

# Android Application for Doctors' Information

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**Abstract**— In our everyday life web assumes a noteworthy part and brings a ton of extraordinary thing. There are so many internet applications that have been developed in making our life easier. Doctors' information application system is being developed for the purpose of finding doctors in particular city with their specialization. It is an online as well as offline application for providing doctors information. The Idea of this Doctors' Information application system is to make patient easier to get valued services of doctor. It is also give the information about nearest hospital in the area to the patient. The base of this project is to give fast service to patients for taking decisions in critical time by seating at home also. The system is also providing the appointment facility with respective doctors.

**Key words:** Android Application for Doctors, Doctors Information

## I. INTRODUCTION

Some time, people unaware about the details of the doctors who are specialist in what Some time it may happen that people visiting to new city & they don't know about doctors in that city. So to help people we are thinking to develop android app. The Doctor Information app, available for Android device, this help user to find doctors in that city, and lets them book appointments instantly. With this app, users can find doctors who are specialized in dental care, skin care, mental health, critical care medicine, integrated medicine, naturopathy, speech therapy, surgical oncology. This app also helps to know about visiting doctors in respective hospitals, so we can take appointment to meet them.

Doctors can help us when they are free. If we have any query, then we can ask them online and they will give feedback online to us. If any doctor wants to use this app, then they should fill one entry form online and submit that to us. After verification of them, there profile will be added into these apathies' app lists doctors based on specialty, area and availability.

## II. NEED

People should come to know all information about doctors such as their specialization, name and address etc. Already all information about doctors is available on the Internet, but we need Internet connection to access that information every time. Through this application we are able to access information about doctors without Internet. It is also beneficial to doctors for advertise themselves.

## III. PROBLEM STATEMENT AND OBJECTIVE

### A. Problem Statement

In current system, Internet is the primary need. If we don't have internet, then we can't access information about doctors. We are try to give solution with online plus offline application. If network is not available then also users can

able to access information about doctors at particular city, which will be downloaded at the time of installation.

### B. Objective

The aim of this project is to develop an Android application for giving doctors information to the patients online as well as offline. The Doctor Information app, available for Android device, is help users to find doctors in their city, and lets them book appointments instantly. With this app, users are able to find doctors in their particular city, who are specialized in dental care, skin care, mental health, critical care medicine, integrated medicine, naturopathy, speech therapy, surgical oncology. Through this app we are able to find distance of clinic from current location. Doctors can help us when they are free. If we have any query, then we can ask them online and they are given feedback online to us.

## IV. PROPOSED WORK

Because of the disadvantages of existing system, we got motivated to develop this particular application, which are provide following facilities

- Free information available.
- Accessing of information is very fast because of offline nature.
- Reduce waiting time in queue for patients.
- Can book instant appointment.
- Able to find distance from current location

### A. Working Methodology

- Processing of already gathered information to finalize the requirements.
- Found out the actual functionalities and users of the system.
- Prepared detailed design structure like DFD's, use cases, sequence diagram and activity diagram.
- Decided the platform for implementation.

## V. SYSTEM DESIGN

Design is the meaningful Engineering representation of something that is to be built. It can be traced to the customer requirement and at the same time accessed to the quality against the set of predefined criteria for good design.

There are two measure phases to any design process: Diversification and Convergence Diversification is the acquisition of a repertoire of alternatives the raw material of design, component, component solution and knowledge of all content in the catalogs, text boxes and mind. During convergence, the designer chooses and as agreed by the customers. This section is brief overview of the methodology use for this document.

### A. Typical Architecture

The basic working of this application is as follows: Basically, application is divided into two parts i.e. Online

and Offline. When this application is installed into mobile at that time database which is present about respective doctors into that city, that all get downloaded. Internal Database contains all information about doctors which is downloaded at the time of installation. When user is offline, then all information is available into that database. When any updating is made into main database (e.g. new doctors are added) then throw online all that data get downloaded through web server.

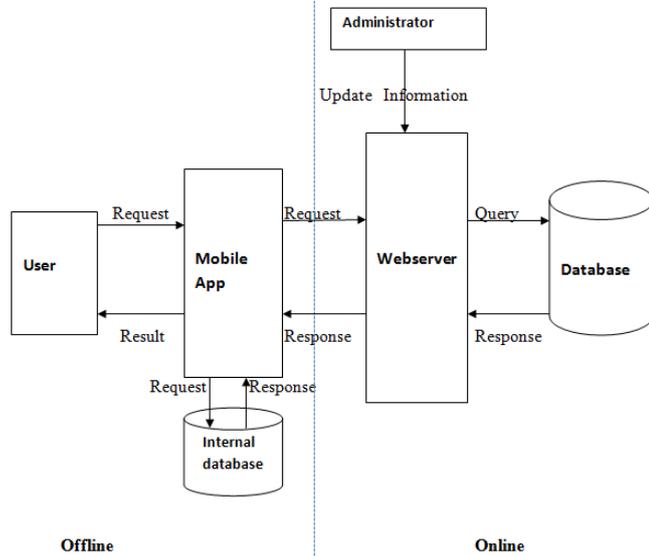


Fig. 1: Working methodology of proposed system

**B. UML Diagrams**

The unified modeling language allows the software engineer to express an analysis model using the modeling notation that is governed by a set of syntactic and pragmatic rules. UML performs structural and behavioral type of diagram. A UML system is represented using five different views that describe the system from distinctly different perspective. We have used following UML diagram:

**C. Data Flow Diagram**

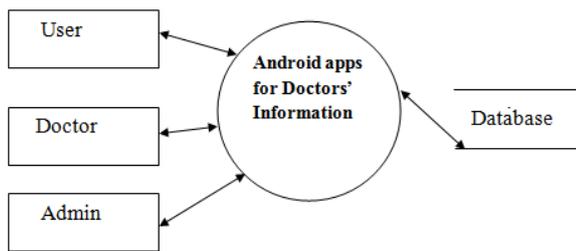


Fig. 2: Level 0 Data flow Diagram

In figure 2 Users, Doctor, Admin this are the entities. And Doctor Apps is process. In software engineering, an entity-relationship model (ER model) is a data model for describing the data or its process requirements, in an abstract way that lends itself to ultimately being implemented in a database such as a relational database. The main components of ER models are entities (things) and the relationships that can exist among them. A data flow diagram is graphical tool used to describe and analyze movement of data through a system. A DFD typically shows the minimum contents of data store. Each data store should contain all the data elements that flow in and out.

**D. Use Case Diagram**

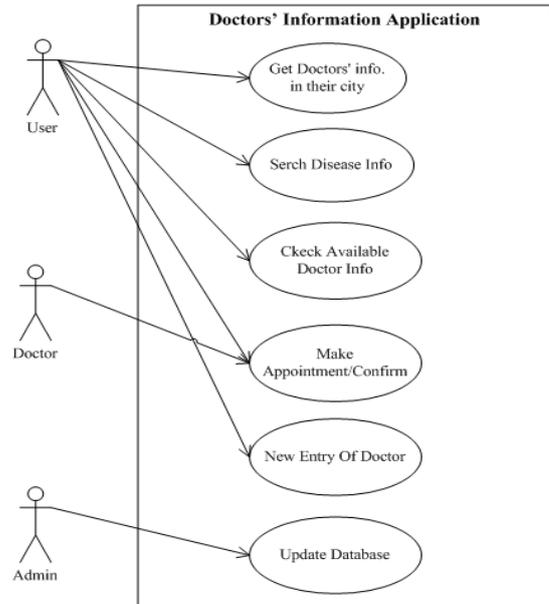


Fig. 3: Use Case Diagram.

In fig 3 shows actors & functionalities of system. User, Doctors & Admin are actors. Get Doctors' info, search Disease info, check available Doctors' info and Make appointment these functionalities are for users. Confirm appointment, watch videos are functionalities for the Doctors. And Admin Functionality will be updating the database. A use case diagram at its simplest is a representation of a user's interaction with the system and depicting the specifications of a use case.

**E. Sequence Diagram**

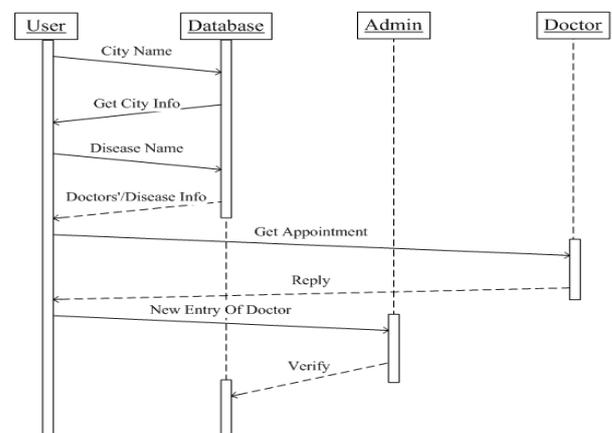


Fig. 4: Sequence diagram for user

In fig 4 Users, Database, Admin & Doctor these are the objects of system and they interact with each other by passing different messages. A sequence diagram is an interaction diagram that shows the time ordered of messages. It shows a set of object and message send and received by those object. We use sequence diagram to illustrate the dynamic view of system. A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner.

## VI. CONCLUSION

The proposed system is useful for the patient to know information about all doctors in their specific area. User able to access information without internet. This app is also help doctors to advertise themselves. Doctors can watch videos related to medical field online with provided links. This app is serving the purpose of emergency need in case of accidents, heart attacks to know the nearest hospital.

## REFERENCES

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