

Medical Search Engine

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Medical Search Engine

Mini Project - II

Submitted in fulfillment of the requirements

For the degree of

Bachelor of Technology in Computer Engineering/Information Technology

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CERTIFICATE

This is to certify that the project entitled Medical Search Engine submitted by Sanjay R. Chandekar (14BIT009), towards the partial fulfillment of the requirements for the degree of Bachelor of Technology in Information Technology of Nirma University is the record of work carried out by him under my supervision and guidance. In my opinion, the submitted work has reached a level required for being accepted for examination.

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ACKNOWLEDGEMENT

I have worked hard for the completion of the Project throughout the semester, but it may not be possible without the kind suggestion and help of many individual around me. So, I'd like to extend my sincere thanks to all of them who helped me for the completion of this project.

I am extremely grateful to my guides for this project Prof. Tejas Vasavada and Prof. Kinjal Chaudhari for the guidance and suggestion and constant supervision on my project work and also for providing necessary Data about the project topic and for supporting me to complete the Project.

I would like to thank Prof. Kruti Lavingia, who have done all the arrangements regarding this course, starting from allocation of project topics and Guides to every students to providing all the necessary Data regarding Project reviews, presentation, marks bifurcation methodology, report format and many more.

I would also like to thank Prof. Ajay Patel, who was in the panel along with my guide for review-2, for reviewing my presentation skills and knowledge about the topic.

I would like to show appreciation to the institute for including this course in the curriculum.

My thanks and appreciations also go to my friends and people who have enthusiastically helped me out with their skills for the completion of the Project and last but not the least I place a deep sense of gratitude to my family members for their constant support and inspiration.

ABSTRACT

In this project I am working on an android application which is a search engine, precisely medical search engine. The name of this app is "BeMediSure – A Medical Search Engine". In the later part of this report I have included basic Information about the app, system requirements to run the app, features provided by this app etc.

A search engine is a search tool which supposed to output required results when a query is applied to it. So, In this medical search engine, user can get information about doctors, medicines, diseases and other medical details.

Basically Medical search engine is an app which is supposed to provide interface between patient and doctor.

This application is a simple mobile application which enables user to get information about symptoms of a disease, medicine recommended for curing the disease and list of medical shops where user can get the medicines.

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1.1 Overview

BeMediSure – A Medical Search Engine is an android app which is supposed to provide interface between patient and doctor. Like any other search engine, medical search engine should also provide results based on the queries asked about doctors, Medicines and Diseases. It also enables user to find the doctors on the Google map. User can also save their medical details by logging in to their account.

1.2 Scope of Work

The tools and libraries used in this app,

Tools used for creation and testing of the app:

- Android Studio 1.5.1
- Wamp
- Android Phone

Libraries and Methods Used of Android Studio:

- SplashScreen Method for loading Panel
- Drawer Layout, Navigation View for navigation
- Fragments and Headers for the same
- MapActivity for trace location
- JSON Array concepts for Connecting android and database
- Databases in Wamp server

1.3 Objective of Work

The main features of the app

- User can search symptoms for any disease by simply entering the name of disease.
- User can also search for the medicines for a particular disease.
- User can get the location of medical stores from which he/she can buy medicine.

- ➔ User can also find the substitute medicines and price comparison between substitutes. User can get the location of nearby doctors on Google map.
- ➔ User can get the knowledge of first aid in critical situation.
- ➔ User can save their medical information by registering for app.
- ➔ User can save their search history for future use.
- ➔ User can select symptoms from which user is suffering by ticking the check-boxes of symptoms and can get disease name as an o/p.
- ➔ At start-up of the app, user will find medical tip of the day.

2.1 Tools and Libraries

Android Studio

Android studio is an IDE for the creation of android application It provides variety of resources for the required features in android app. The resources I used in the apps are following,

→ **SplashScreen :**

SplashScreen is the screen which is used to display logo of the app initially. The concept of this activity is to delay some time and in that display the logo and loading panel.

→ **Drawer Layout:**

As name suggests, the drawer layout acts like drawer containing multiple fragments in it. It allow user to navigate on required page without blocking the space of window, It is hidden on the screen and on click it display options to navigate through different windows.

→ **Navigation Viewer:**

Navigation Viewer is mainly associated with drawer layout. On clicking an option from drawer layout, it navigate to that fragment.

→ **Fragments:**

Fragments acts like different screens, but it has the functionalities which differentiate it from multiple windows. It has all the code in one java file only, and it can navigate to different tabs which is in the original screen.

→ **MapActivity:**

Map activity enables user to find a location on Google map. Android studio also provide to create map activity in android and enable user to plot a location on map or locate a particular location.

→ **JSON Array:**

JSON stands for Javascript Object Notation. It used to fetch queries from databases and transfer the results to android that can be used in the app.

WAMP

WAMP stands for Windows, Apache, MySQL and Php. It provide a local host server to host your website locally in your network. We can create required databases and can use it in android app with the use of required code. We can pass required queries to get results from the databases, which is the most essential part of any search engine.

Chapter:. 3 *App Description with Screenshots*

3.1 *App Description*

This chapter includes the screenshots of the app and the brief description about that page as well as information about which tool or library used in that screen.

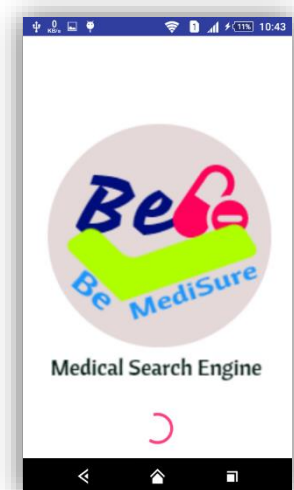
First Activity

Type: Splash Screen

Method: SplashScreen Method & LoadingPanel

Tasks:

- ➔ It is just for displaying purpose.
- ➔ Every time when the app will start, it will show The app name and logo for few seconds.



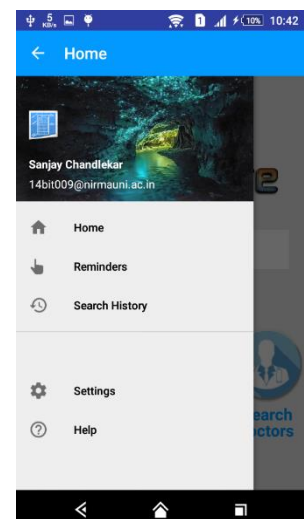
Home Page

Type: Home Page of the App

Method: Drawer Layout, Navigation View, Fragments and header

Tasks:

- ➔ This screen provides navigation to additional features of this App like Reminders, Search History, help and Settings.



- ➔ This is the screen where user can create account from header or simply navigate to home screen which is default page of the App.

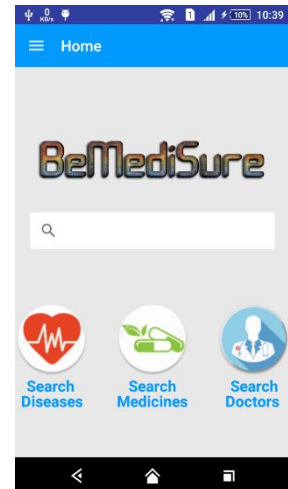
Home

Type: Search Page

Method: Searchbox, Buttons & ImageView

Tasks:

- ➔ It is the main page of app, from where user can search anything by typing the words in search box.
- ➔ From this screen user can redirect to Search Diseases, Search Medicines and Search Doctors window by clicking the icon buttons.

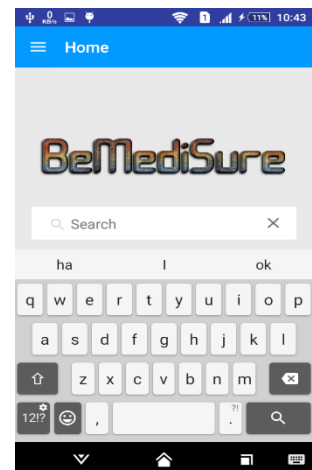


Home

Type: Searching View

Tasks:

- ➔ Takes any information from user as an Input.



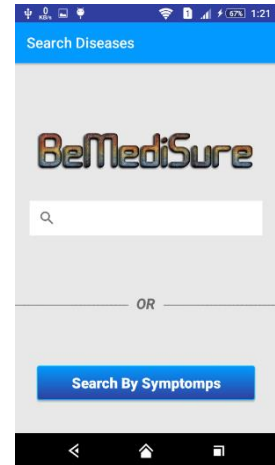
Search Diseases

Type: Search Diseases

Method: Searchbox, Buttons

Tasks:

- It is the page from where user can specifically search for only diseases.
- Two options provided for this,
 - Either by typing the name of diseases
 - Or by checking the symptoms.



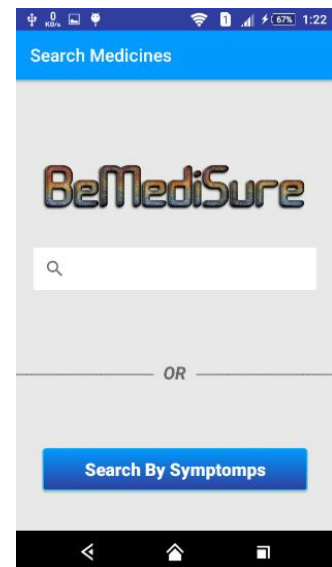
Search Medicines

Type: Search Medicines

Method: Searchbox, Buttons

Tasks:

- It is the page from where user can specifically search for only Medicines.
- Two options provided for this,
 - Either by typing the name of Medicines
 - Or by checking the symptoms and getting the medicine name from those symptoms.



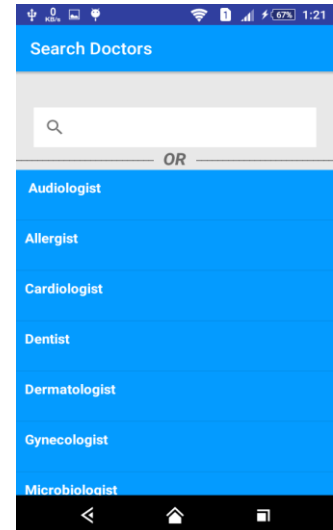
Search Doctors

Type: Search Doctors

Method: Searchbox, Buttons

Tasks:

- ➔ It is the page from where user can specifically search for only Doctors.
- ➔ Two options provided for this,
 - Either by typing the name of Doctor
 - Or by selecting a specialist doctor from the specializations provided below.



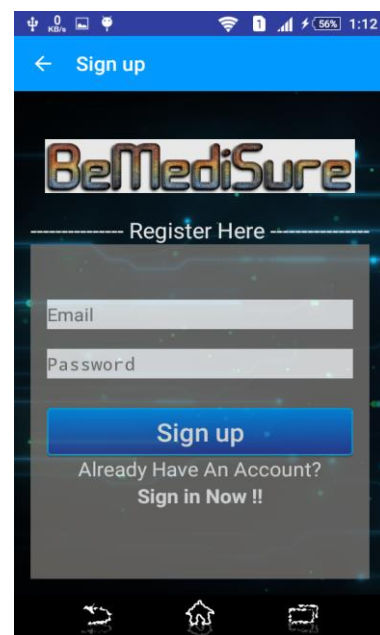
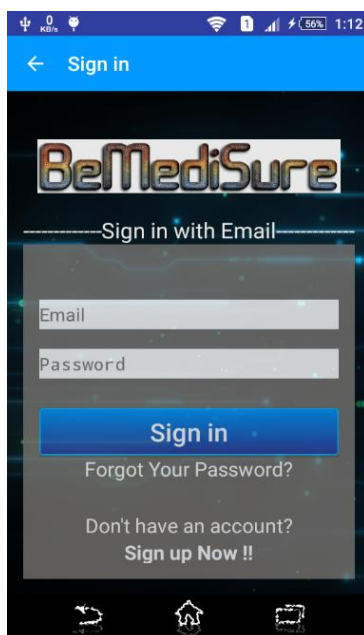
Log in and Registration

Type: Registration

Method: Verification and Store Data

Tasks:

- ➔ It is the page from where user can register for this app.
- ➔ If user already has an account then user can log in to the app.



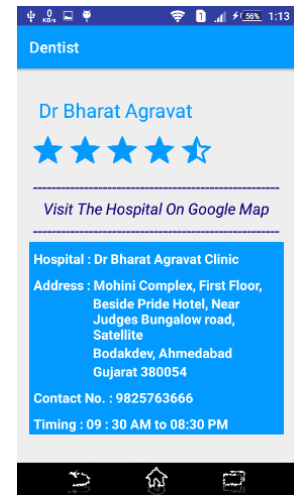
Doctor's details

Type: Find Doctors on Google Map

Method: Google Map

Tasks:

- ➔ It is the page from where user can find the doctor with their name and hospital on the Google map.



It is the generation where everything is available on the fingertips in our mobile phones. Same is the case with medical search engine. This type of apps can be very useful when doctor is not available for guidance. It can be very critical in the emergency situations. Medical Search Engine provide helpful guidance in critical situation, or can also be useful to find the location of a doctors. Medicines for particular diseases, price of that medicine and availability of the same provides user an easy medical life. So, medical search engine can emerge out as a most useful application if necessary and accurate data is available and properly used by the user.

References

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