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FAMILY DOCTOR

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ABSTRACT

The traditional medical system landscape requires efficiency, speed and real time delivery system for optimal performance .The clients of most clinics in their world countries faces very large amount of issue. This include extra work for doctors and nurses during their service time, patients waiting in line for hours to have the doctor appointments and to increase workload for counter . The standard of medical services delivery has been checked by extra work load. This research paper will deal with the problems like the appointment system of the doctor who are needy and do not have the ability to wait for hours in long queue. In this there will be a android app for the appointment system in this we are using Android in the frontend, Sqlite3 and MYSQL for the backend **,** Ajax framework will take care of managing client-server request .

KEYWORDS: Client, Patient, Android, MySql.

I. INTRODUCTION

Globally Our Family Doctor App is very much useful in the current scenario. Now-a- days the patients does not have the will to wait for hurs in the queue to have the doctor appointments. But we are targeting this app use for the most and the needy one who cannot afford to wait for so long. Our app primarily accepts the request and then process it to the scheduling table it also does take notice of the need and the emergency with the patient needs the service. This finally reduces the mass gathering outside the clinic which is very much needed in the corona world.

II. METHODOLOGY

Object oriented analysis and design approach is used to complete the modeling and the implementation of our research. In this we have made an app using android which is basically used for the appointments of the doctor for the patents whenever a patients request to do so .In this we have used mainly four phase methodology which are as follow:-

1. Information Gathering: In order to make a successful research we need to make a very good research in the information gathering.

2. Modeling: After the information is gathered we have made 4 models to implement our research.

3. Design: Finally we have decided to choose one from the four models and then we have designed it

4. Implementation: Finally after the design we have successfully implemented our research.

- **Data Collection/Information Gathering**: In this information was gathered from the medical professionals and the patients and this was done manually.
- **Modelling**: In the modeling use case diagram and the data flow diagrams are used to represent the working of our research.
- **Design and Implementation**: Android is used to implement our app and the object oriented approach is used to perform the design and implementation of our research..

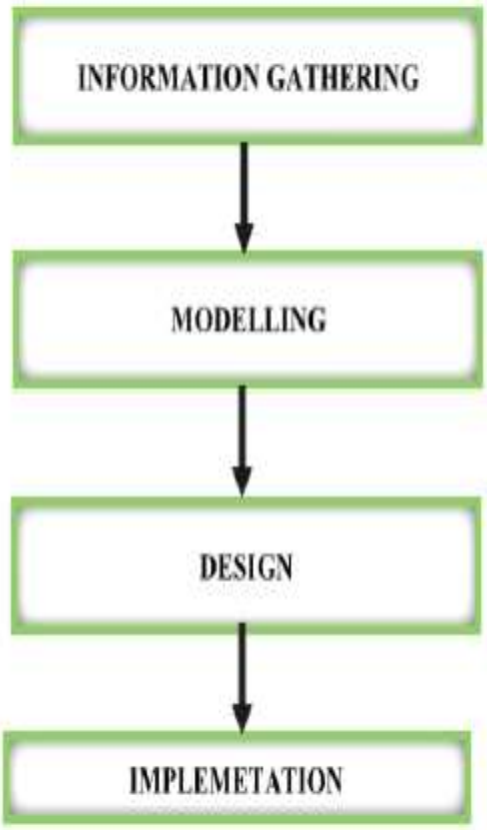

Fig-1: Research Methodology of the family doctor app.

III. MODELING AND ANALYSIS

The main focus of the modeling and analysis is to provide a detailed report on the modeling of the report .In this section we present the graphs and charts to show the analysis and the glimpse of our research work.

This contains very useful information regarding the modeling of the research. In this we have made a app named

The family doctor which is used in the medical field to provide the appointments to the patients to meet a doctor based on their need and requirements.

Use Case Diagram

The use case diagram shows the methodology of the system how it works and operates . Use case diagram also shows all the possible action which are performed by the user. Use case diagram shows the flow of action which are performed by the user on the system.

In this we have used 3 use case diagram which are as follows:-

Picture 1:- It shows the scheduling system that how a patient request for an appointment.

Picture 2:- It shows the use case of the Patient when the patient interacts with the system.

Picture 3:- This shows the use case of the diagram that how a doctor deals with the patient.

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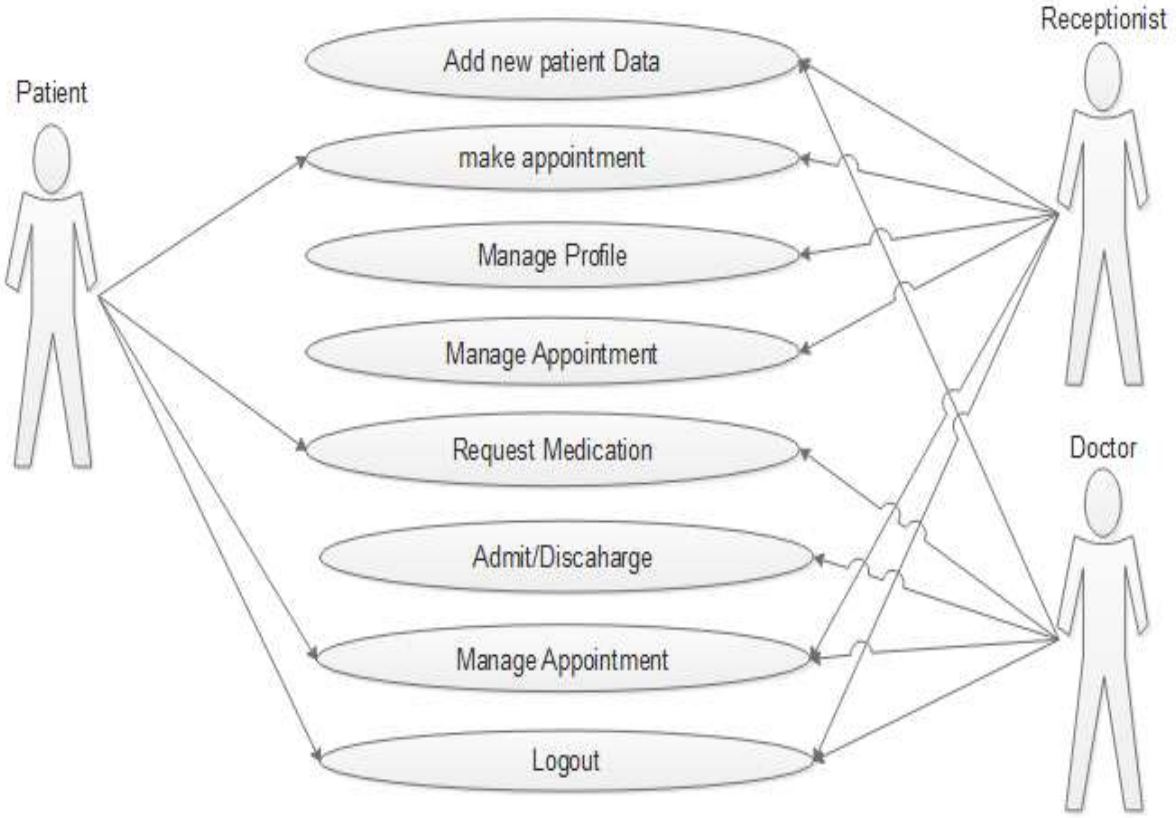

Fig-2: Patient Appointment and Scheduling System use case diagram.

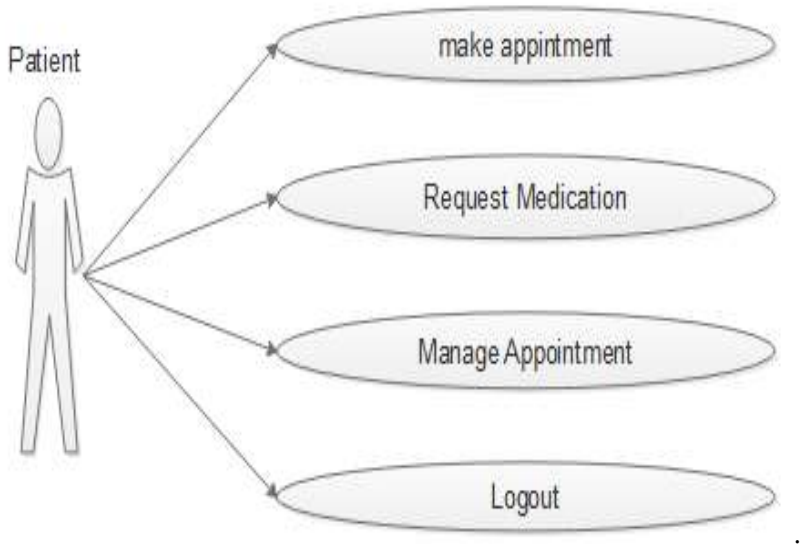

Fig-3: Patient`s use case diagram

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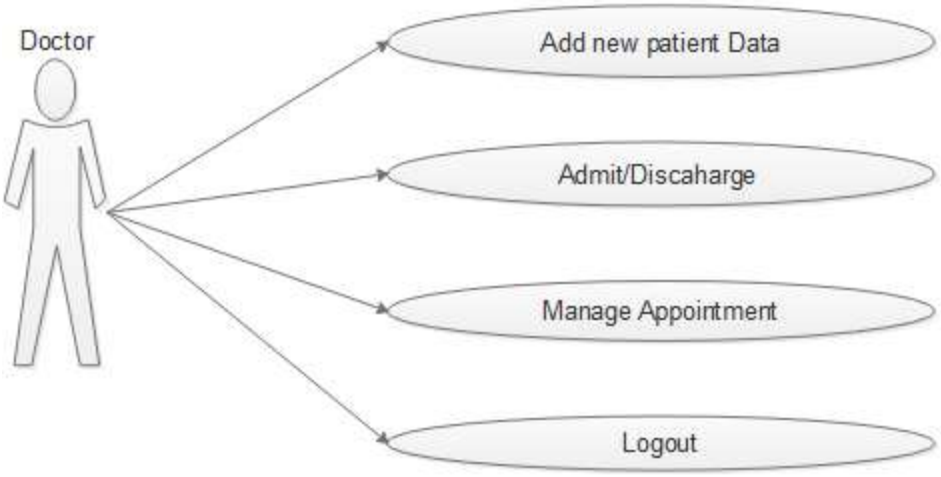

Fig-4: Doctor`s use case diagram

IV. RESULTS AND DISCUSSION

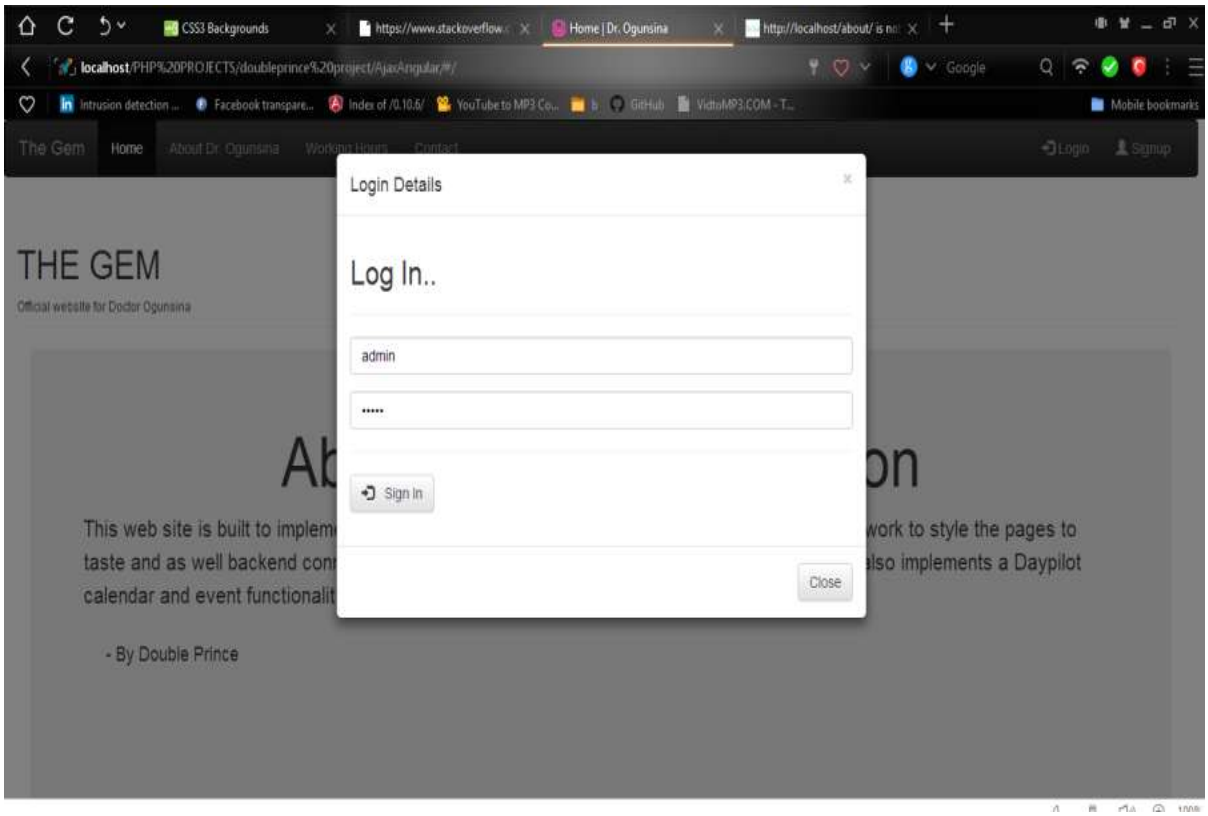

Fig-5: Login Form

This is the login form of our app which is used at the time of registration of the user, whenever a new user tries to access the services of our app.

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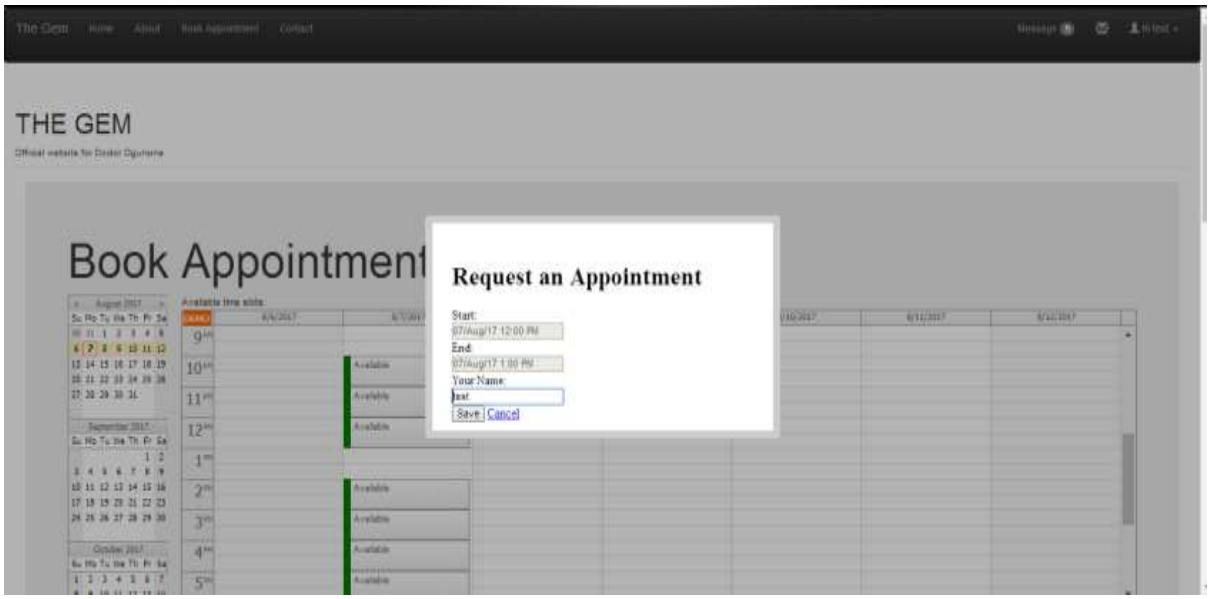

Fig-6: Book appointment page

This figure shows the appointment procedure. Whenever a new user tries to access the appointments he/she needs to go through this process.

V. CONCLUSION

At last we have tried our best to incorporate our all the research in this research and in making our app as best as possible. As this app covers all the aspect of miscommunication between the doctor and the patients. This app basically deals with the appointments which are needed for the patients and after analyzing the emergency we schedule our appointments .In this we all do take care of the patients necessity and time feasibility . It will reduce the mass gathering in the queues and reduce the waiting hours for the patients. We will give online appointments to the user and ask them to visit at that time.

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