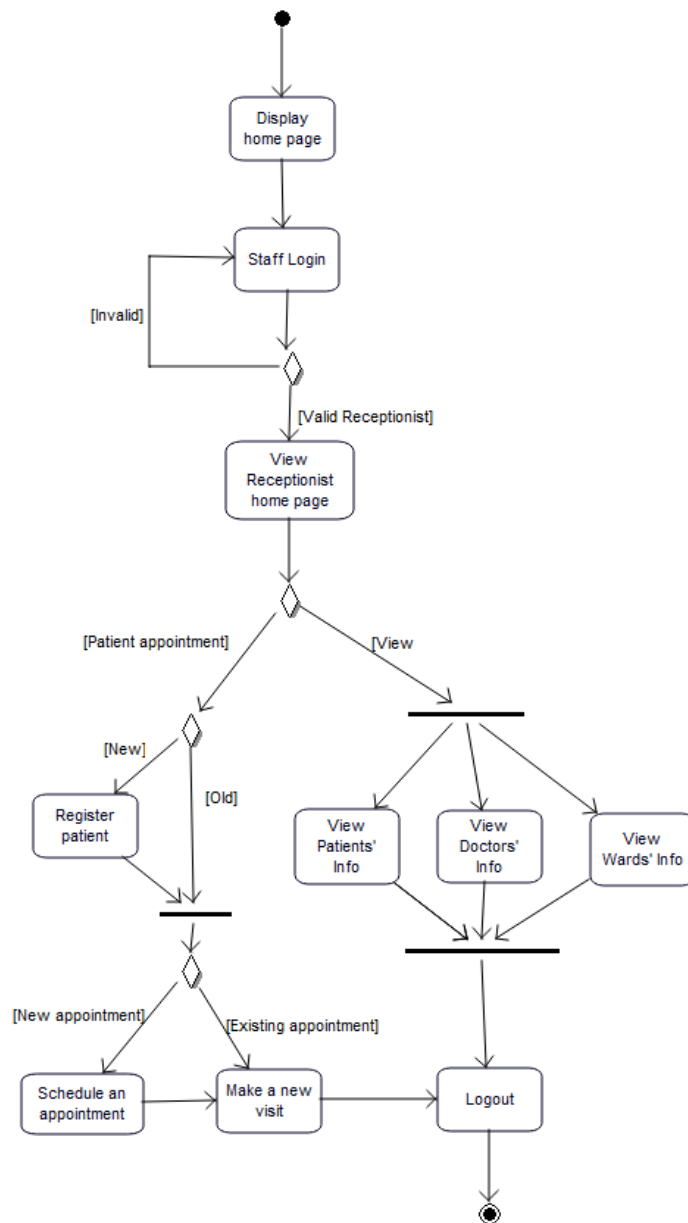


Figure 2.8: receptionist Activities

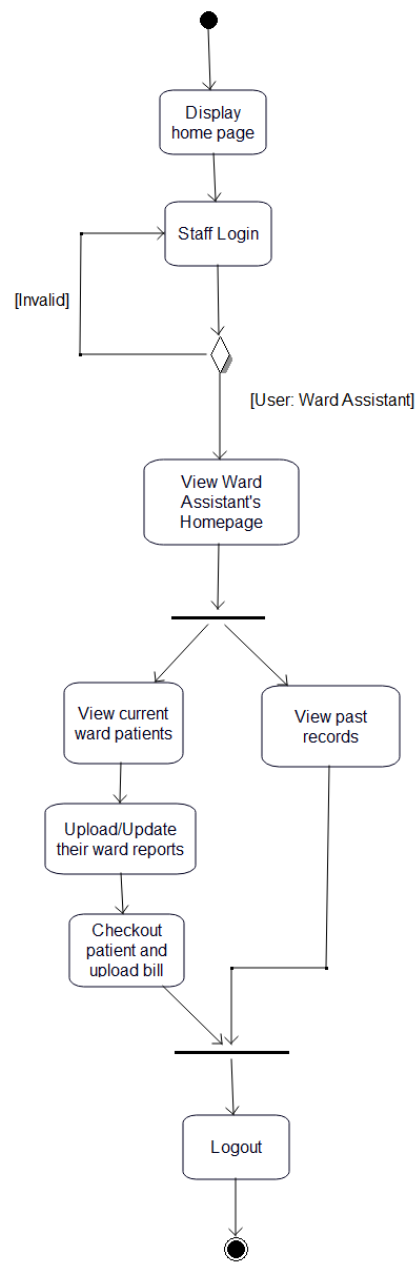


Figure 2.9: Ward Activities

2.2.2 Sequence Diagrams

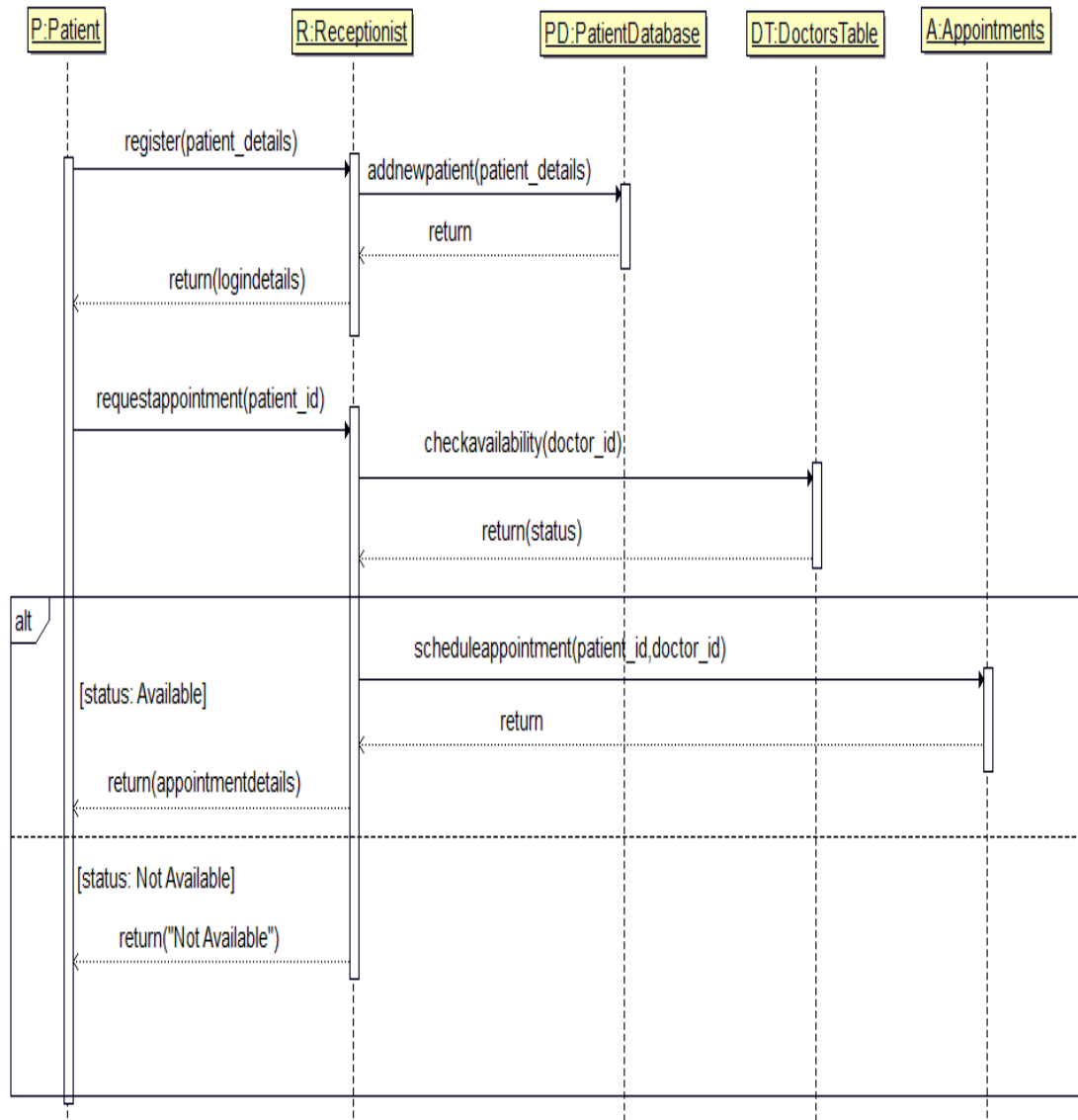


Figure 2.10: Sequence diagram 1

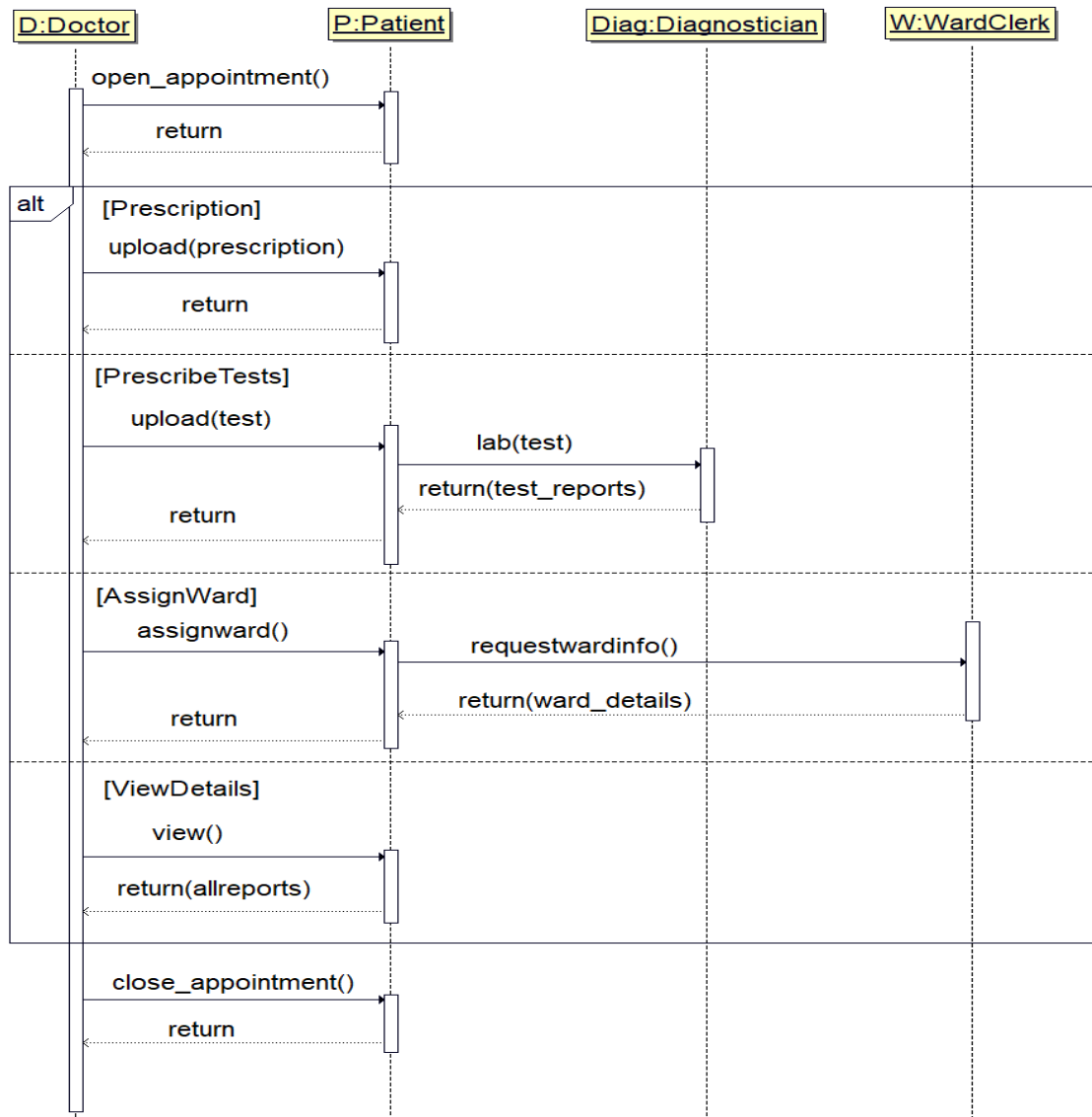


Figure 2.11: Sequence diagram 2

2.2.3 Use Case Diagrams



Figure 2.12: use case diagram

2.2.4 Class View diagrams

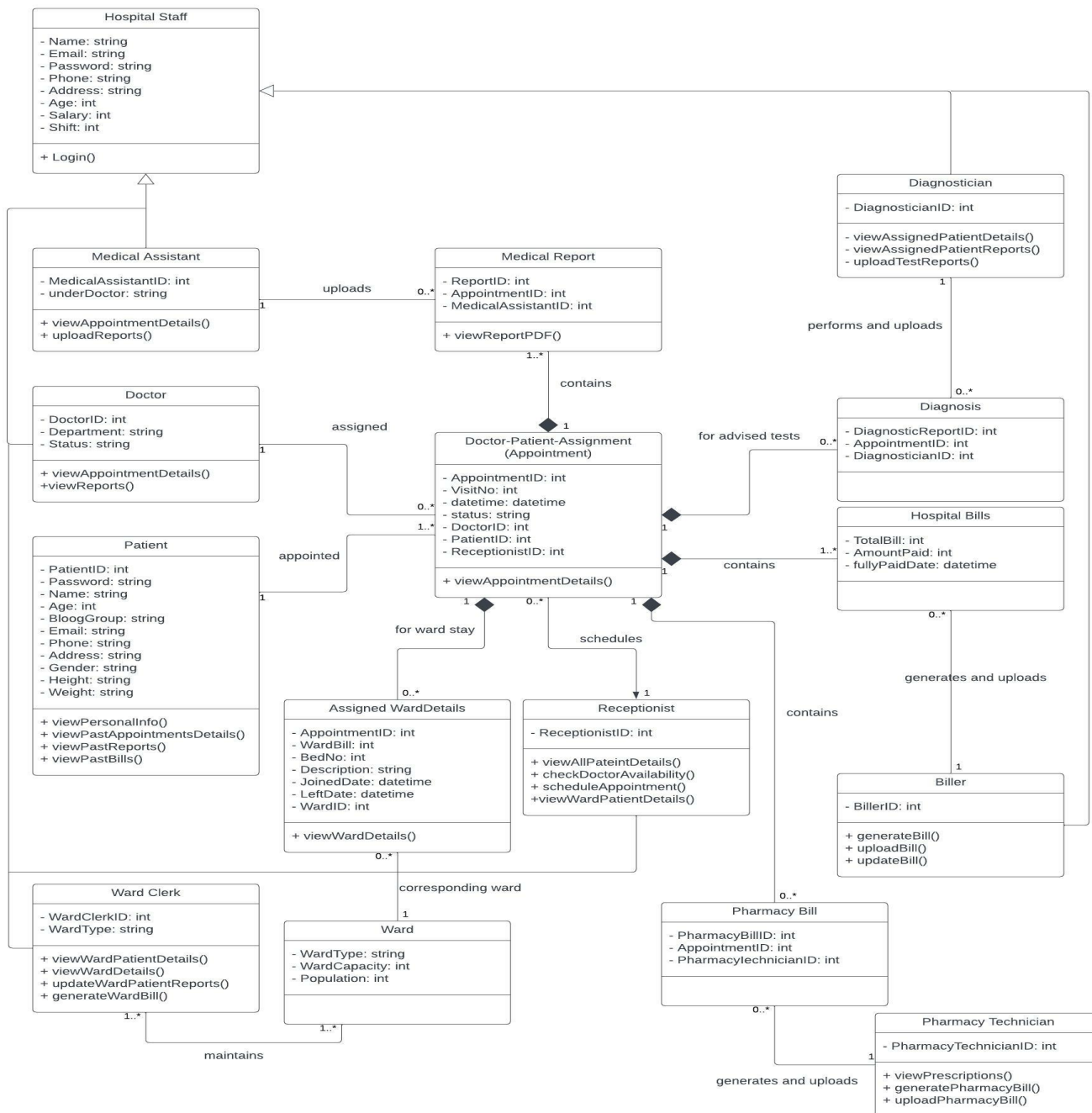


Figure 2.13: class view diagram