A

PROJECT REPORT

ON

HealDoc

Submitted by

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In fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

Computer Engineering

Shree Swaminarayan Institute of Technology

Gujarat Technological University, Ahmedabad

Shree Swaminarayan Institute of Technology

**At: Near EDI & Sardar Patel Ring Road Circle Gandhinagar to Ahmedabad
Airport Highway, Bhat, Gandhinagar, Gujarat 382428**

CERTIFICATE

This is to certify that the project reports, submitted along with the project entitled **"HealDoc"** *has been carried out by* **Kavan S Patel(141250107022)** *under my guidance in partial fulfilment for the degree of* **Bachelor of Engineering** *in* **Computer Engineering (8th Semester)** *of Gujarat Technological University, Ahmedabad during the academic year* **2017-18**. *These students have successfully completed project activity under my guidance.*

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Internal Guide	Project Coordinator	Head of Department
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This is to certify that the project reports, submitted along with the project entitled **"HealDoc"** *has been carried out by* **Tanisha V Mehta(141250107011)** *under my guidance in partial fulfilment for the degree of* **Bachelor of Engineering** *in* **Computer Engineering (8th Semester)** *of Gujarat Technological University, Ahmedabad during the academic year* **2017-18**. *These students have successfully completed project activity under my guidance.*

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This project would not have been possible without the direction, technical and personal support of a number of people. I would like to thank all of them have donated to this project directly and indirectly.

I would like to thank my college for giving me this chance to originate this project. I also like to thank all the teaching and non-teaching staff of my college for their cooperation, and also our internal guide Asst Prof. **Rajul Suthar** for their encouragement and support and for helping me on my project.

I wish to take this opportunity to express to all those, without whose help, completion of this project would have been difficult. I am glad to submit my project on **HealDoc.** The system which I have designed and created is the result of many people's dedication. I would like to thanks all faculty members of college who gave us proper guidelines and helped us a lot in completing this project successfully.

Abstract :-

- Today everything is done online and there is need for improvement in medical field.

- So we have to make application which can fulfilled the requirements of online medical services.

- This application is specifically for patients to find doctors and remedy.

- This application promote doctor to prescribe patients also this application helps medical stores to expand their business while delivering medicines to end-patients.

- Our application provides online appointment booking to end patient.

- By using our application medical students get information about different medicines.

- Our application will provide functionality to store user's entire medical data online.

- Our application provide android as well as web interface so all the user can get benefit of our application.

- User's can get the information of the doctors with user ratings and check availability.

- User can get daily tips and tricks regarding medical field.

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Chapter 1
Introduction

1.1 Introduction

- This application is specifically for patients to find doctors and remedy. This application promote doctor to prescribe patients also this application helps medical stores to expand their business while delivering medicines to end-patients.

- Main aim of our application is to serve patients with online medical facilities like online appointment, online doctor consultation, online patient track record, online doctor rating and optional feature of medicines' home delivery.

- The patients who can't travel to doctor can directly consult with them through online doctor consultation feature provided in our application.

- Patients can check the ratings of doctors and select the best doctor for themselves.

- Some patient can't invest a lot of time waiting in a long queue in doctors' clinic can use our application for online appointment so our application solve them.

- Some medical students who want to investigate the ingredients of the medicine and the proportion of the ingredient used can surf our application.

- After a patient has consulted the doctor, the doctor will send the prescription to the patient online, and the user will have to decide that he wants online medicines or offline medicines.

- These unique features of our application differs our application from other applications.

- Our aim is to serve our users with smooth and trouble free medical services, which can make India Digital as it is the moto of our Prime minister to make India "Digital India".

1.2 List of Features

- User can take online appointment so time management is done in properly and there is no rush in hospitals.

- Display daily tips and different offers available on different websites.

- Display list of doctor according to their specialities, experience , user ratings, image, and other staff.

- Display list of medicine in different department like reducine fever, treating malaria etc.

- Hospital list available with full information of hospital and user can also see ratings of hospital and also rated hospital.

- Find hospital with nearby location and for different treatment.

- There is some home made tips for illness like we can say dadi ka nuskha.

- User's sensitive information like password and other sensitive information is secure with MD5 encryption so even admin can not see the user data.

- Good and responsive user-friendly interface so any age group of person can use our application.

1.3 Proposed Existing System

EXISTING SYSTEM

- There are many existing system available which are similar to our topic but there is lake of good user interface in which every people easily use the application.
- No application have all the feature in one application.
- There are application relating to medical but there is no web version available.
- In application where doctor prescribe patient but there is lake of web version and mobile application is such annoying for doctor so website is more convenient for that purpose.

PROPOSED SYSTEM

- Our application has good user interface so every age user can use our application.
- We try to include most of feature so there is one App which do all the things.
- Our application has mobile as well as website available for doctors so it can be more convenient.
- There is list of hospital with user ratings so user can identify good hospital by rating also get all the details of hospital and take a appointment.
- Our application at a moment focus on two major things 1. Online appointment 2. Doctor prescribe patient

1.4 Scope of project (Aims & objectives should include)

- Our main aim for HealDoc application to bring medical field make online at some level so it solve different kind of problem of our society.

- The main aspect out application to take online appointment of hospital and at some time online patient consulting.

- There are many additional feature which we can implement in future like user medical record harvesting, buy online medicine, also add a feature in which you can buy medicine online from your near by store and get free home delivery on certain amount of purchase so this is beneficial for medical stores to expands their business.

- Also our application is used to pharma company to analysis which kind of medicine is on more demand so they can manufacture medicine according to that.

- Our application displays the list of near by doctors with user ratings, their speciality, their experience and some other factor so user can easily identify that which doctor is suitable to them.

- There is also Different hospital list so user can search near by hospital with location , hospital facility, user also take appointment to particular hospital, he/she can see hospital and doctor timing and also see some other user ratings about the hospital.

- In our application home page there are daily tips for user about their health and also get offers on different medicine selling website so this is beneficial for user as well as beneficial to online medical store to expand their business.

- There is also remedy section in which user can find different home made solution for some common dieses it is like dadi ma ka nuskha.

Chapter 2
Project Management

2.1 Include Project plan

Project Management is the task where we find the total size of the project and also we decide which tasks to be performed when. In the project management, planning of various tasks required to perform for the development process, is done first. For that, some analysis is done and then upper level tasks of this project are decided. Then important tasks are found from that and labeled them as milestones of this project. After that the roles of each team member are decided and then the schedule for this project with each minute level of tasks and detailed information about each task are given. First thing started with is Project Planning. In this portion some upper level of analysis was done and from that, main tasks for this project were found. Then, division of the whole project into modules was performed and then calculation of metrics related to the project planning was done. Meanwhile the decision about Software Development Life Cycle was made from the analysis.

After the upper level planning, some of the major tasks of this project were decided and named them as the Milestones of this project. Some analysis for the milestones was also done and deliverables of the project were also calculated. Roles and Responsibility for each team member and resource were decided from the total number of tasks to be performed. Then total tasks needed for each resource of the project were decided at that time.

After getting the upper level project details, the details of the entire task giving the Timeline charts and the Task Usage tables was given. In Project Scheduling, graphical view of the estimated time duration for the development of the project is shown. Activities like Risk Management were also indulged with this work. Activities like Risk Analysis, Risk Identification and Risk Planning needed to be performed for this purpose.

2.1.1 Project Development Approach and Justification

A Software process model is a simplified abstract illustration of a software process, which is presented from a particular perspective. A process model for se is designated based on the environment of the project and app.., the methods and gears to be used, and the controls and deliverables that are necessary. All software development can be branded as a problem-solving loop in which four different stages are encountered:

- Status
- Problem definition
- Technical development
- Solution integration

2.1.2 Major Task of Project

From the preliminary analysis, some of the basic and upper level tasks for the project were derived. From those tasks the estimation of the project size and the cost was done. The tasks at the upper level were given as below:

- Project Background
- Project Definition
- Analysis of Whole Project at upper level
- Designing of System
- Development of System
- Modules Integration
- System Testing
- Deployment
- Documentation

2.1.3 Roles And Responsibilities

As developers, we were involved in project development phases like, Analysis, Design, Implementation, Integration and Testing. There are in total four members who contributed their efforts:

- Prof. Rajul Suthar– Project Guide
- Mr. Pallav Mamtora – Project Guide at Organization
- Kavan Patel– Project Developer
- Yashvi Shah- Project Developer
- Tanisha Mehta- Project Developer

Project head gave the project definition to the developer and continuously monitored and reviewed the work done by him. He was mainly responsible to allot the tasks to the developer and resolve some critical issues at a higher level. He monitored all the tasks and had the authority to accept or reject the project or part of it.

Project guide at the organization is the person who was with the developers to help them in his work whenever the developer raised some queries. He helped the developers to get familiar with working environment and gave them guidance to do the work at entry level. He helped the developers to solve the problems and facilitate for any necessary resources that were required. He helped the developers in the testing and deployment phases to complete the tasks smoothly. Project Guide at institute level continuously assessed the developer. Project guide is having ample amount of knowledge in the field of the project. College had appointed as guide by looking the project category and the level of difficulty of the project. He was making the checks of the developer from the college side. Also if the developer required the help from the guide he would help him in the best way he can offer. He also helped the developer in the task of representing the project at the university level and help in the documentation process also.

Developer is the person who was doing tasks to develop the project. From the preliminary analysis to the completion of the project, he was required to do the tasks. Although guides were there to help in the development process, developer had to do all the tasks.

2.2 Project Scheduling

Project scheduling is the process of creating a network of the software engineering tasks that will enable the job done on time.

- After creating network, one has to assign responsibility.
- Project scheduling starts after
- Selecting appropriate process model.
- Identified the software engineering tasks.
- Estimating the amount of work and number of peoples.
- Deciding the deadline.
- Considering risk

2.2.1 Scheduling

Now we have selected software process model to follow, identified all software engineering tasks to perform, got the deadline, amount of work and number of people and consideration of risk, its time to make network of the entire software engineering task keeping in mind all other tasks. All tasks are distributed along with people to do and efforts to reach the deadline.

Scheduling can be done by two ways either end date of delivery is already decided and then efforts are distributed accordingly or rough end date is decided to work on.

2.2.2 Importance

The interdependencies in multipart systems are very hard to grip and understand which becomes calm with proper planning of project. It is unbearable to track multipart software project without scheduling.

2.3 Milestone & deliverables

"Steps of Software Development with Planning this is called Milestone.."

A milestone is a significant occasion in the course of a project that is used to give perceptibility of progress in terms of achievement of predefined milestone goals. Failure to meet a milestone specifies that a project is not happening to plan and usually triggers corrective action by management.

Setting Milestones

Milestones have no duration, they represent instantaneous events that occur throughout the project. Typical project events that are marked with milestones are:

- The conclusion of a project phase
- The support of a deliverable
- The conclusion of a scheduled review
- The conclusion of an activity
- The origination of an activity.

And Last Image of this drawing include phases of projects like first one is understanding the problems, then data gathering, then database creation, designing,etc.....Milestone: Milestone is an end-point of the software procedure activity.

- At each milestone there must be formal output, such as report, that can be signified to the management.
- Milestone report need not be large document; they are the short report of achievements on software project activity.
- Milestone signifies the end of the different, rational stage in the project.

  Deliverable: It is a project report that is delivered to the customer.

- Deliverables are delivered to the customers at the end of some major project phase such as specification, design, etc.
- Deliverables are usually milestones.

Chapter 3
System Requirement & Specification

3.1 User characteristics

- User name
- Date of birth
- Gender
- Password
- Blood group
- Email
- Phone number
- Address/Locality

3.2 System Characteristics

- Run on android platform

- Require internet

- User can able to register and login on our application

- Display data of medicine list

- Display data of hospital list

- Automated appointment booking

- Doctor patient consulting via chat

- Display daily tips and tricks

- Remedy list like dadi ma aka nuskha

3.3 Product Perspective

3.3.1 H/w Requirement

- Leptop/PC
- Android Device
- USB cable
- Hosting Server

3.3.2 S/w Requirement

- Android studio
- MySQL
- NetBeans
- Eclipse
- Web-Service
- PHP
- Photoshop
- Visio
- Android Platform
- JAVA Environment
- Operating System

3.3.3 Memory Constraints

- Our application need 4 GB free internal storage and 1GB ram in device to lag free smooth experience.

3.4 Constraints

- Our application has only android version so for apple user and any other OS user does not use our application.

- There is internet require for data loading.

- The web version of our application is only for doctors so it does not use by normal user.

- At a moment our system does not have authentication via OTP(One Time Password) so it will implemented in future.

- At initial level our system does not have sufficient number of data of hospital medicine and other.

- A mobile phone which have ram less then 1mb in that case our system does not work smoothly.

- These are the constrains which we try to solve in future update.

3.5 System Reliability

- Our application is work flawlessly in almost any android phone.

- For web service we provide good server and because of that the data on application load faster.

- The security credential like user password etc are encrypted with MD5 security model so even admin can't see the password which user enter.

- Our application provide user friendly user interface which is easily used by every age people.

- We give most accurate information from which people get benefit of our information.

- For user ratings only login user can rate the hospitals so it is more accurate thing.

- For doctor convenient we make web interface so the doctor patient chat became more easily.

- These points makes our system reliable.

3.6 Safety and Security of system

- For our system safety and security we are encrypt some sensitive information like user password and other staff with MD5 encryption.

- We also encrypt and does not save user and doctor chat in this we constrain the user's privacy.

- User details are not show to hospitals and doctors if user does not want so it is save user privacy.

- For doctor authentication we take addhar number and give login after authenticating doctor.

- We will include user authentication via email verification.

Chapter 4
System Design

4.1 System Analysis

- First we analyse some other medical application and observing the layout and user interface.

- After analysing we realize that some application has not user friendly UI.

- So we design a good user interface which is very simple and easy to use.

- We also analyse features of other application and after that we conclude to make one application which satisfy all the requirements and have all the features in one application.

- Before starting working on our application we analysis what we need and we conclude that we need Android platform in which we can make and test our application as well as java interface.

- We need mysql database for our android web-service, hosting server for host our website so we can access application from any time any where, some hardware in which with using we develop our application.

- We also analyse that for doctor and hospital login we need to make a website so hospitals and doctors easily use our application because android application is not suitable for them.

- We also analysis on user data security and secure user data like password with MD5 security.

4.2 System Activity

4.2.1 E-R Diagram

- Used to Relationship pair can represented by graphically.

- Used in Database application but most commonly used in Data Design.
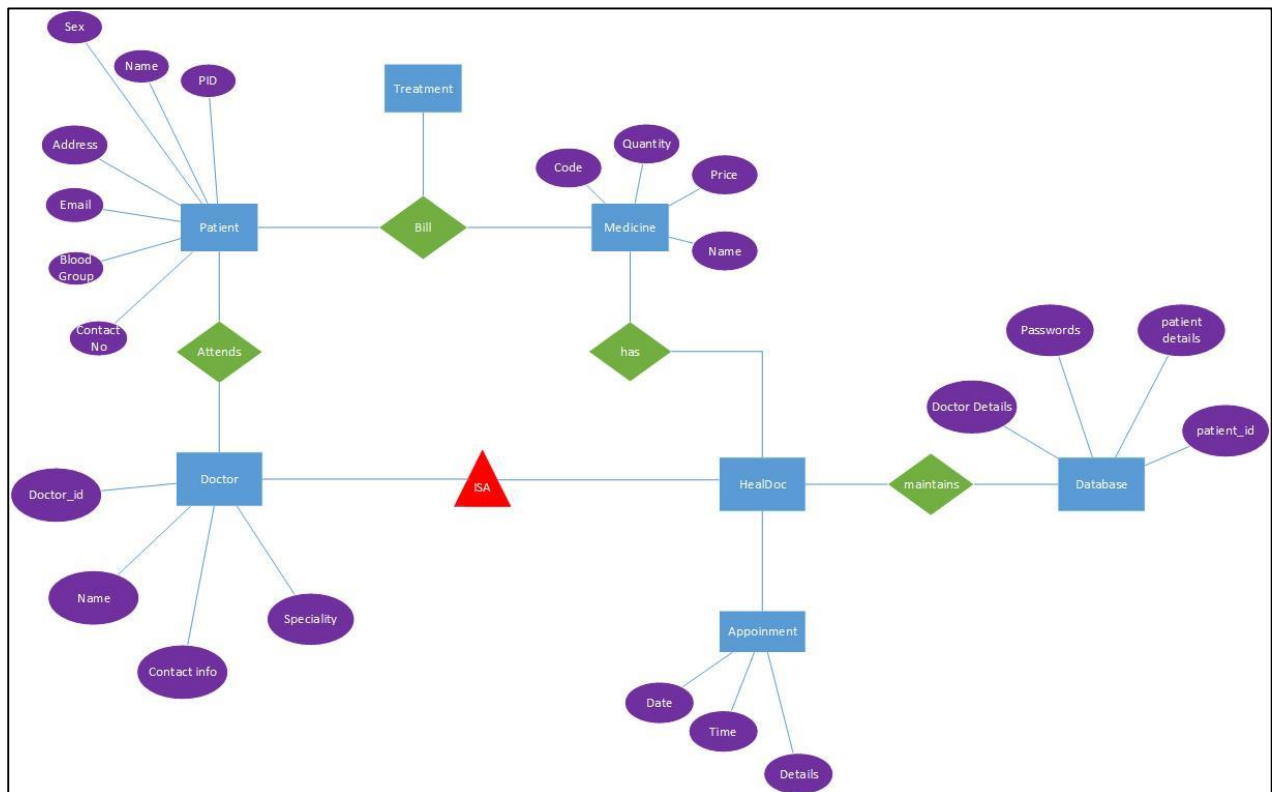
Fig 4.2.1 E-R Diagram

4.2.2 Use Case Diagram

Use Case Diagram

A use case diagram is "a diagram that shows the relations among actors and use cases within a scheme." Use case diagrams are often used to:

- Provide an impression of all or part of the practice necessities for a system or group in the method of an essential model or a business model
- Interconnect the scope of a development project
- Model your analysis of your usage supplies in the form of a system use case model

A use case model is involved of one or more use case diagrams, supporting documentation such a use case specifications & actor meanings. Inside most use case models use case provisos tend to be primary artefact with the use case diagrams filling supporting role as the glue that keeps your requirement model organized. Use case models should developed from the point of view of your project stockholders and not from the point of view of developer. There are guideline for:

- Use Case.
- Actor.
- Relationship.
- System Boundary Boxes.

1. Use Cases

A use case defines order of actions which provide a assessable value to an actors Use Case Names Begin With Strong Verb.

2. Actor

An actor is a individual, organizations, or outside system that play a role in one or more communications with your system ("actors are typically stick figures on UML Use Case diagrams").

3. Relationship

There are several type of relations that appear on a use case diagram:

- A simplification between two actor
- An meaning between an actor and a use case
- An relationship between two use case
- A simplification between two use case

Association are showed as line joining two showing element with an optional "open-headed" point on one end of line indicating direction of the initial invocation of a relationship. Simplifications are depicted as "close-headed" arrow with the arrow pointing to more general modelling element.

4. System Boundary Boxes

The rectangle around use case is called as the system border box and as the name proposes it indicate a choice of your system – Use cases inside the rectangle represent the functionality that you intended to implement.

Indicates Release Scope with System Border Box. You see that three systems border boxes are included, each of that has a label representative that release the various use cases has been allocated to. Meaning less boundary
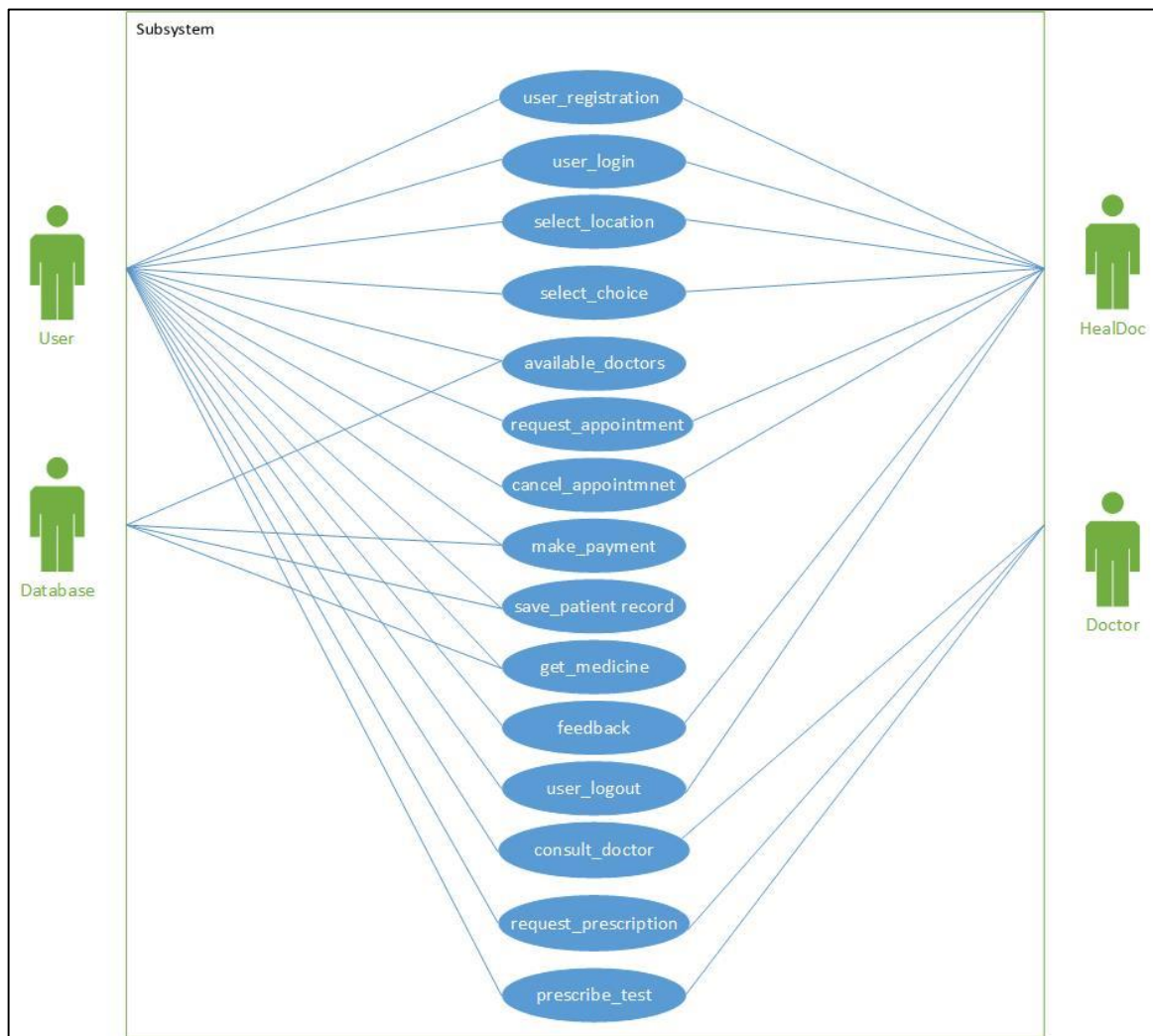
Fig 4.2.2 Use Case Diagram

4.2.3 Data-flow Diagram

DFD-Diagram

- Used to model the information and function domain.
- Grater level helps the analyst to perform functional decomposition.

Context Level DFD:-
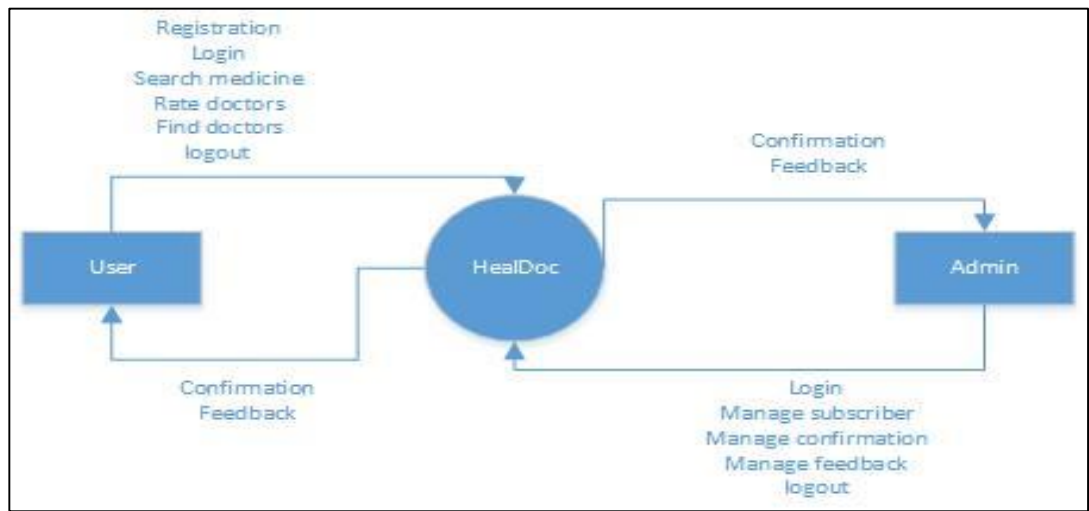
Fig 4.2.3.1 Level 0 DFD

Level 1 DFD:-
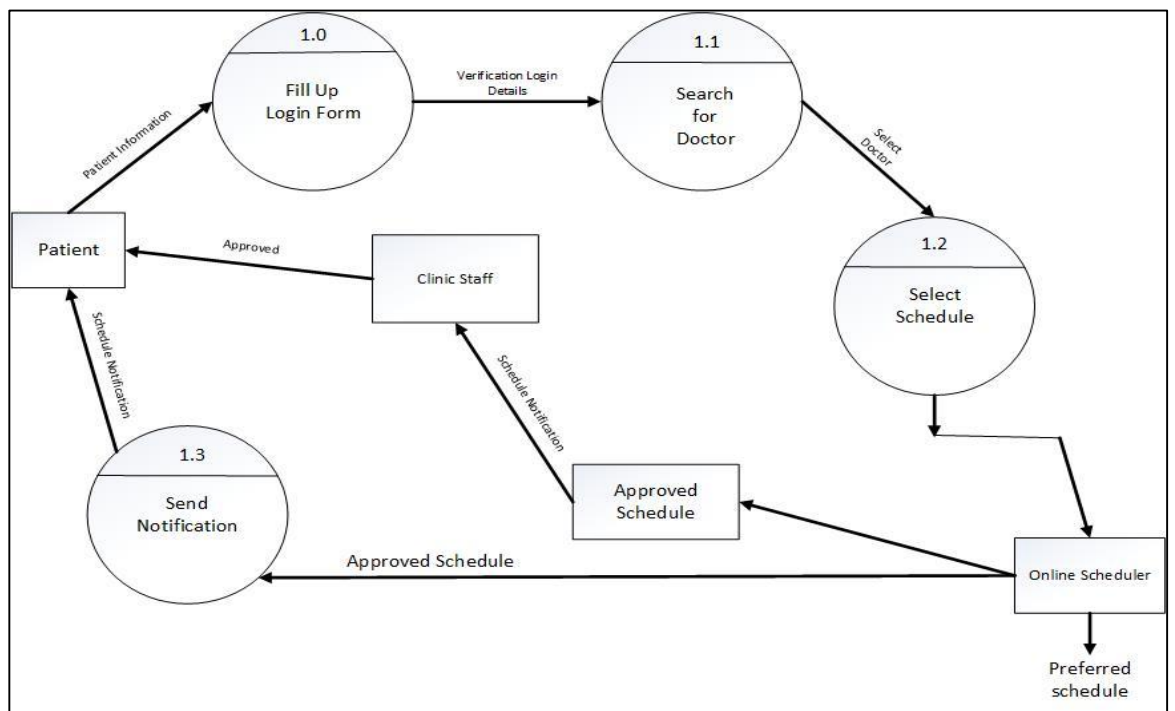
Fig 4.2.3.2 Level 1 DFD

4.2.4 Sequence Diagram

UML sequence diagram model flow of logic inside individual system in a visual manner, enabling individual both to documents and validate individuals logic, and There are frequently used for both analysis and design purposes. Sequence diagram is most popular UML object for active modelling, which focuses on identifying behaviour of individuals system. Other dynamic modelling techniques includes "activity diagramming", "communications diagramming", "timing diagramming", "interaction impression diagramming". Sequence diagram, with class diagram and physical data model are in my opinion the most significant design level model for a current business and application development.

Sequence diagram are typically used to models:

- **Usage scenario**:- A usage situation is description of potentially way of your system is used. The logic of the usage scenario may be part of the use case, although an alternative sequence. It may be one of entire pass through use cases, such as logic describe by the basic course of action or portions of the basic course of action, plus one or more alternative scenario. The logic of usage scenarios may be a passes through the logics contained in a several use case. For a example, a student enrol in the university, and then instantly enrol in three meeting.
- **The logic of method:-** Sequence diagram can be used to the discover the logic of a complex operations, purposes, or a procedures. One way to think about sequence diagram, primarily highly detailed diagrams, is as visual object of code.
- **The logics of services**:- A service is a efficiently a high-level method, often one of that can be invoked by extensive selection of client.

Sequence-User
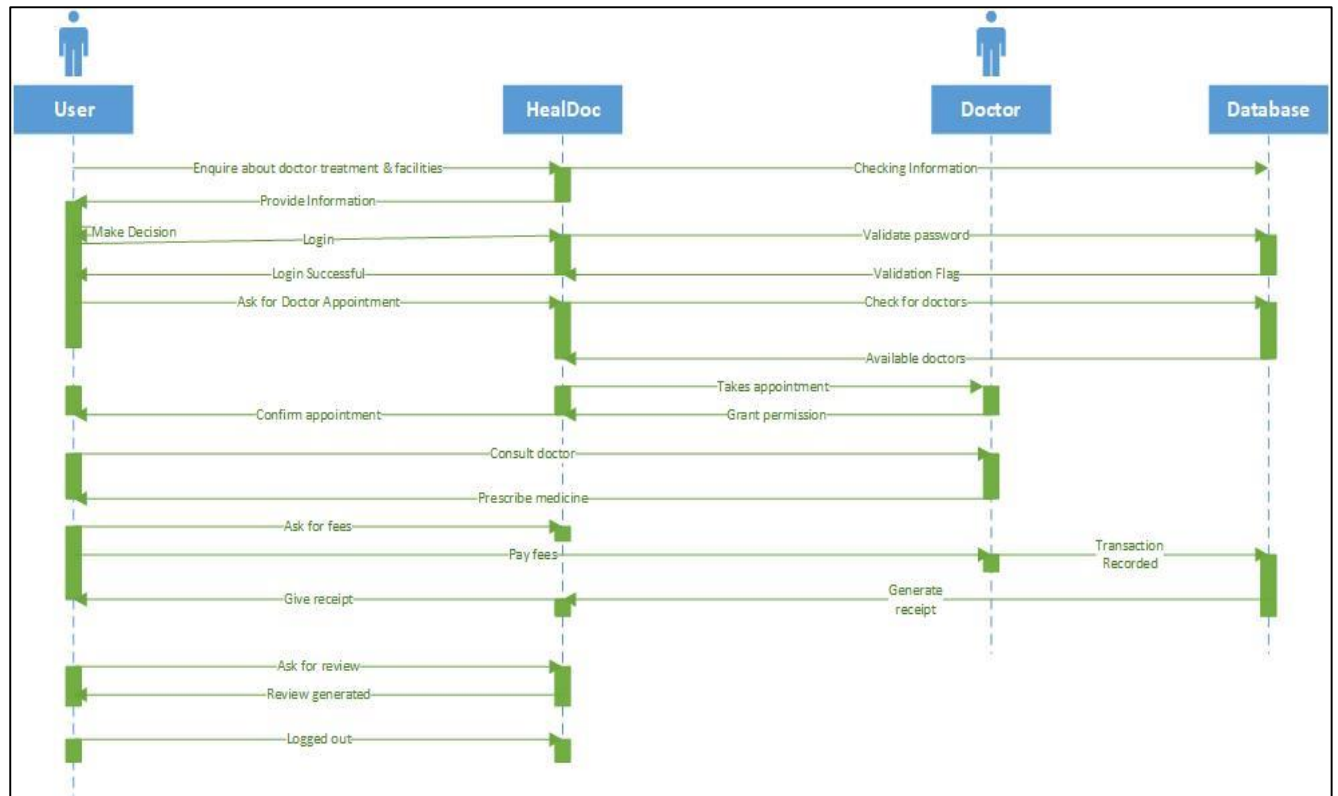
Fig 4.2.4 Sequence Diagram for user

4.2.5 Activity Diagram

Activity diagram is graphical demonstration of the work flow of stepwise activities, actions with a support for optimal, iteration and concurrency. In the Unified Modelling Languages, activity diagrams can be used for describe business and operational step-by-step work currents of components in the system. An activity diagrams are displays the overall flow of control.

Activity Diagram for Subscriber
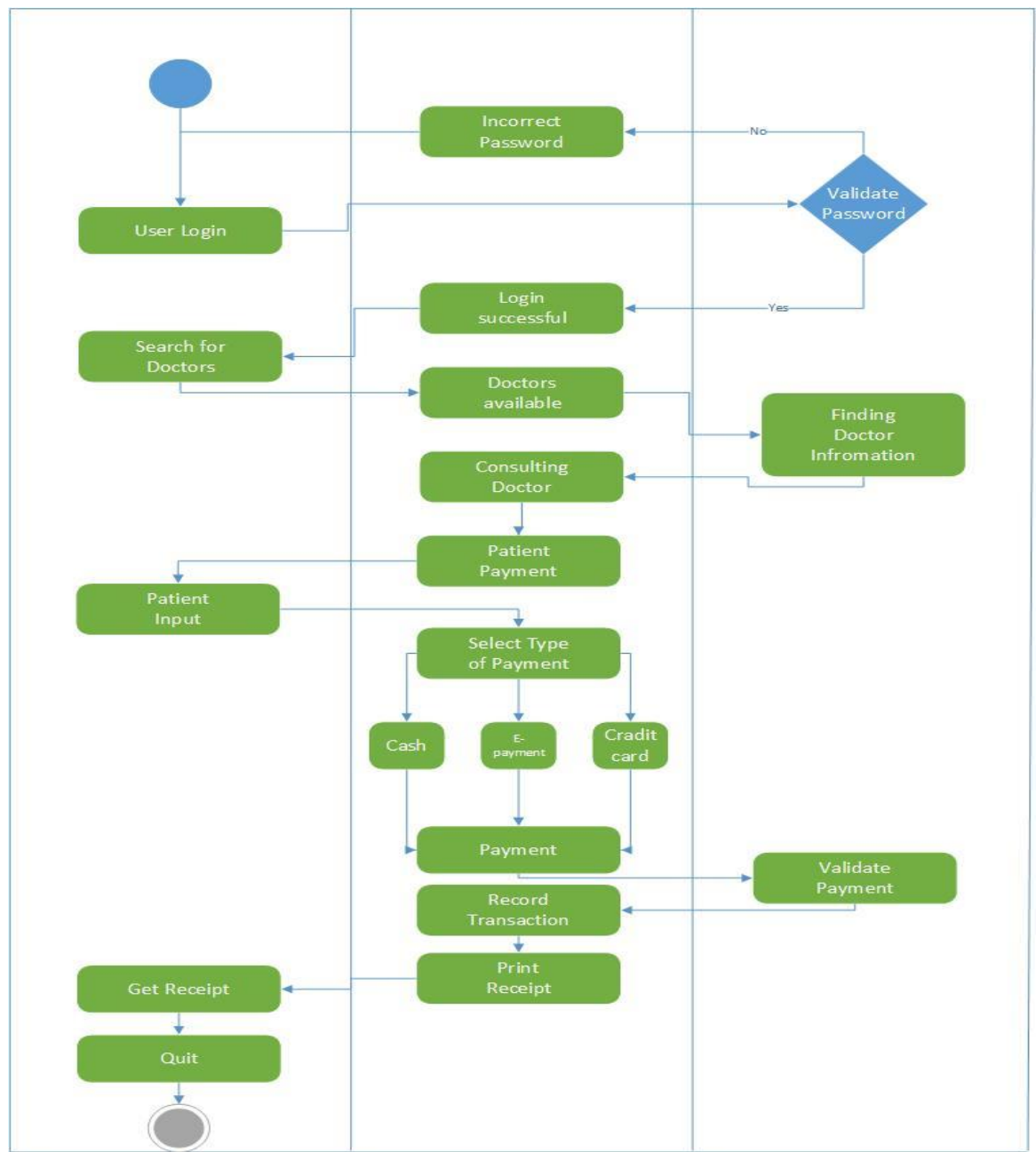
Fig 4.2.5 Activity Diagram For Subscriber

4.2.6 Class Diagram

Class Diagram

- Used to imprisonment a Static view of system.
- Represent how to put numerous objects together.
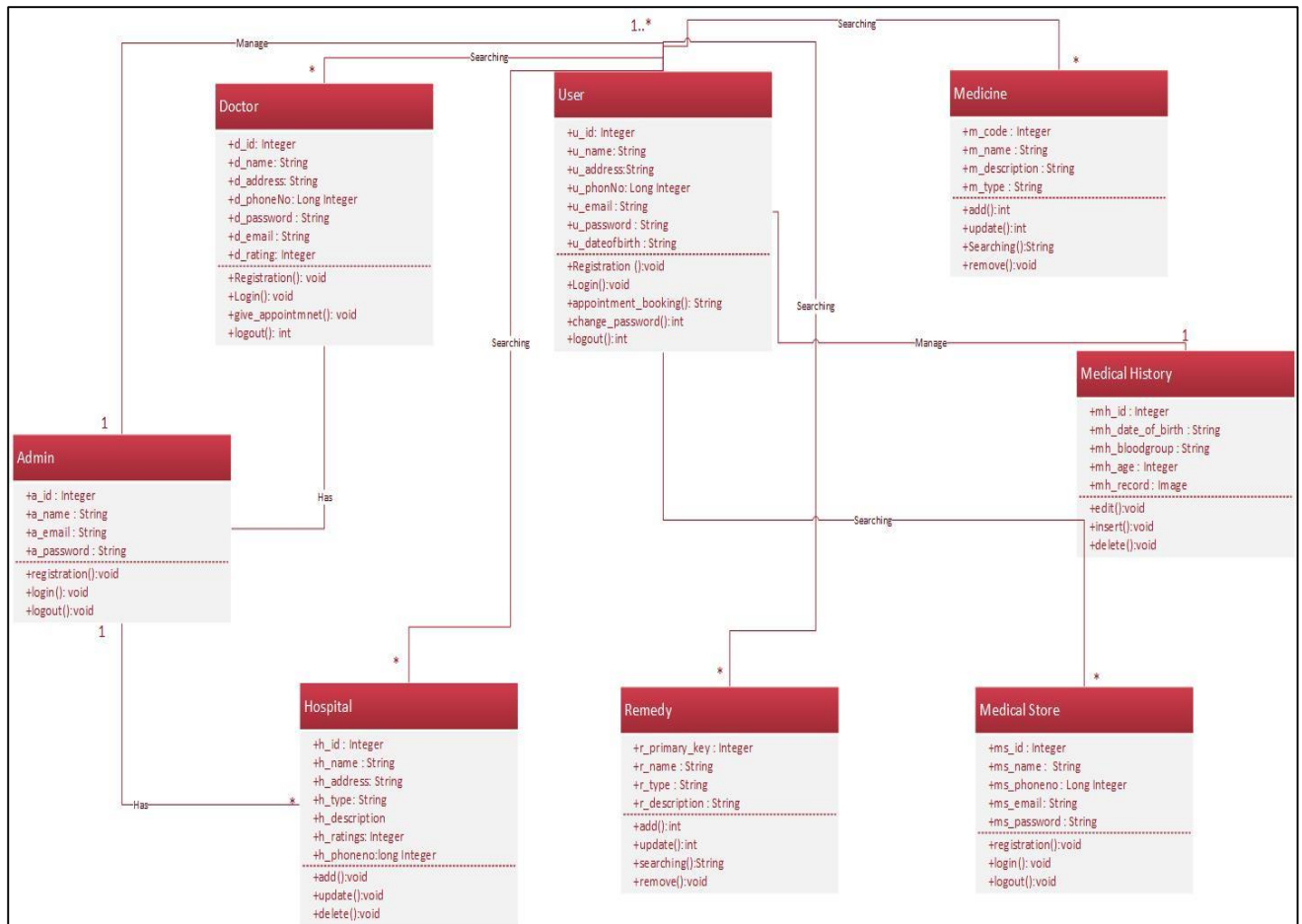
Fig 4.2.6 Class Diagram

4.3 Data Dictionary

A Data Dictionary is CatLog-Responsibility of a Element in the System. As a Name Suggest, These Element are Organized around Data in a Way to Meet the Use and the Organization Requirement. A DD(Data Dictionary) is List of Element that composes all the Data Flow Processes through the System. It also Stores Detail and Description of Data Flow, Data Store.

If Analyst Wants to Know by What Other Means is Table or Data Item Referenced in a System or where it is Being to Used the Answer are Properly Developed in the DD. The Dictionary Id Developed During Data Flow Analysis Assist the Analyst involved in Requirements.

A Data-dictionary, or metadata repository, as defined in IBM Dictionary of Computing, is a "centralized repository of the information about a data such as a meaning, relationships to other data, origin, usage, and a format." The term can have one many closely related meaning relating to databases and DBMS.

A data dictionary define a structure of the DB itself (note that of a data held in the DB) and used in control and maintenance of larger database. Among other item of information, it can records 1] what data is stored, 2] name, description, and characteristics of each data component, 3] types of relationship between the data elements, 4] access rights and occurrence of access.

DB users and a application developer can benefits from an authoritative data dictionary documents that catalogues to the organization, contents, and convention of one or more DB. This is typically include the name and description of various tables [records or Entities] and their content [field] plus additional details, like type and length of the each data elements. Another important portion of the information that is a data dictionary can provide is the association between Tables. This is sometime referred to in ER-diagrams, or if using Set descriptors, identifying which Sets of database Tables which participate in.

Features of Data Dictionary:

A "data dictionary" describe the structure and attribute of the data 'item' to be used in a software application [a database]. Software development team needs a comprehensive data dictionary to referred to during the development and maintenance of the new databases. They are all working using a same data format when reading and writing data.

A data dictionary includes the names and descriptions of the tables and the fields contained in each table. It also documents information about a data types, field length and other things such as a validations. The main purpose of a data dictionary is to provides metadata, or a information about data.

The Volume of the Data in Most Information System is Considerable More than a Single Analyst may Easily Keeps Track of the same. When Teams of Analyst Works on the Assistance Task of Coordinating Data Definitions Becomes much Complex. Individual Depend on that Information provided by other with their Hypothesis and a Requirement made by them.

Function of a Data Dictionary

- Describes the data element.
- Helps in scheduling.
- Helps in a control.
- Permit the various users who knows which data is available.
- Help in a proof of identity of the organizational data anomaly.
- Act as very essential DM-tool.
- Provides a good standardizations mechanism.

Table Name : signup_user

Table Description : This table is use for user registration as well as user login.

Table 1.1 Signup_user						
Field name	**Data Type**	**Field Size**	**Data Format e**	**Desciption**	**Example**	**Notes**
Id	Int	10		It isPrimary key	1,2,3..	AUTO_INCREMENT
first name	Varchar	40		Not null	Abc	
last name	Varchar	40		Null able	Xyz	
phoneno	int	13		Not null	+919999999999	UNIQ
email	Varchar	40		Not null	xyz@gmail.com	UNIQ
Gender	Varchar	10		Not null	male, female	
dob	date		YYYY-MM-DD	Not null	1997-03-07	
password	Varchar	60		Not null	Ksfjs453lsf	Secure With MD5 encryption
confirmpassword	Varchar	60		Not null	Ksfjs453lsf	Secure with MD5 encryption

Table Name : signup_admin

Table Description : here admin registration data.

Table 1.2 Signup_admin						
Field name	**Data Type**	**Field Size**	**Data Format e**	**Desciption**	**Example**	**Notes**
a_id	Int	10		It isPrimary key	1,2,3..	AUTO_INCREMENT
a_firstname	Varchar	40		Not null	Abc	
a_lastname	Varchar	40		Null able	Xyz	
a_phoneno	int	13		Not null	+919999999999	UNIQ
a_email	Varchar	40		Not null	xyz@gmail.com	UNIQ
a_gender	Varchar	10		Not null	male, female	
a_dob	date		YYYY-MM-DD	Not null	1997-03-07	
a_password	Varchar	60		Not null	Ksfjs453lsf	Secure With MD5 encryption
a_confirmpassword	Varchar	60		Not null	Ksfjs453lsf	Secure with MD5 encryption

Table Name : signup_doctor

Table Description : This table is use for doctor registration and login.

Table 1.3 Signup_doctor						
Field name	**Data Type**	**Field Size**	**Data Format e**	**Desciption**	**Example**	**Notes**
Id	Int	10		It isPrimary key	1,2,3..	AUTO_INCREMENT
first name	Varchar	40		Not null	Abc	
last name	Varchar	40		Null able	Xyz	
phoneno	int	13		Not null	+919999999999	UNIQ
email	Varchar	40		Not null	xyz@gmail.com	UNIQ
Gender	Varchar	10		Not null	male, female	
dob	date		YYYY-MM-DD	Not null	1997-03-07	
addhar_number	Varchar	100		Not null	123456789123	Secure With MD5 encryption
verification_status	boolean		True,false	Not null	True , False	Doctor cannot login until verification is not done.
chat	Boolean		True, flase	Not null	True, false	Doctor give permitting for online consultant or not
password	Varchar	60		Not null	Ksfjs453lsf	Secure With MD5 encryption
confirmpassword	Varchar	60		Not null	Ksfjs453lsf	Secure with MD5 encryption

Table Name : daily_tips

Table description : This table is mainly use for day to day tips which is show in application and this send in json formate to the application.

Table 1.4 daily_tips						
Field name	**Data Type**	**Field Size**	**Data Format**	**Description**	**Example**	**Notes**
tips_id	Int	6		it is primary key	1,2,3…	AUTO_INCREMENT
tips_image	Varchar	100	Link	It is image link	http://healdoc.000webhostapp.com/images/download.jpg	
tips_text	Varchar	1000	String	It is text format tips	Water is good for our body. Etc..	

Table Name : offers_homepage

Table Description : This table is use for display discount on medicine from different website.

Table 1.5 offers_homepage						
Field name	**Data Type**	**Field Size**	**Data Format**	**Description**	**Example**	**Notes**
offer_id	Int	6		It is primary key	1,2,3…	AUTO_INCREMENT
offer_image	Varchar	100	link	It is image link	http://healdoc.000webhostapp.com/images/download.jpg	
offer_text	Varchar	1000	String	It is text formate discount text	Netmeds, 1mg	Website name
offer_link	Varchar	100	Link	It is link of website	www.netmeds.com	Website link

Table Name : hospital_list_main

Table Description : This list is display in recycler view

<table>
<tr><td colspan="6">Table 1.6 hospital_list_main</td></tr>
<tr><th>Field name</th><th>Data Type</th><th>Field Size</th><th>Description</th><th>Example</th><th>Notes</th></tr>
<tr><td>h_id</td><td>Int</td><td>6</td><td>It is primary key</td><td>1,2,3..</td><td>AUTO_INCREMENT</td></tr>
<tr><td>h_name</td><td>Varchar</td><td>30</td><td>Not null</td><td>Xy hospital</td><td></td></tr>
<tr><td>h_pohneno</td><td>Varchar</td><td>13</td><td>Not null</td><td>+919999999999</td><td>UNIQ</td></tr>
<tr><td>h_rating</td><td>Float</td><td>2</td><td>Null able</td><td>3.5,4.5,..</td><td></td></tr>
<tr><td>h_facilities</td><td>Varchar</td><td>100</td><td>Null able</td><td>24hr Open, Operation Theatre , etc..</td><td></td></tr>
<tr><td>h_location</td><td>Varchar</td><td>30</td><td>Not null</td><td>Ahmedabad, Surat, etc.</td><td></td></tr>
</table>

Table Name : hospital_list_full

Table Description : here user can find full details of hospital , from here user also can take online appointment.

<table>
<tr><td colspan="6">Table 1.7 hospital_list_full</td></tr>
<tr><th>Field name</th><th>Data Type</th><th>Field Size</th><th>Description</th><th>Example</th><th>Notes</th></tr>
<tr><td>hf_id</td><td>Int</td><td>6</td><td>Not null</td><td>1,2,3..</td><td>AUTO_INCREMENT</td></tr>
<tr><td>hf_image</td><td>Varchar</td><td>100</td><td>Null Able</td><td>http://healdoc.000webhostapp.com/images/download.jpg</td><td></td></tr>
<tr><td>hf_phoneno</td><td>Varchar</td><td>13</td><td>Not null</td><td>+919999999999</td><td>UNIQ</td></tr>
<tr><td>hf_ratings</td><td>Float</td><td>2</td><td>Null able</td><td>2.4</td><td></td></tr>
<tr><td>hf_facilities</td><td>Varchar</td><td>1000</td><td>Null able</td><td>Special ward, pharmacy, ambulance.</td><td></td></tr>
<tr><td>hf_address</td><td>Varchar</td><td>100</td><td>Not null</td><td>Address in String</td><td></td></tr>
<tr><td>hf_takeappointment</td><td>boolean</td><td></td><td>Not null</td><td>True, false</td><td></td></tr>
</table>

Table Name : remedy_tips

Table Description : here this table can provide images and home made tips for different common dieses

Table 1.8 remedy_list					
Field name	**Data Type**	**Field Size**	**Description**	**Example**	**Notes**
r_id	Int	6	Not null	1,2,3…	AUTO_INCR EMENT
r_image	Varchar	100	Not null	Image URL	
r_text	Varchar	1000	Not null	Tips	

Table Name : medicine_list

Table Description : here different medicine list

Table 1.9 medicine_list					
Field name	**Data Type**	**Field Size**	**Description**	**Example**	**Notes**
m_id	Int	6	Not null	1,2,3..	AUTO_INCR EMENT
m_name	Varchar	30	Not null	Rantac_D	
m_use	Varchar	30	Not null	Reducing fever	
m_image	Varchar	100	Null able	http://healdoc.000webh ostapp.com/images/dow nload.jpg	
m_productn o	Varchar	100	Not null		
m_descripti on	Varchar	1000	Not null		

Table Name : doctor_list

Table Description : list of doctors.

Table 1.10 doctor_list					
Field name	**Data Type**	**Field Size**	**Description**	**Example**	**Notes**
d_id	Int	6	Not null	1,2,3..	AUTO_INCREMENT
d_name	Varchar	50	Not null		
d_image	Varchar	100	Null able	Image link	
d_type	Varchar	20	Not null	Surgeon, heart specialist	
d_experience	Int	2	Not null	22	
d_profile	Varchar	100	Not null		
d_hospital	Varchar	100	Not null		
d_chat	Boolean		Not null	True, false	

Chapter 5
Form Layout

5.1 Snap your Design
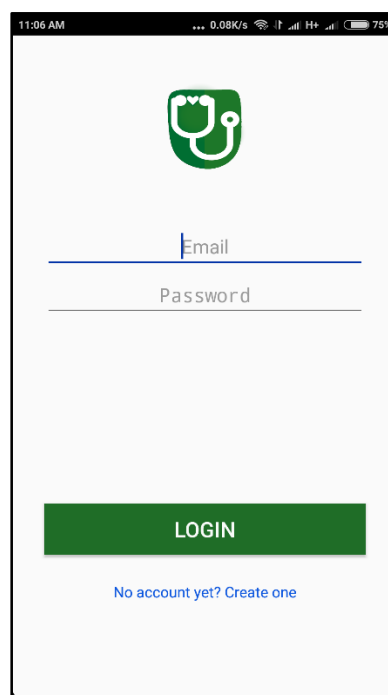

Fig. 5.1 splash screen
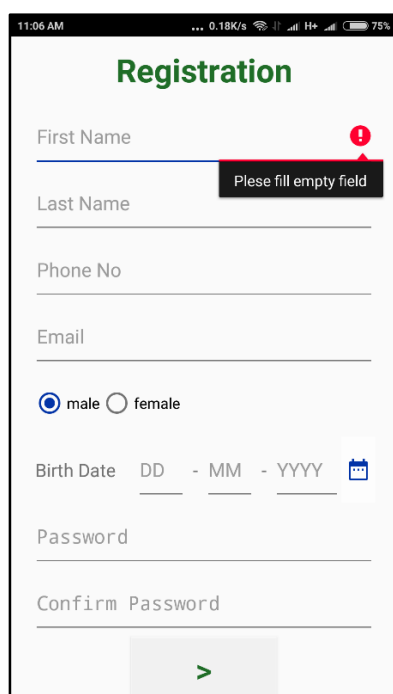

Fig. 5.2 login screen

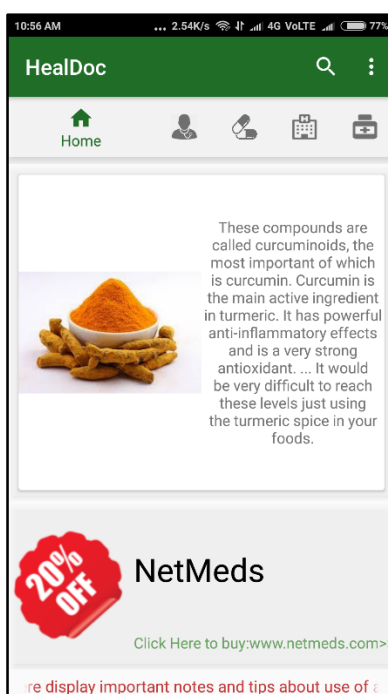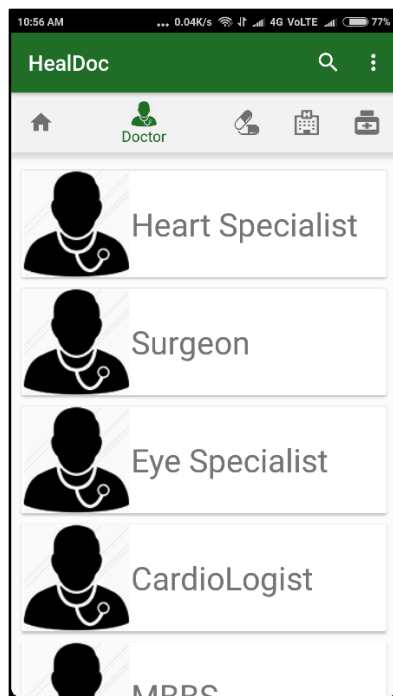Fig. 5.3 Registration page

Fig. 5.4 Home page

Fig. 5.5 Doctor list
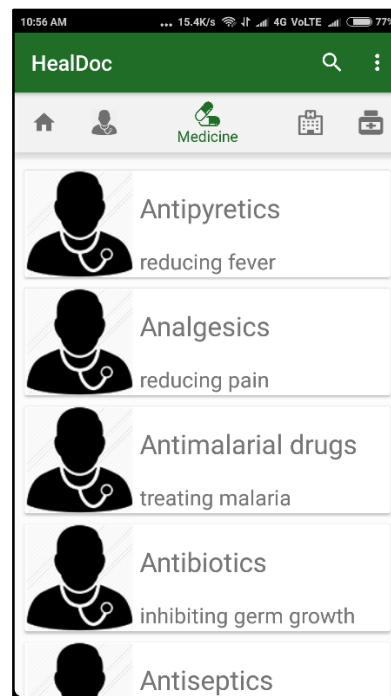
Fig. 5.6 Medicine list
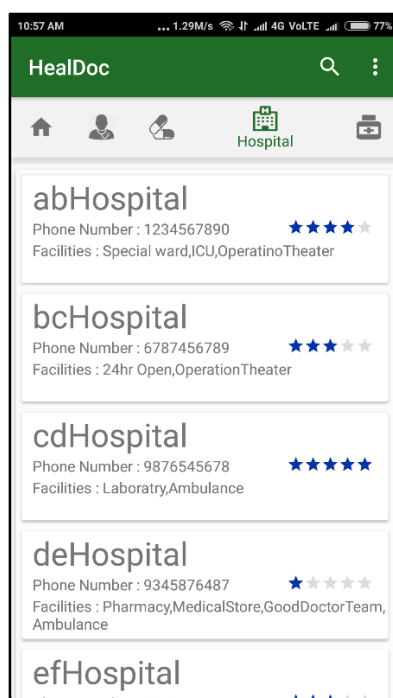
Fig. 5.7 Hospital list

Chapter 6
System Testing

6.1 Test Cases

A test case is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly.

The process of developing test cases can also help find problems in the requirements or design of an application.

Project Name: HealDoc	
Test Case	
Test Case ID: HD_001	**Test Designed by:** <HD_dev>
Test Priority (Low/Medium/High): Medium	**Test Designed date:** <10 april 2018>
Module Name: healdoc login and registration screen	**Test Executed by:** <HD_dev>
Test Title: Test the login and registration functionality in healdoc	**Test Execution date:** <20 april 2018>
Description:	

Verify login with valid user name and password and also see the with invalid user name and password how application responce
Pre-conditions: user has valid username and password

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to Registration page		User should able to Registration	User should able to Registration	Pass	
2	Provide details of registration	Provide name,email,dob, password etc.	Information can be entered	As expected	Pass	Validation done
3	Click on register button		User Registered and navigate to login screen	As expected	Pass	
4	Provide user name on login screen	Provide username: xyz	Information can be entered	As excepted	Pass	
5	Provide password on login screen	Provide password: root	Information can be entered	As expected	Pass	
6	Click on login button		Able to login and navigate to home page	As expected	Pass	Validation done

Post-conditions: User successful register their detail on database and with using that details he/she can login to application successfully.

6.2 Test Plan

Test planning is very important, essential, and crucial part of the test life cycle. Well planned and executed test ensures good quality software. In simple words, Test Planning is planning everything involved in testing and Test Plan is a document where test planning is written.

Planning is very important and essential survival skill and is integral part of our life. Plans are made in everyday life knowingly or unknowingly. Say for example, "cooking dinner". To cook dinner, following factors will be considered – available ingredients, what and how to cook, number of people, infrastructure required for cooking, skills required to execute the recipe, when to cook, time required to complete the cooking and when to stop cooking and serve the food.

Test Planning Steps:-
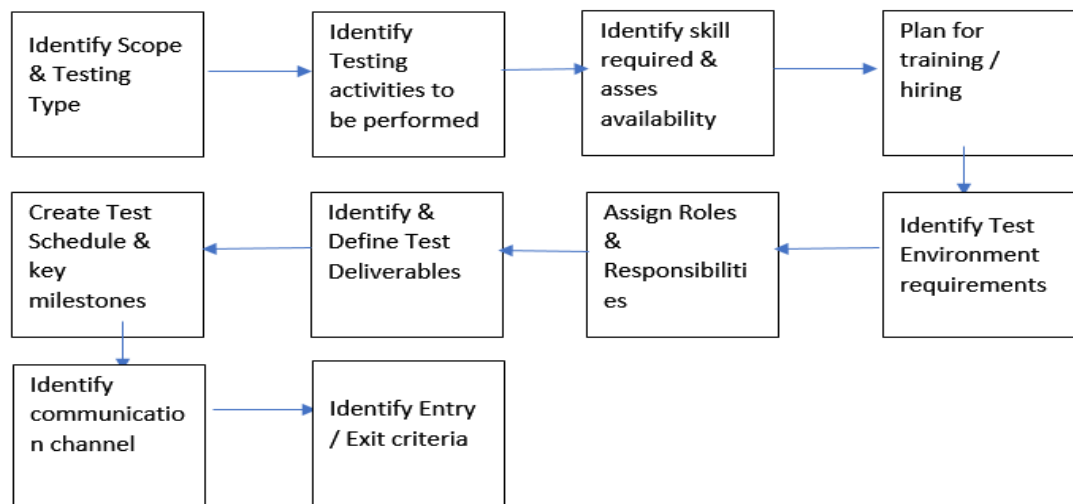
These parameter are consider for test planning

- Software to test
- How to test conduct
- Skills require to execute the test
- When to stop testing and release the software
- When to test
- Total efforts required to complete the test

Chapter 7
Conclusion & future plan

Conclusion

- we are trying to include all the feature but there is some feature which we can implement in future.
- Our application work flawlessly and smoothly.
- Almost all the android phone support our application we do not found any phone in which it is not support.
- We trying to make update of our application from getting feedback for peoples.
- We will include more hospital and doctor list as they are register on our application.
- There is need to done promotion of our application in order to first impression.

Future Work

- In future we have to made update regularly in our application.
- We will improve user interface.
- If it is possible and after getting feedback from users we may be include video calling facilities based on feedback.
- As we know Artificial Intelligence get popular day by day so we have to plan integrating in our application so we try to make a expert system in which there is database of some well known expert doctor so our application can suggest medicine of some common dieses.
- We also think to include a storage of medical report in which user can upload medical report so they do not worry to lost their medical reports.

Chapter 8
Reference

Reference

- www.google.com

- www.youtube.com

- https://en.wikipedia.org

- https://developer.android.com/training/basics/firstapp/creating-project.html

- Android application development (Black Book) by Pradeep kothari

- Beginning android programming with android studio by J.F.DiMarzio

Appendix

Sr.no	Title
1	**Periodic Progress Report 1**
2	**Periodic Progress Report 2**
3	**Periodic Progress Report 3**
4	**Periodic Progress Report 4**
5	**Patent Drafting Exercise Form 1**
6	**Patent Drafting Exercise Form 2**
7	**Patent Drafting Exercise Form 3**
8	**HealDoc Plagiarism Report**
9	**PMMS Completion Certificate**
10	**BMC Canvas**

First PPR

College	:	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR			
StudentName	:	Patel Kavan Shaileshkumar			
EnrollmentNo	:	141250107022	Department	:	Computer Engineering
MobileNo	:	9726292816	Discipline	:	BE
Email	:	kavanpatel5@gmail.com	Semester	:	Semester 8

PPR Details

Periodic Progess Report : First PPR

Project : Healdoc

Status : Reviewed

1. What Progress you have made in the Project ?

First we improved UI and made UI more user friendly. After that we started to learn web-service and jsp for web login. We also think about how we integrate web as well as mobile application.

2. What challenge you have faced ?

We have to learn java and web-service for make back-end of our project. While making our project we face some major errors and to solve that errors we referred quora , stack-overflow etc website.

3. What support you need ?

We are not properly familiar with web-service so we need a help of our external guide to be familiar with web-service.

4. Which literature you have referred ?

we referred some online content like javaTpoint , stack overflow , quora and many other website. we also referred Black-book.

Second PPR

College	:	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR			
StudentName	:	Patel Kavan Shaileshkumar			
EnrollmentNo	:	141250107022	Department	:	Computer Engineering
MobileNo	:	9726292816	Discipline	:	BE
Email	:	kavanpatel5@gmail.com	Semester	:	Semester 8

PPR Details

Periodic Progess Report : Second PPR

Project : Healdoc

Status : Reviewed

1. What Progress you have made in the Project ?

We are parse and implement web-service in some sample project and also start implementation web service in our application. Solve some bug from the application like after scrolling previously checked data not remain checked. Also we started work on website for admin login.

2. What challenge you have faced ?

We have to learn some new things for better UI design. Also solve error in which some cases our application is crashed. After step by step update we test our application in different devices.

3. What support you need ?

We need support of google for solving some kind of error which we cannot identify. Also need a support of external guide.

4. Which literature you have referred ?

We referred some online content like javaTpoint , stack overflow , quora and many other website. We also referred Black-book.

Third PPR

College	:	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR		
StudentName	:	Patel Kavan Shaileshkumar		
EnrollmentNo	:	141250107022	Department :	Computer Engineering
MobileNo	:	9726292816	Discipline :	BE
Email	:	kavanpatel5@gmail.com	Semester :	Semester 8

PPR Details

Periodic Progess Report : Third PPR

Project : Healdoc

Status : Reviewed

1. What Progress you have made in the Project ?

We are started to learn how to make own web-service for making our own web service for our application. We improve User-Interface. We include search bar on the top of our application so user can easily search medicine, hospital etc stuff.

2. What challenge you have faced ?

We encounter some errors while updating our application so it will be challenge for solve some type of errors. In some case data from web-service does not getting properly so our application crash so we have to solve that error.

3. What support you need ?

We need support of google and external guide for learning to make our own web service. Needs a support of external guide.

4. Which literature you have referred ?

We referred some online content like javaTpoint , stack overflow , quora and many other website. We also referred Black-book.

Fourth PPR

College	:	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR		
StudentName	:	Patel Kavan Shaileshkumar		
EnrollmentNo	:	141250107022	Department :	Computer Engineering
MobileNo	:	9726292816	Discipline :	BE
Email	:	kavanpatel5@gmail.com	Semester :	Semester 8

PPR Details

Periodic Progess Report : Forth PPR

Project : Healdoc

Status : Reviewed

1. What Progress you have made in the Project ?

With using our sample database we make our web service and put in to server for our application. We also continue work on website for admins login.

2. What challenge you have faced ?

We have to manage same database for our android application as well as website. We encounter different errors in website as well as mobile application and we have to solve them.

3. What support you need ?

We need a web server for our website as well as web service. We need support of external guide and google search service.

4. Which literature you have referred ?

We referred some online content like javaTpoint , stack overflow , quora and many other website. We also referred Black-book.

PDE 1

College	:	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR
Department	:	Computer Engineering
Discipline	:	BE
Semester	:	Semester 8
Project Name	:	Healdoc
Team ID	:	23750

Form 1 – APPLICATION FOR GRANT OF PATENT

Applicants :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Shah Yashvi Jignesh	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9409227278	yashvishah.ssit.ce2014@gmail.c
2	Patel Kavan Shaileshkumar	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9726292816	kavanpatel5@gmail.com
3	Mehta Tanisha Vijaykumar	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9662738478	tanishamehta78@gmail.com

Inventors :

Sr. No	Name	Nationality	Address	Mobile No.	Email Id
1	Shah Yashvi Jignesh	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9409227278	yashvishah.ssit.ce2014@gmail.com
2	Patel Kavan Shaileshkumar	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9726292816	kavanpatel5@gmail.com
3	Mehta Tanisha Vijaykumar	Indian	Computer Engineering , SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY, BHAT, GANDHINAGAR , Gujarat Technologycal University.	9662738478	tanishamehta78@gmail.com

I/We, the applicant(s) hereby declare(s) that:

Following are the attachments with the applications :

PDE 2

Form 2 - PROVISIONAL/COMPLETE SPECIFICATION

1 . Title of the project/invention :

Healdoc

2. Preamble to the description :

Provisional

3. Description

a) Field of Project / Invention / Application :

It is a medical application,Online medicine and other medical area related.

b) Prior Art / Background of the Project / Invention :

This project aims to bring the current level of technology to the medical world and aims to take all the process digital and done some level of automation.

c) Summary of the Project / Invention :

Main aim of our application is to serve patients with online medical facilities like online appointment, online doctor consultation, online doctor finding by ratings and optional feature of medicines' home delivery.

medical students who want to investigate the ingredients of the medicine and the proportion of the ingredient used can surf our application.

d) Objects of Project / Invention :

The main feature of our application is to online appointment and doctor-patient consulting threw chat.

Also There is hospital list with user ratings which helps to user to get idea of hospitals.

e) Drawings :

f) Description of Project / Invention : (full detail of project) :

User can take online appointment so time management is done in properly and there is no rush in hospitals.

Display daily tips and different offers available on different websites.

Display list of doctor according to their specialities, experience , user ratings, image, and other staff.

Display list of medicine in different department like reducine fever, treating malaria etc.

Hospital list available with full information of hospital and user can also see ratings of hospital and also rated hospital.

There is some home made tips for illness like we can say dadi ka nuskha.

g) Examples :

h) Claims (Not required for Provisional Application) / Unique Features of Project

Our application have very user friendly user interface in which any age of people can use our application.

main feature is online appointment booking,and patient consulting,Display list of medicine, hospitals filter by nearby,ratings etc.

4. Claims

5. Date and signature

6. Abstract of the project / invention :

This application is specifically for patients to find doctors and remedy. This application promote doctor to prescribe patients also this application helps medical stores to expand their business while delivering medicines to end-patients.

PDE 3

Form 3 – STATEMENT AND UNDERTAKING UNDER SECTION 8

Name of the applicant(s) :   I/We, Shah Yashvi Jignesh ,Patel Kavan Shaileshkumar ,Mehta Tanisha Vijaykumar

Name,Address and Nationality of the joint applicant :

Hereby declare :

(i) that I/We have not made any application for the same/substantially the same victim invention outside India.

(ii) that the rights in the application(s) has/have been assigned to

Name of the Country	Date of Application	Application Number	Status of the Application	Date of Publication	Date of Grant
N/A	N/A	N/A	N/A	N/A	N/A

(iii)That I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within three months from the date of filing of such application.

Dated this 8 day of May 2018

To be signed by the applicant or his authorised registered patent agent :   Signature.................

Name of the Natural Person who has signed :   Shah Yashvi Jignesh ,Patel Kavan Shaileshkumar ,Mehta Tanisha Vijaykumar

To,
The Controller of Patents,
The Patent Office,
At Mumbai

BMC Canvas

Thank You

CE Shree Swaminarayan Institute Of Technology