Leading University

Department of Computer Science and Engineering

CSE 4800

Project Title: Doctor's Portal

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5th April, 2022

Abstract

We here propose a doctor patient handling, managing system that helps doctors in their work and also patients to book doctor appointments and view medical progress. The system allows doctors to manage their booking slots online. Patients are allowed to book empty slots online and those slots are reserved in their name.

Acknowledgements

Dedication

We would like to dedicate our work to our parents, relatives and friends.

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Chapter 1

Introduction

Health care is an essential thing in life. Estimations suggest that health make a contribution numerous years to life expectancy. It additionally makes contributions possibly even greater to improving many human beings practical capability and fine of lifestyles. In Bangladesh, the health care machine is especially provided with the aid of the government with a very little price. However, this comes with many headaches. The huge number of sufferers makes it hard for the authorities hospitals to offer them with satisfactory fitness care. As an end result, lots of private hospitals are mounted so that you can meet the developing need of the loads for pleasant health care. But whilst one wish to take carrier from a clinic, he first attempts to collect a few statistics about that hospital. To reduce the health care problems in Bangladesh, we have developed a web-based application named doctor-patient portal for effective healthcare.

2.Work plan

After receiving approval for our project, we will divide our work as follows:

Deadline	Action
July-August,2021	Phase-1: ● Identification of source and materials. ● A clear justification for our frontend area and we will work on the front end first. ● A written smart goal for our project. ● A plan on how we achieve our goal.
September 2021	Phase-2: ● Identification of learning materials for learning backend. ● We will go through the front-end project by comparing it with our action plan. ● A clear justification for our Backend area and we will start work on the backend concerning our frontend.
October 2021	Phase-3: ● Continuation of backend ● We will check and justify the project according to our plan ● We will clarify the standard of the project.
November-December,2021	Phase-4: ● Testing, debugging, and finalizing the report. ● We will start working on our project book

Chapter 3

Structural Design

In the figure, it shows the context diagram of the system. Here three types of users interact with the system patient, doctor, and admin. The patient can request for an appointment. A doctor can see all of his appointments. And admin can supervise all the activities.
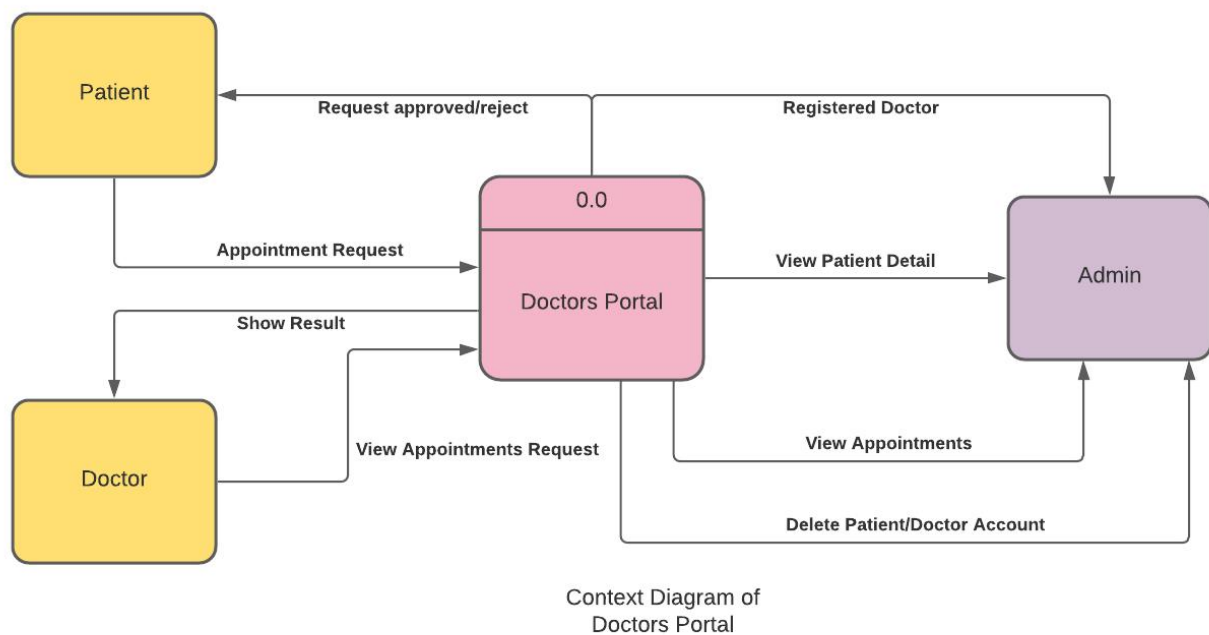
3.1 Context Diagram

Context Diagram of
Doctors Portal

Figure 3.1: Context Diagram
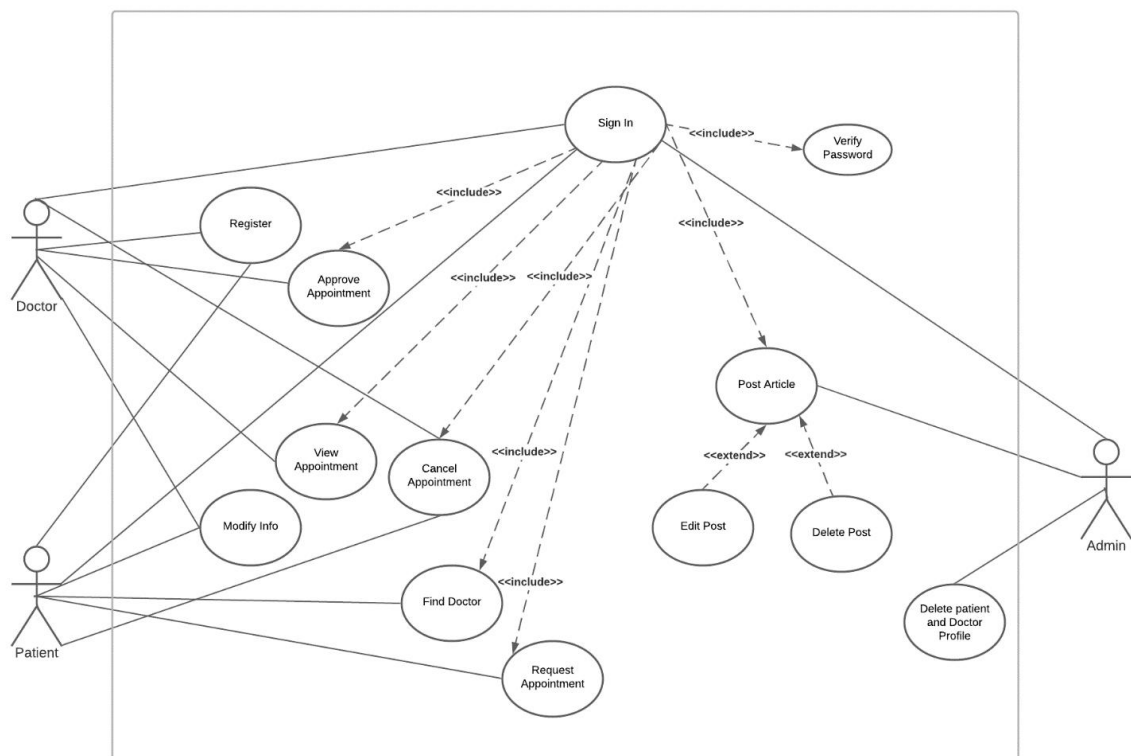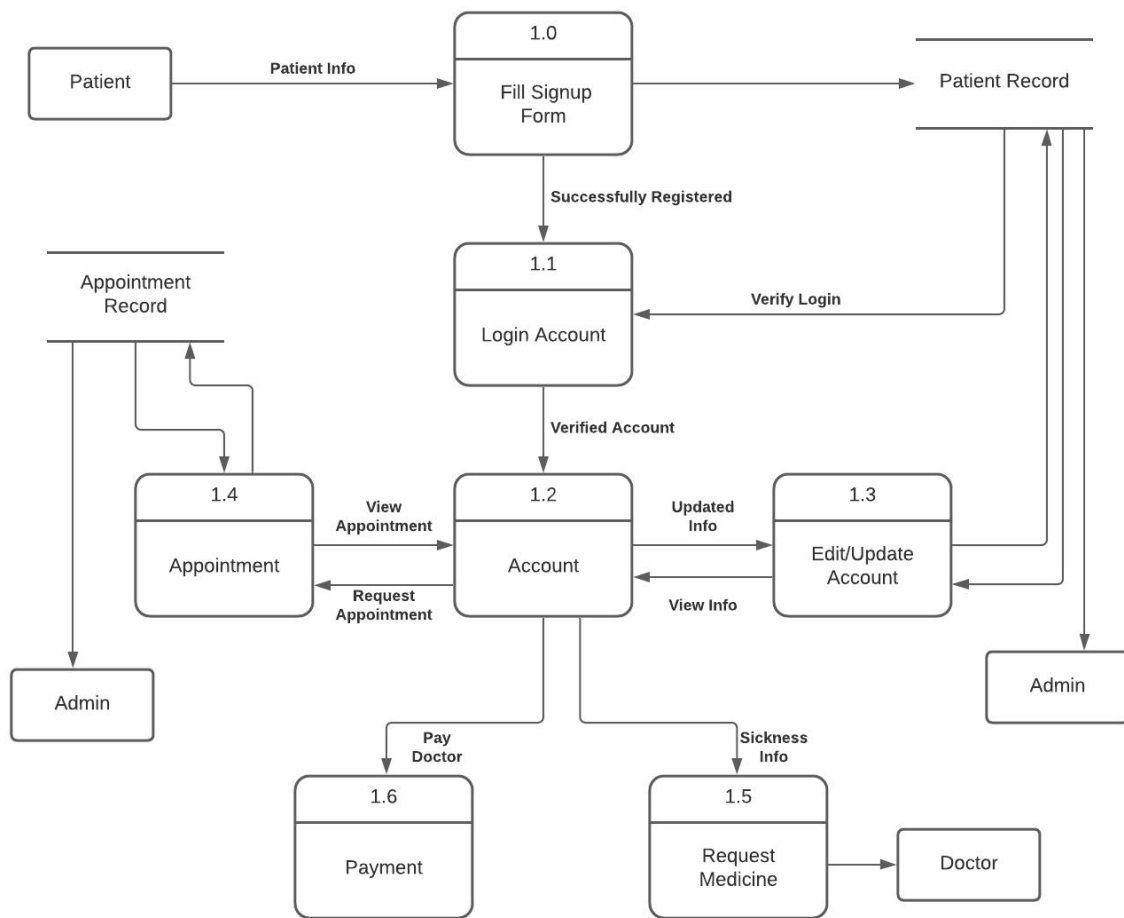
3.2 Use Case Diagram

Figure 3.2: Use Case Diagram

3.3 Level 1 DFD for Patient

In figure, it shows the level one DFD for the patient. It starts with the fill signup form process. After signup, then log in to your account. Information's are seen and retrieved from data store.

Data Flow Diagram of
Doctors Portal

Figure 3.3: Data Flow Diagram Level 1

3.4 Level 2 DFD

It is the expansion of the process 1.4 Appointment from level one DFD for patient. For appointment search doctor then select date after that select payment option. After successfully appointment it will notify to the patient account.
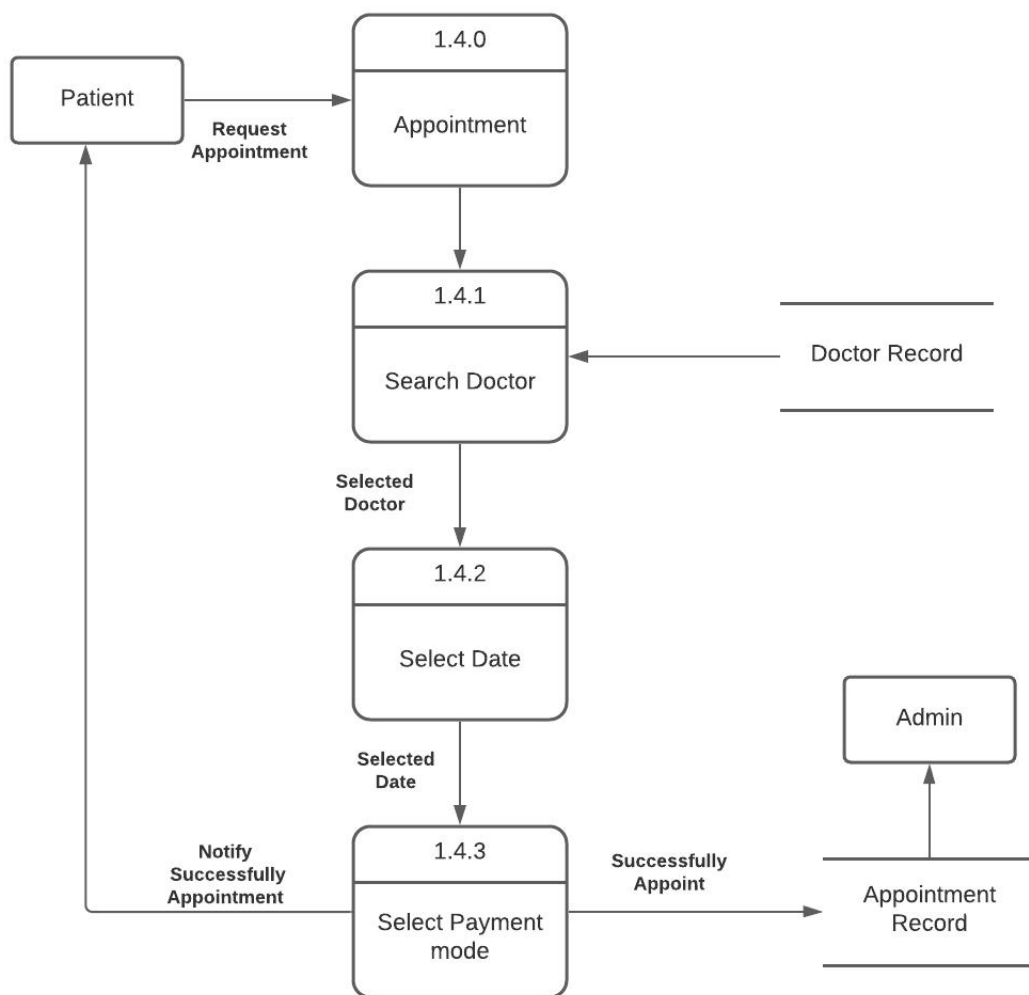

Figure 3.4: Data Flow Diagram Level 2

Chapter 4

Future Work

4.1 Future Work

This app can be improved in the future by adding the following functionalities:

• Extending to Apple iOS and Android.

• Create two separate apps for doctor & patient.

• Sharing the medical test reports of patients to doctors through this app.

• Supporting video calls to discuss the problems with doctors.

Chapter 5

Conclusion

The major goal of this application is to create online interaction between doctors and patients, to fulfill the basic needs/problems of the patients. Patients can update their problem to doctors by messaging and get advice from the doctor. Our web application serves as the platform for easy and quick treatment, with extended support from doctors to patients. Doctors Portal has unique features such as issuing online prescription to patients, referring patients to a specialist, sending health tips to patients, and finally, reducing the cost of customer service and providing a vital communication link between doctors and patients.