



SALAMTAK

Clinic program

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SOFTWARE ENGINEERING I

Table of Contents

| | |
|--|-----------|
| CHAPTER 1: Introduction | 3 |
| Purpose | 4 |
| Motivation..... | 4 |
| Summary | 4 |
| Chapter 2: Description..... | 5 |
| Secretary : | 6 |
| Doctor: | 8 |
| Chapter 3: System Analysis..... | 10 |
| Use Case Diagram | 11 |
| Class Diagram | 12 |
| Sequence Diagram..... | 13 |
| 1- secretary add new patient | 13 |
| 2- secretary add appointment for an old patient..... | 13 |
| 3- Doctor add diagnosis and medicine..... | 14 |
| Activity Diagram | 15 |
| 1- New button..... | 15 |
| 2- View Button | 15 |
| 3- Prescription Button..... | 16 |
| 4- Appointment Button | 16 |
| Chapter 4: Design Prototype..... | 17 |
| secretary model..... | 18 |
| Doctor model..... | 19 |
| Chapter 5: Testing | 20 |
| Test case for view button..... | 21 |
| Test case for file button | 21 |
| Test case for new button | 21 |
| Test case for Today Visits button | 22 |
| Test case for appointment button..... | 22 |
| Test case for admin button | 22 |
| Test case for prescription button | 23 |
| Test case for Print button | 23 |
| Chapter 6: Tools and References | 24 |
| Tools..... | 25 |
| References..... | 25 |

CHAPTER 1:

Introduction

Computers are important tools in nearly every profession, so almost everyone can benefit from using an application, which is why we made this application to deal with clinics so easily. The goals of the digital clinic are to improve both access to and quality of care through the ethical integration of digital technologies into clinical workflows, evidence-based care, and shared decision-making in a sustainable and scalable manner.

Purpose

The clinic system was introduced to improve the working of clinics because of huge changes in management. Nowadays, the clinic system is important because of the wide spread of technology. This system was proposed for those clinics that still use paper to record patient history and disease history, and basically there are no such systems in the clinic. So, this system aims to efficiently manage the work of the clinic. The clinic nowadays consists of a doctor and a secretary, and the traditional paper-based management method has caused a lot of problems for the patient, so this system will help the patient in the clinic system.

Motivation

Salamtak makes it simple for you, the clinic owner, to administer your clinic by computerizing all of the clinic's activities. There are two types of models: secretary and doctor.

- Secretariat may add a new patient, and if he has visited before, his history will be kept in the application. You can arrange an appointment for future patient visits. You can quickly view all of a patient's personal information, as well as add any observations or analyses that the doctor requests. Finally, you may view the daily visit statistics.
- The doctor model allows the doctor to quickly check the patient's history. He'll also write the diagnostic and medical summary in an easy-to-understand format that may be stored in the patient database. Finally, he will offer the patient a printed prescription that he can keep.

Salamtak will make the clinic's life cycle easy and will reduce a lot of time. Use slamtak to make your life easier.

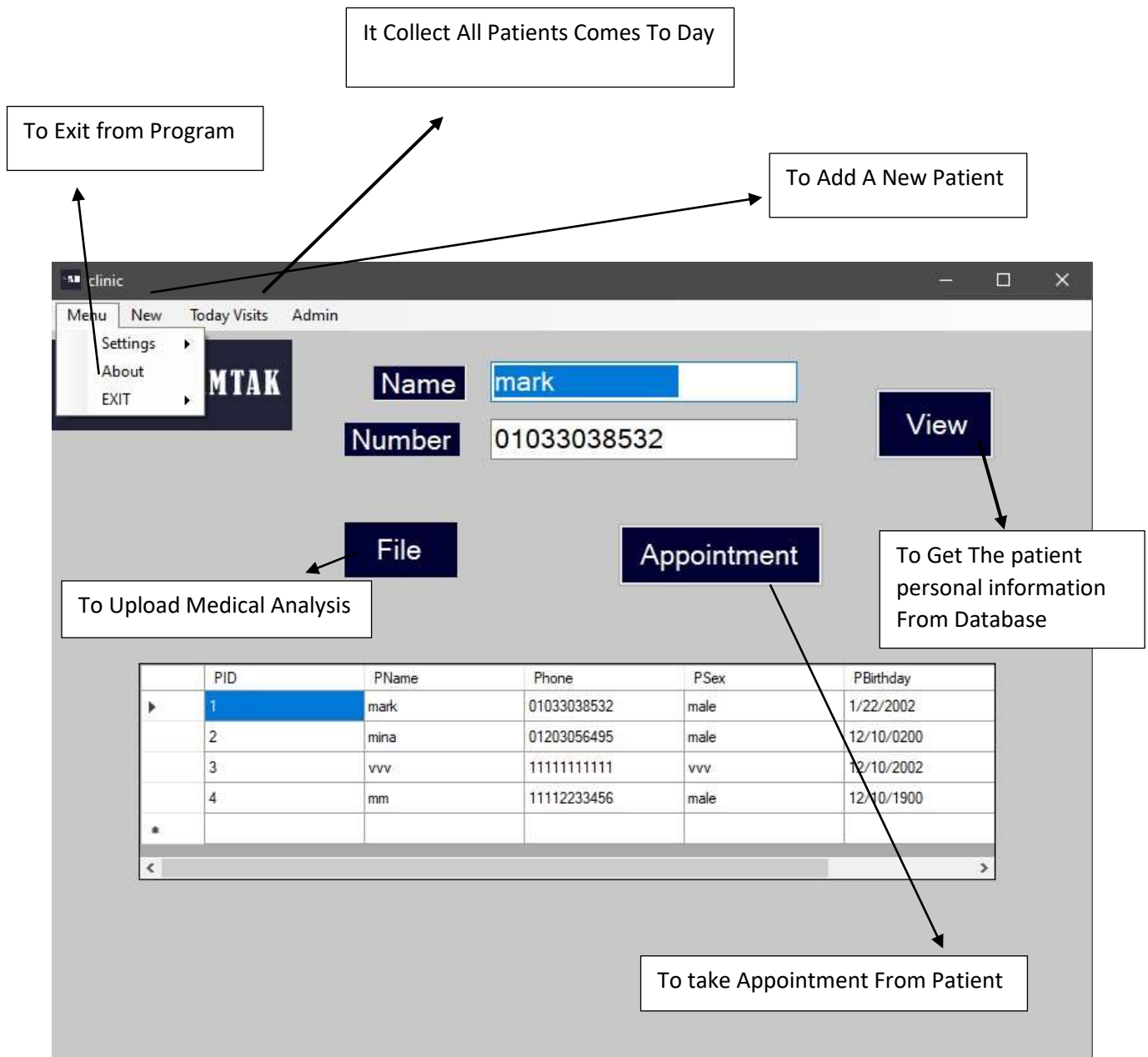
Summary

This application is for two people. The first is the secretary, who works to upload information into the application such as new patients, searching for old patients, scheduling appointments for patients, uploading medical analyses to the doctor, and taking vistas from patients and entering them into the application to see if all patients arrived today. second one is the doctor. S/he views the old prescription and some old notes that they put it to the next time, makes the new prescription, like diagnosis and medicine, and prints the new prescription for the patient.

Chapter 2: Description

Secretary :

Secretary home page



Page for the new patient

| | PID | PName | Phone | PSex | PBirthday | PAge |
|---|-----|-------|-------------|------|------------|------|
| ▶ | 1 | mark | 01033038532 | male | 1/22/2002 | 20 |
| | 2 | mina | 01203056495 | male | 12/10/0200 | 21 |
| | 3 | vvv | 11111111111 | vvv | 12/10/2002 | 20 |
| | 4 | mm | 11112233456 | male | 12/10/1900 | 35 |
| • | | | | | | |

Write or Delete in the Database

Update

To Insert, Delete, and Save in the Database

Page for the Appointments

Number

View

To write the phone Whose want to Appointment

| | PID | Phone | lastVisit |
|---|-----|-------------|-----------|
| ▶ | 1 | 01033038532 | |
| | 2 | 01203056495 | |
| | 3 | 11111111111 | |
| | 4 | 11112233456 | |
| • | | | |

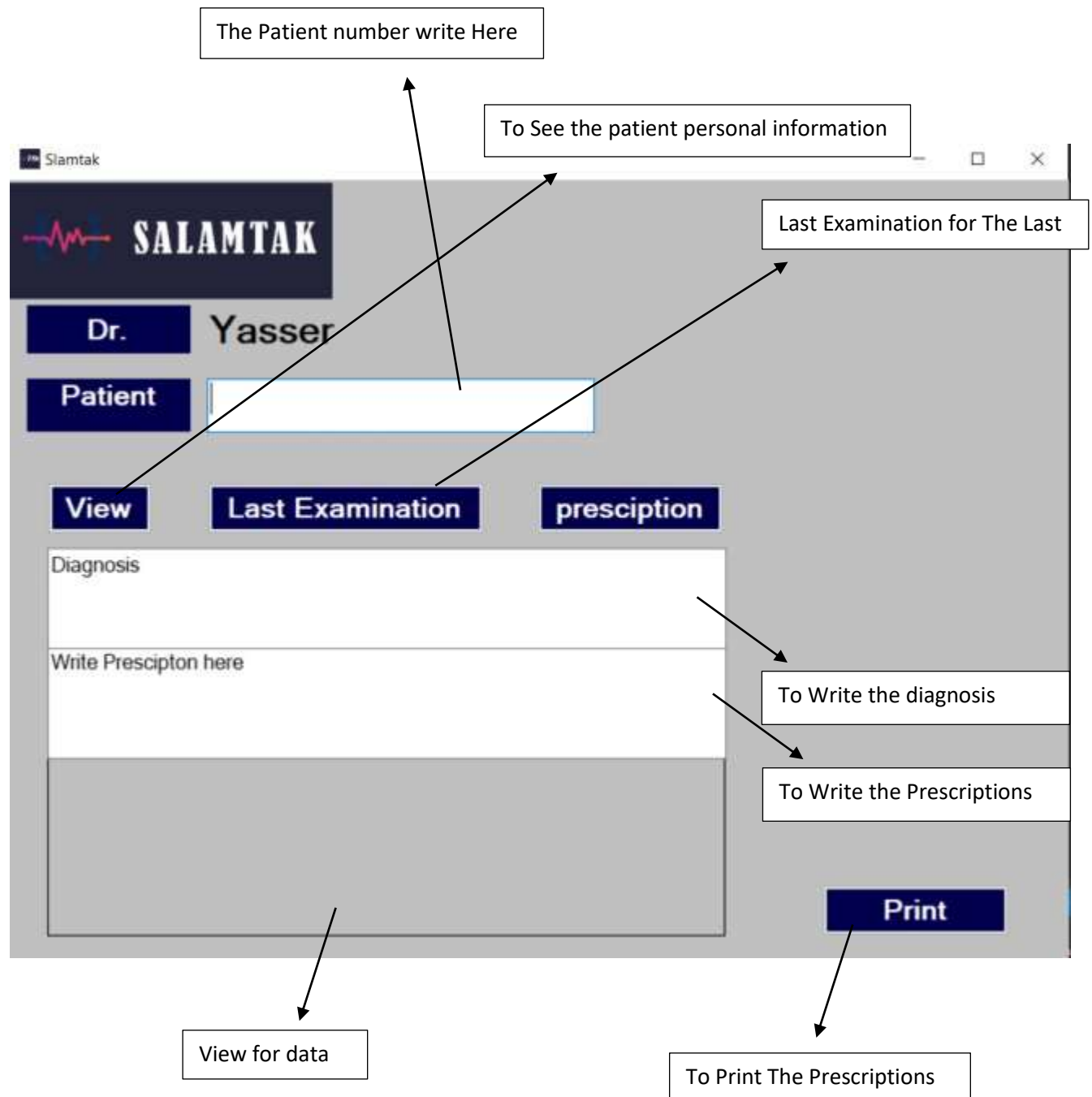
Update

To Insert, Delete ,and Save in the Database

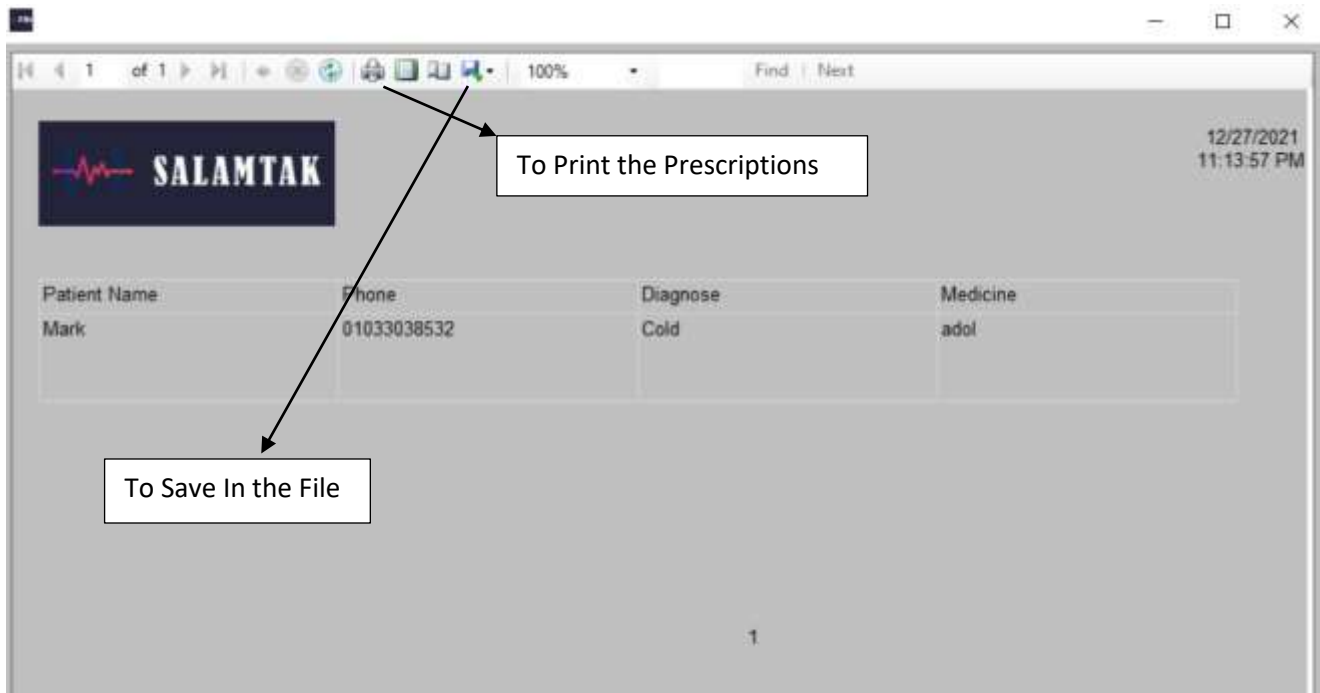
Monday, December 27, 2021

Doctor:

Doctor home page



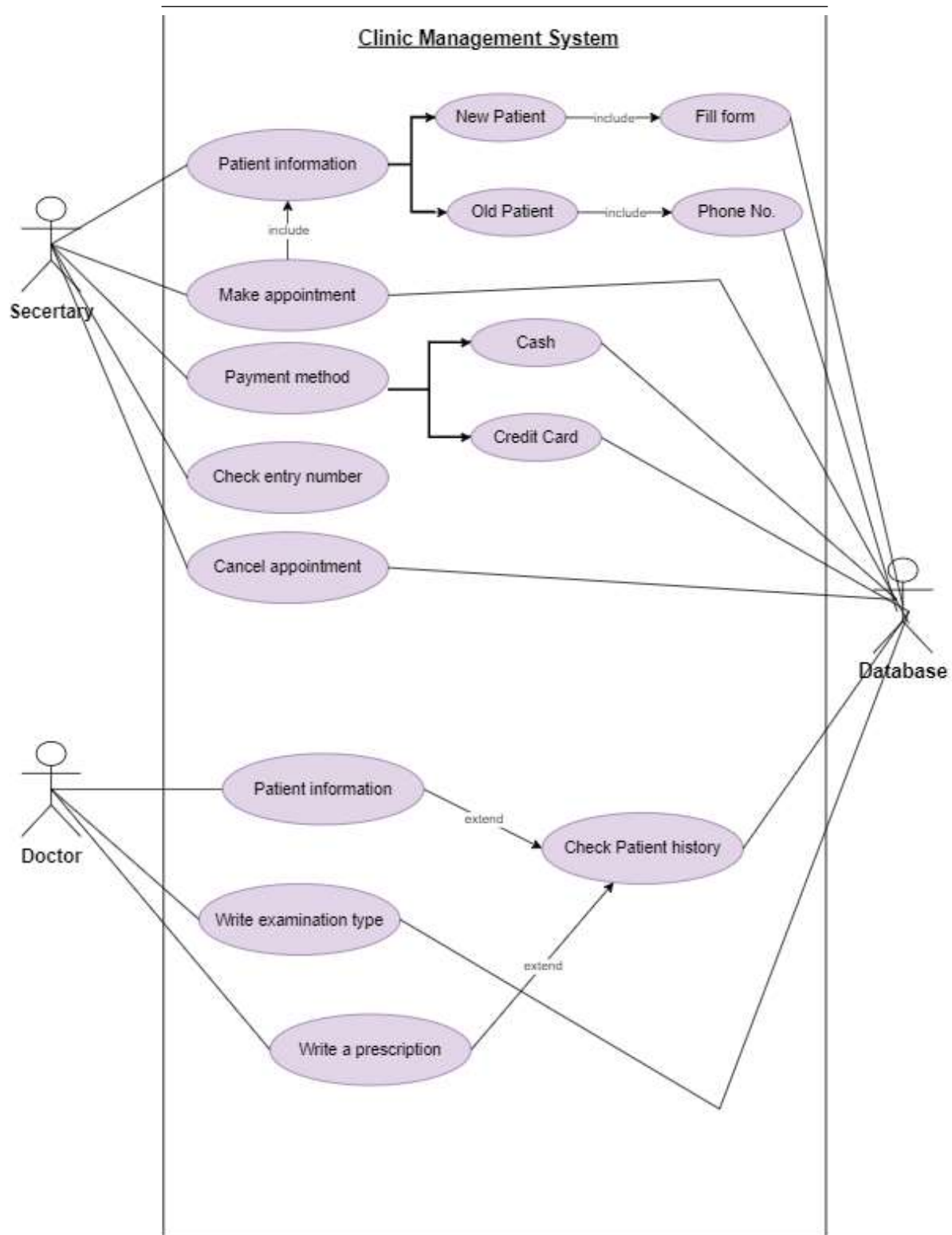
Print prescription



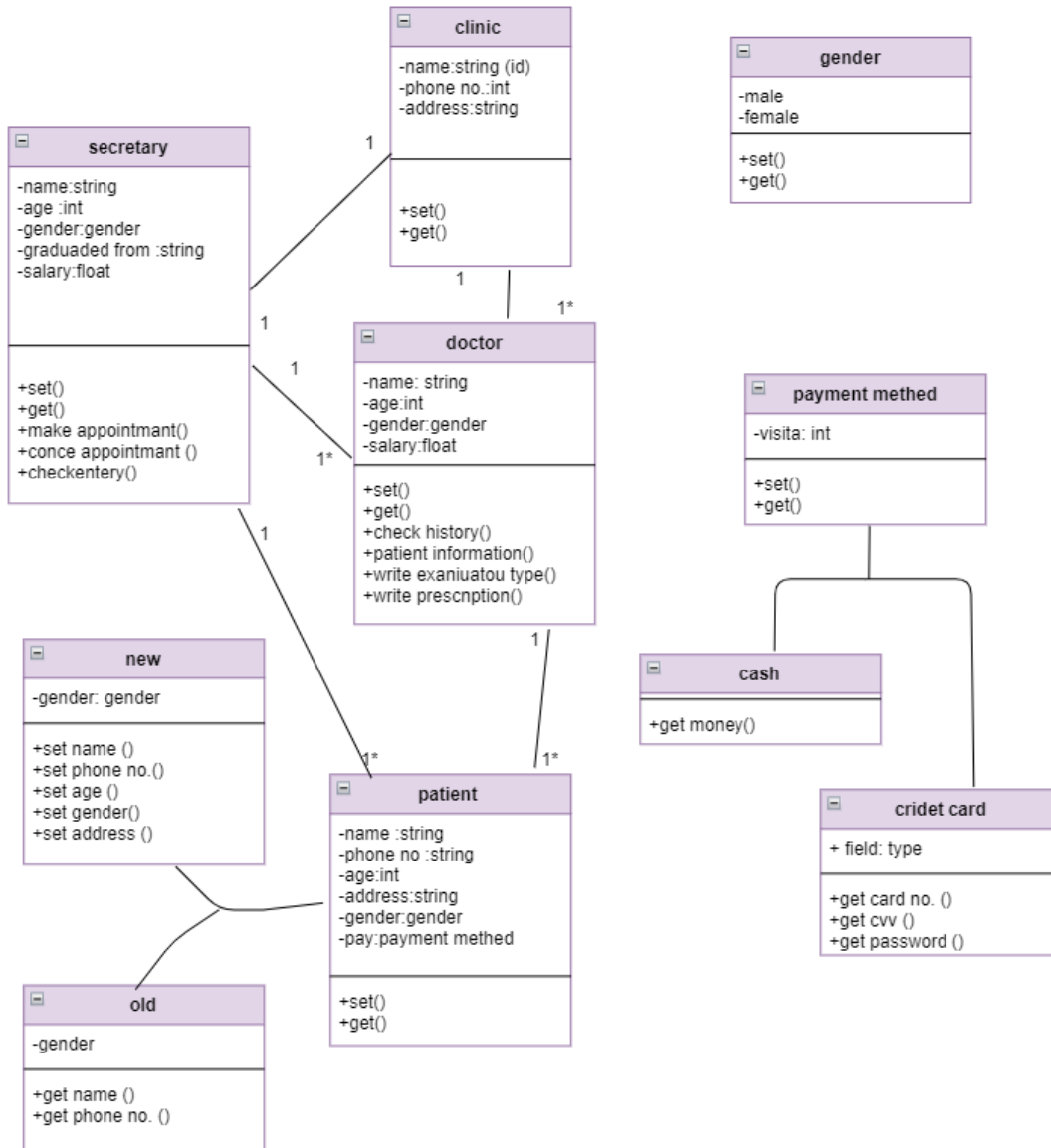
Chapter 3:

System Analysis

Use Case Diagram

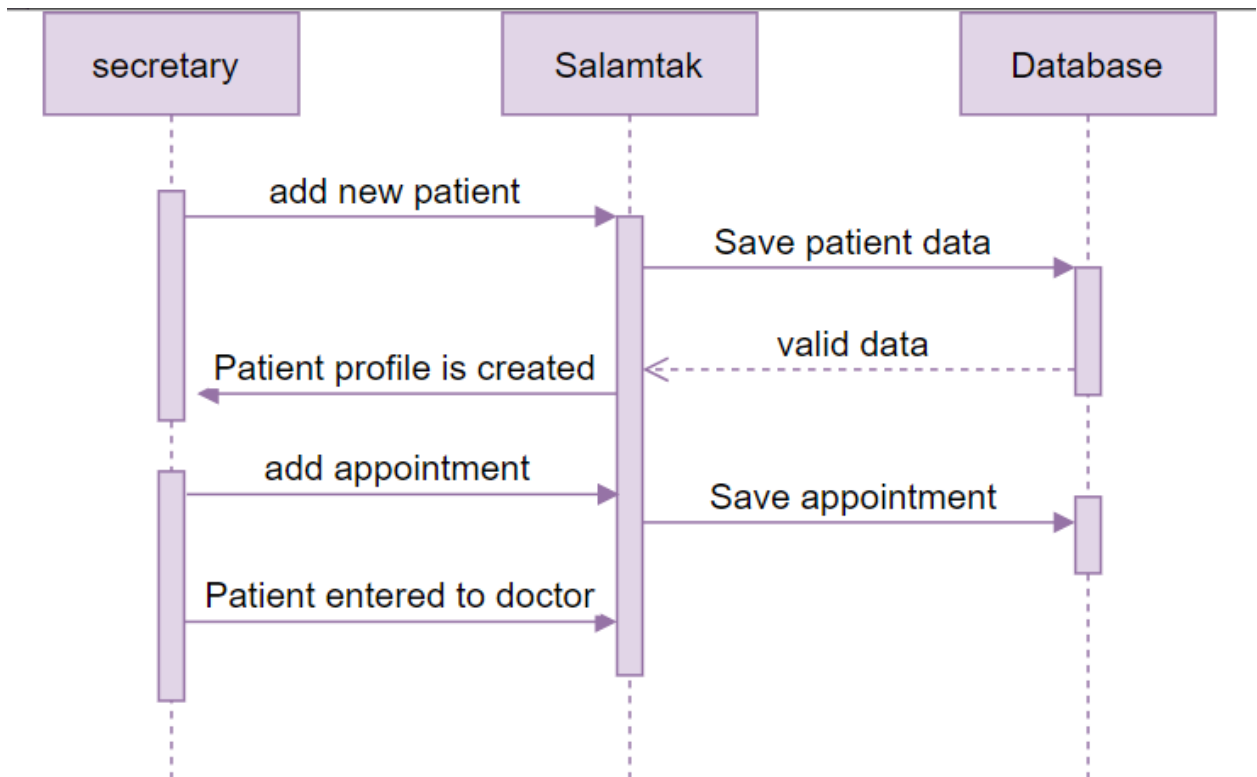


Class Diagram

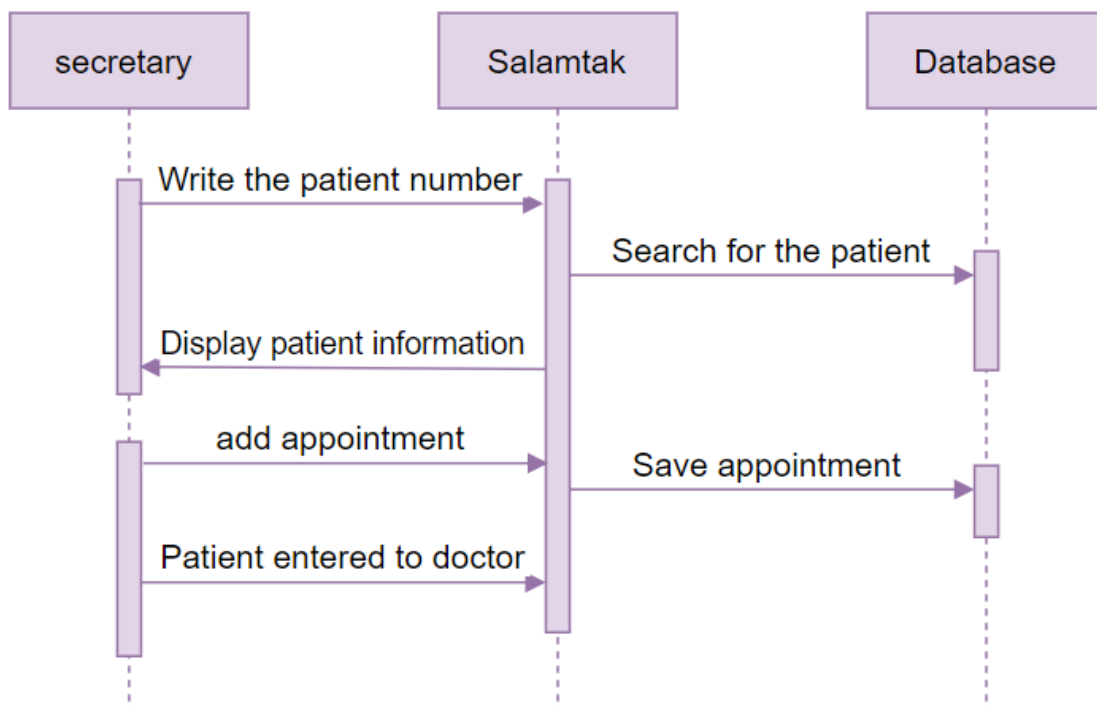


Sequence Diagram

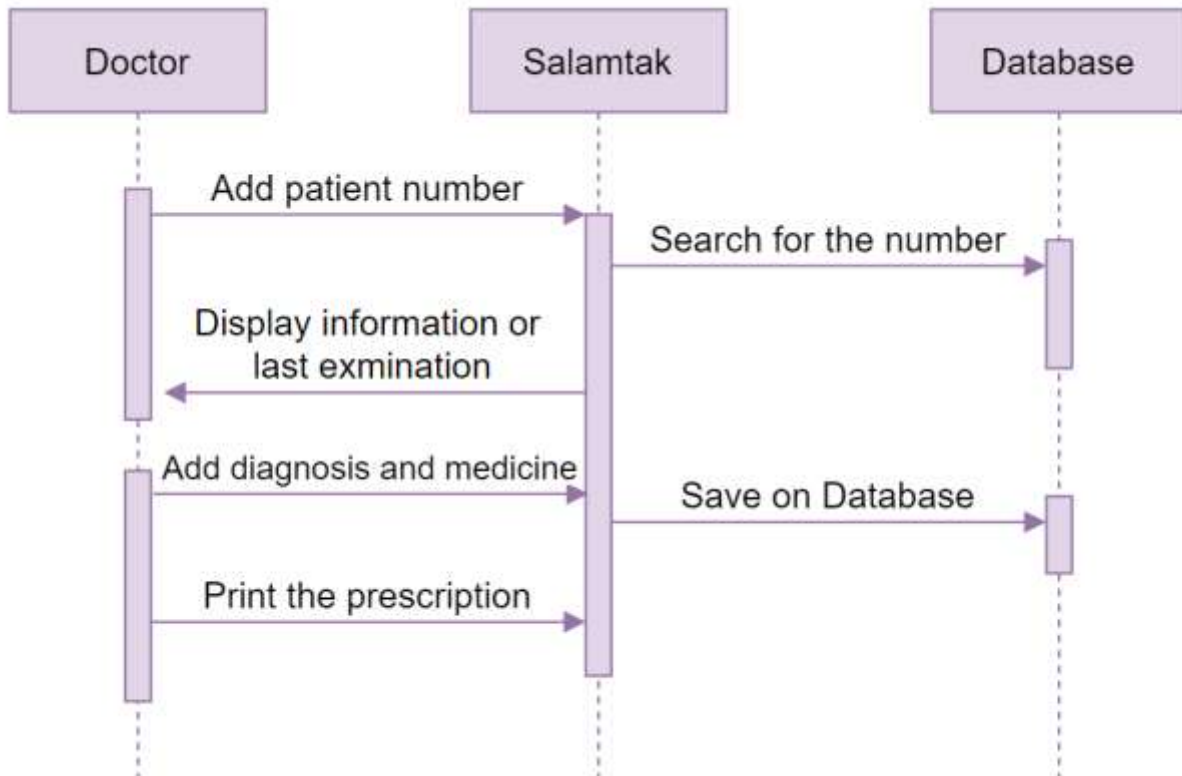
1- secretary add new patient



2- secretary add appointment for an old patient

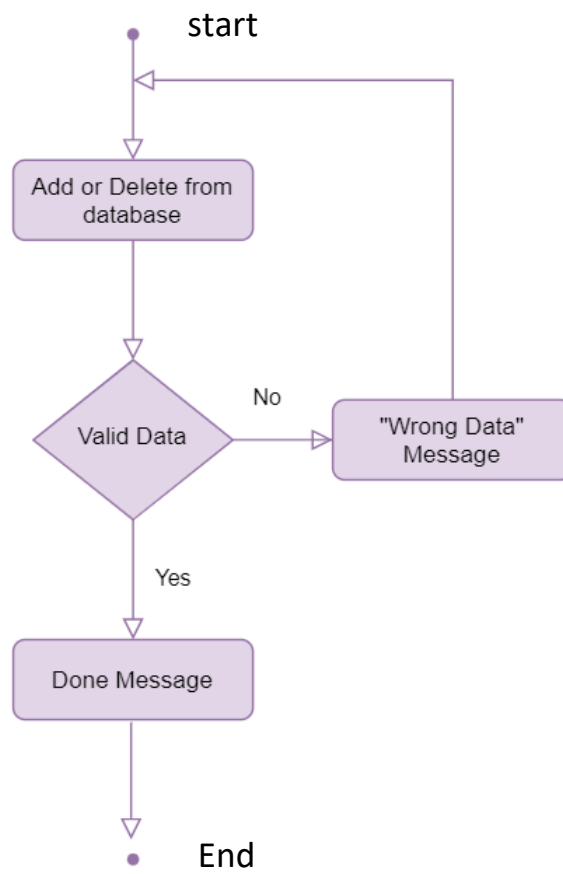


3- Doctor add diagnosis and medicine

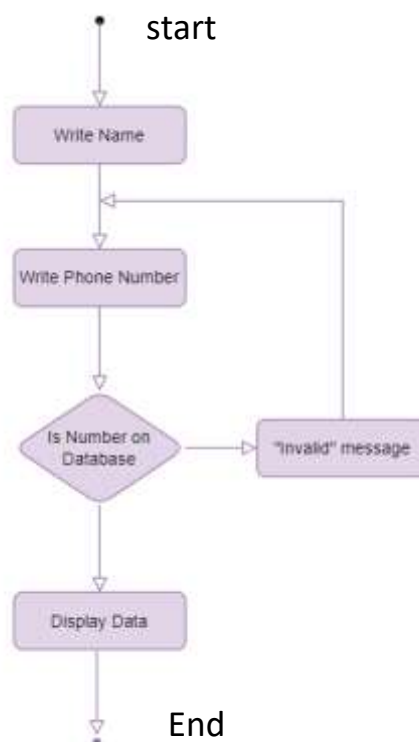


Activity Diagram

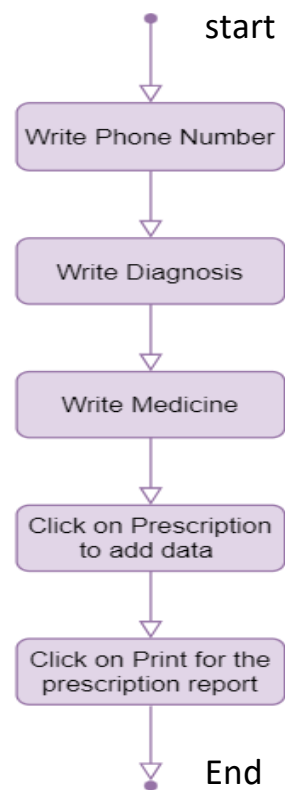
1- New button



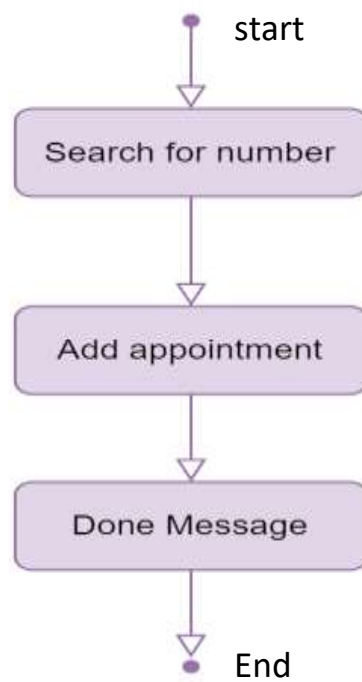
2- View Button



3- Prescription Button

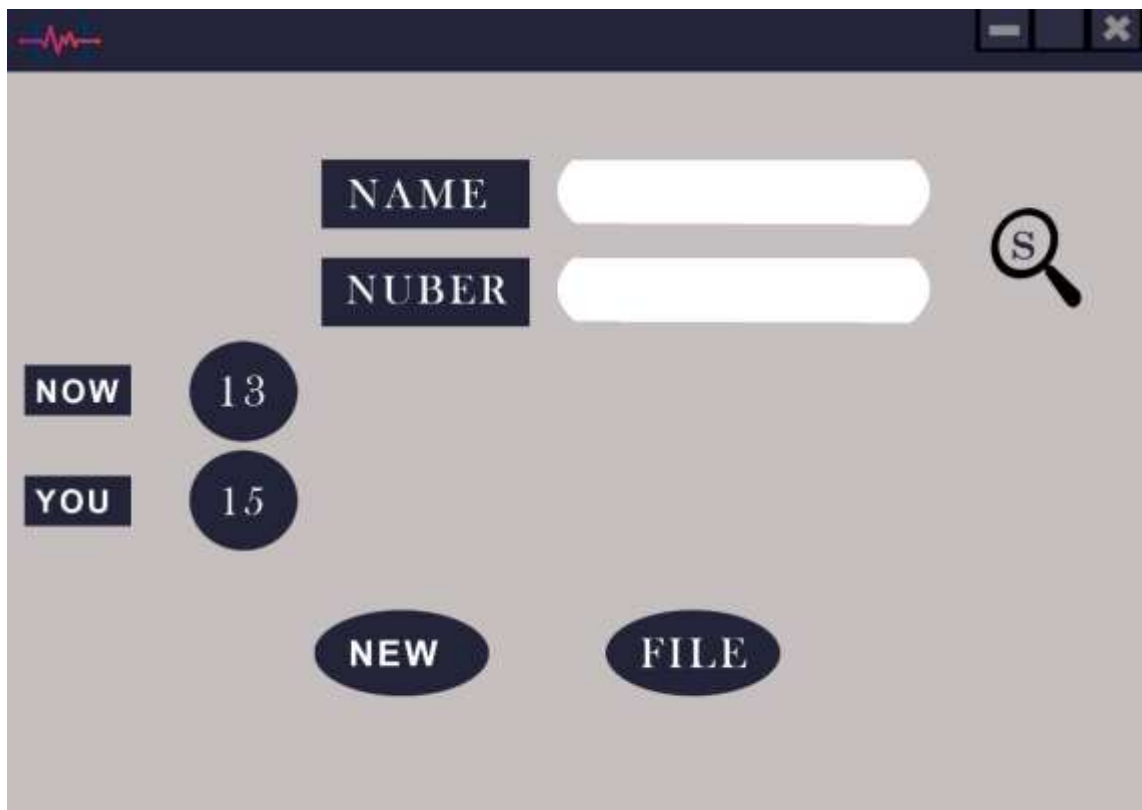
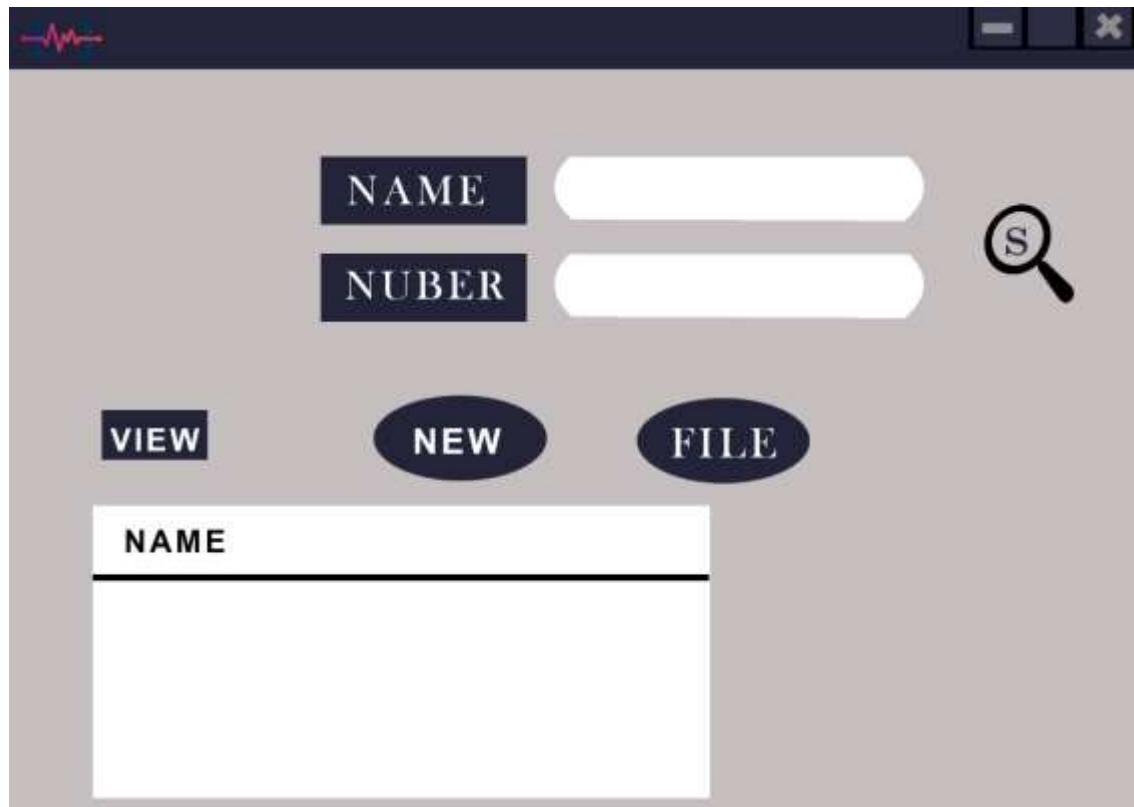


4- Appointment Button



Chapter 4:

Design Prototype

secretary model

Doctor model

DR.

NAME

VIEW **NEW** **OLD**

DATE:

DIAGNOSE:

MEDICINE:

| M | D | TIME |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |

Chapter 5: Testing

Test case for view button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|------------------|---|---|---------------------------|-----------------------------------|
| 1 | Click on view | 01033038532 | Show all this number personal information | Show all this number personal information | Pass | |
| 2 | Click on view | 01224239389 | Show non on the grid view | Show non on the grid view | pass | This number not saved on database |
| 3 | Click on view | " " | "Invalid" msg | "invalid" msg | Pass | |

Test case for file button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|----------------------------------|------------------------|----------------------|---------------------------|--------------|
| 1 | Click on save | Import files of medical analysis | Files added | File added | Pass | |
| 2 | Click on save | Import empty file | "invalid" msg | "invalid" msg | pass | |

Test case for new button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|---|------------------------|----------------------|---------------------------|--|
| 1 | Click on update | Add personal information for the patient | "Success" msg | "Success" msg | Pass | If data not completed that's because the database is ok with null data |
| 2 | Click on update | Delete personal information for the patient | "Success" msg | "Success" msg | pass | |

Test case for Today Visits button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|-----------------------|---|------------------------|----------------------|---------------------------|--------------|
| 1 | Click on Today visits | Show statistics of patient visits today | Show statistics | Show statistics | Pass | |

Test case for appointment button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|------------------|---|-------------------------------------|---------------------------|-------------------------------|
| 1 | Click on view | 01033038532 | Show all appointment of this number | Show all appointment of this number | Pass | |
| 2 | Click on view | 01224239389 | Show all this number personal information | Grid view is empty | Pass | Number hasn't appointment |
| 3 | Click on update | 01033038532 | "Success" msg | "Success" msg | Pass | Appointment saved on database |

Test case for admin button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|---|--|--|---------------------------|--------------|
| 1 | Click on admin | Write the correct username and password | Show all the data that accessed by administrator | Show all the data that accessed by administrator | Pass | |
| 2 | Click on admin | Write wrong username or password | "Invalid" msg | "Invalid" msg | pass | |
| 3 | Click on admin | Empty username or password | "Pease enter user name and password" msg | "Pease enter user name and password" msg | Pass | |

Test case for prescription button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|-----------------------|--------------------------------------|--|--|---------------------------|-------------------------------|
| 1 | Click on prescription | Write the diagnosis and prescription | Add diagnosis and prescription to database | Diagnosis and prescription added to database | Pass | Data saved for number written |

Test case for Print button

| Steps | Test step | Test data | Expected result | Actual result | Status (Pass-fail) | Notes |
|--------------|------------------|--|------------------------|----------------------|---------------------------|--------------|
| 1 | Click on Print | diagnosis and prescription that saved for a patient number | Form for patient | Form for patient | Pass | |

Chapter 6:

Tools and References

Tools

- Visual studio 2019
- Microsoft SQL Server Management Studio 18
- draw.io

References

- poly clinic (Madinaty) مجمع عيادات مدينتي للأطفال
- Clinics Management System (CMS) based on Patient Centered Process Ontology