North South University

CSE482.4

Project Report

Topic: Online Doctor Patient Portal

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1.0 Introduction

"Digital Doctor"-an online doctor appointment system has been developed to override the problems prevailing in the practicing manual system. This website is supported to eliminate and in some cases reduce the hardships faced by the existing system. Aim of this project is to create doctor patient appointment portal system that will help doctors in their work and will also help patients to book doctor appointments. This system allows patients to book empty slots online and those slots are reserved in their name. The system manages the appointment data for multiple doctors of various date and times. The system will make it easy to manage various doctors and their availability on various dates and timings. Weekly schedules of doctors are shown in the website. There are three entities that will have the access to the system. Admin, doctor and another one will be the registered user. Patients will be given unique Ids. Users need to register with basic registration details to generate a valid username and password also user can use their google, email, Facebook and phone. Whenever a patient books a doctor, the admin handles the booking. Admin decides whether to confirm the appointment or delete. The user is notified whatever has been taken, later though e-mail. Admin can also add new doctors and update doctors profile.

Medicine buying is another feature of this system. After the user logins, he/she can view all the medicines available in stock and order accordingly. There are different categories for different medicines. If the user is interested to buy, the system will give add to cart option for purchasing the medicine. After confirmation of user's details like address, phone number etc. User can proceed to checkout. Payment can be made using Paypal account.

1.2 Objectives

❖ To Create Web based online Doctor Appointment management system.

❖ To manage all patients related information.

❖ To manage all doctor related information

❖ To lead to error free, secure, reliable and fast management system.

❖ To track all the bookings and manage it timely.

❖ To select desire medicine

❖ To add the item to the cart

❖ To purchase the medicine

1.3 Functionalities

- **Admin Login:** The system is under supervision of admin who manages the bookings, doctor details and transaction details.
- **User login/registration:** Users have to first register themselves to login into the system.
- **Medical History:** System allows updating and viewing patient medical history.
- **Doctor Search:** System allows for doctor search through categories and name
- **Appointment availability check:** User can click on spaces to view the availability.
- Admin can manage the information of Doctor, information of appointments.
- **Appointment booking online for date and time:** Users can book appointment for according to their required date and time.
- **Add to cart**
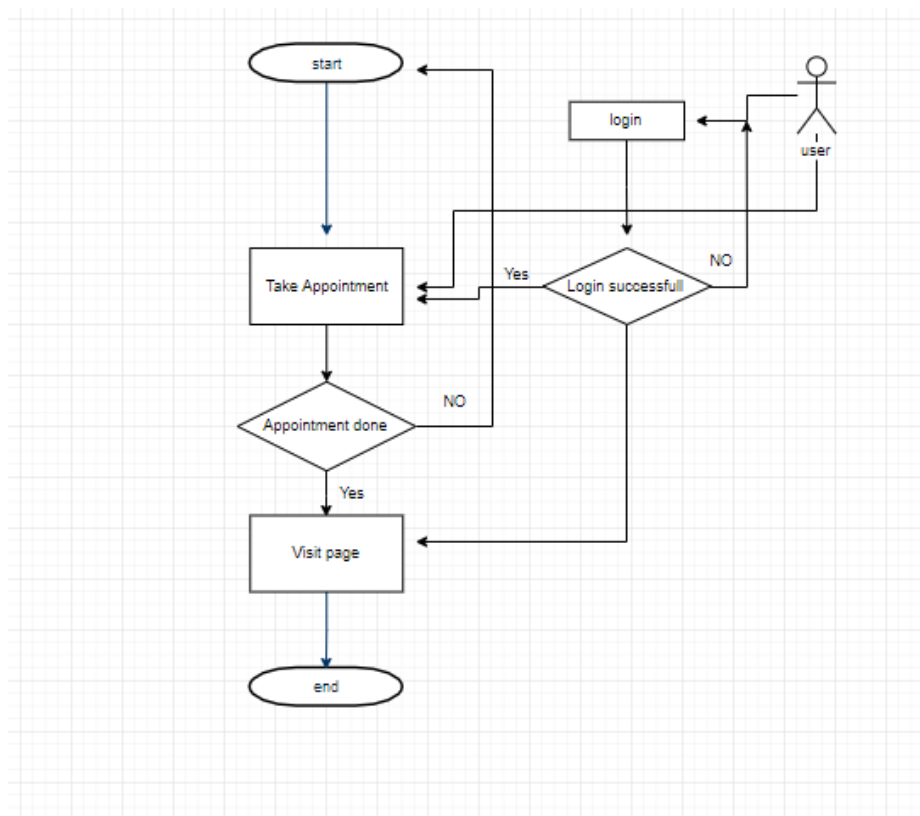- **Payment process**

1.4 Justification of study

We implement this system for better user experience. This system is very easy to access. Also for establish real time communication, using modern and updated technology. So, user can see the update without reload or refresh. This system will compatible with user computer. So user can easily access the system anytime anywhere. This system is very simple & user friendly so, any user can use this system easily.
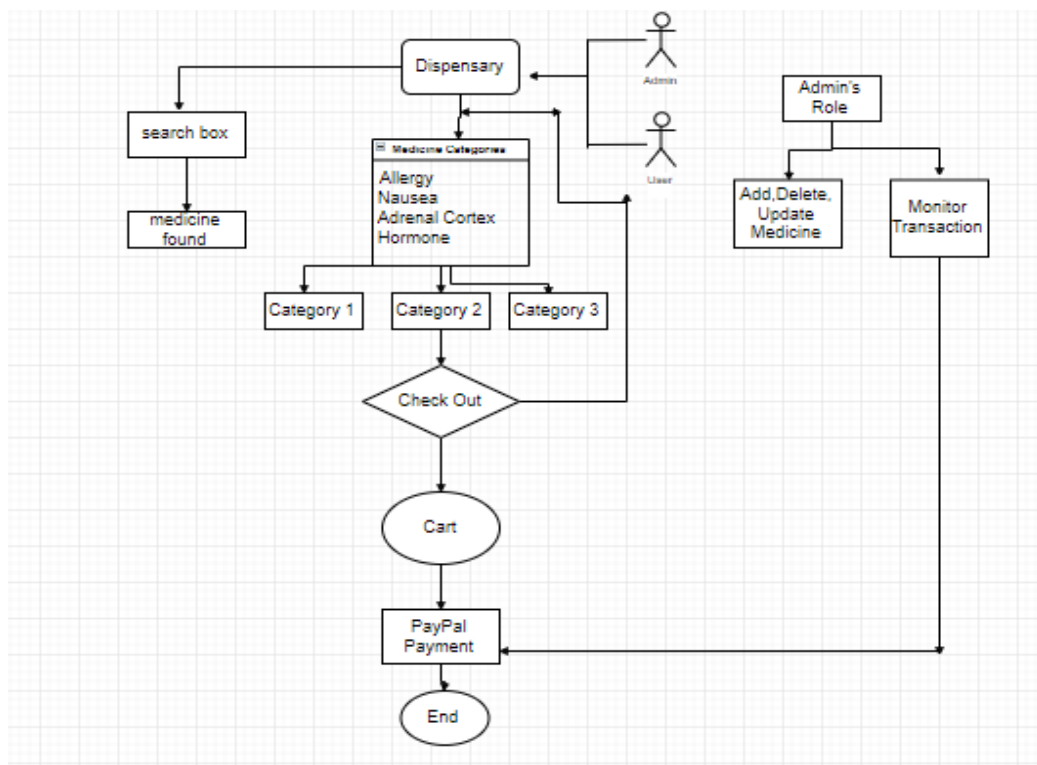
1.5 Scope of the work

- ❖ There is huge collection of doctor information.
- ❖ Patients get email from the system.
- ❖ Hospitals and small clinics can use this system for efficient appointment management.
- ❖ Pharmacy shops

2.0 System Flowchart

UML Diagram for Digital Doctor

UML diagram for Dispensary

3.0 System Development

We have used the following:
- HTML & CSS
- PHP
- BOOTSTRAP
- MYSQL database
- LARAVEL
- GOOGLE MAP API
- PAYMENT GATEWAY (PAYPAL)
- GITHUB (for maintaining our workflow)

We have used Laravel which is Model-View-Controller pattern framework. Our project has the following model views and controller.

Constraints

- The size of the database will increase day by day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operation is necessary for the user working on the system.

Future Work:

In our website the medicine buying process is not automated. We want to make it automatic. If a user uploads a prescription, then the medicine will automatically be uploaded to the cart. Now we don't have any delivery system we want it add it in future.