Workstation Setup:

System Overview:

This is an Android application of E-Health Care Facilities where a user (patient) can get a brief idea about what disease he/she is suffering from just by inputting some symptoms using our smartphone application. Users can even make a pre-appointment with the doctor of their choice. Using our phones facilities the application can enable reminders to take the specific medicine at the specific time according to our medical prescription which is also uploaded by our doctors. Basically, the user can fix appointments with the doctor of their preference, suitable to their convenience of time and date; view his reports; set alerts and reminders.

System Summary:

This app operates on mobile devices with Android operating system. It is compatible with Android 1.5 API level 3 and higher versions. The application requires connection to Internet in order to have access to the functionalities of the app. After installation on the device, app can be used immediately without any further configuration.

User Access Levels:

Everyone can use application, but registration has to be done prior to the usage of application.

Contingencies:

In case of power outage data are not saved in internal memory of the operating device. In case there is no Internet connection available then the application cannot be used.

Installation:

This section briefly describes E-Health Care Facility Application and installation of it on the device. This section briefly presents the log-in and sign-up process.

The app is not available (yet) on Google Play (a.k.a. the Android Market). Consequently, to install the app, you will first have to enable "third-party app installation" in the "developer" settings on your phone. You can then transfer the application package (version 1.0) and install it manually on your device. If you have the "apk" package on a desktop PC, first transfer it to your device, using your USB connection, to a directory of your choice (for example "/download"). If you transferred the "apk" package from a desktop PC or if your system has not automatically prompted you for installation, you then need to install a file manager on your device. I recommend OI File Manager. With this

tool, open the "/download" directory (or the one you chose to store your copy of the "apk" package) and "click" on the ".apk" file to run the installation. The app is currently optimized only for "standard" screen sizes (320x480 pixels) but should not have any problem with other sizes and densities, except for sub-optimal graphics.

Signing In:

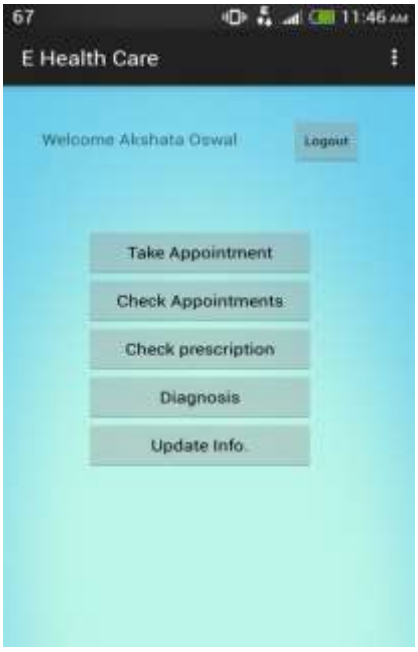
To launch the app, tap the application icon on the home screen of your Android device. The Sign In screen appears. If you do not have an account then create one using signup and then sign in. Enter the username and password. When you are done, tap Sign In.

Note: Your screens might look somewhat different from the examples in this document, but the basic elements are the same.

Signing Up:

If you are a new user then the sign up process has to be completed which requires basic information so fill the information and register.

System Menu:
The system menu comprises of five main tabs: Take Appointments, Check Appointments, Check Prescription, Diagnosis and Update Information.



Take Appointment:
Here the User (Patient) can select the doctor of his/her choice by selecting the speciality, the doctor, time and date of convenience and then fix an appointment.

Check Appointment:

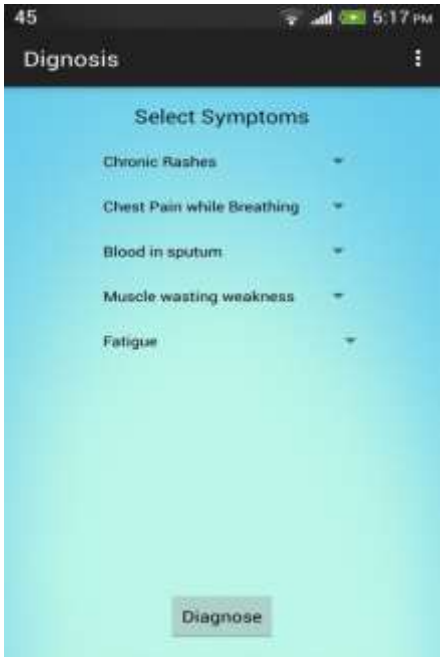
On selecting the check appointment you can get the status of your appointment whether it has been confirmed from the doctors' side or yet has to be confirmed.

Check Prescription:

If the doctor has prescribed any medicines for the patient then that can be viewed here along with the dosage of the prescribed medicines and the time it has to be taken (Morning /Evening /Night).

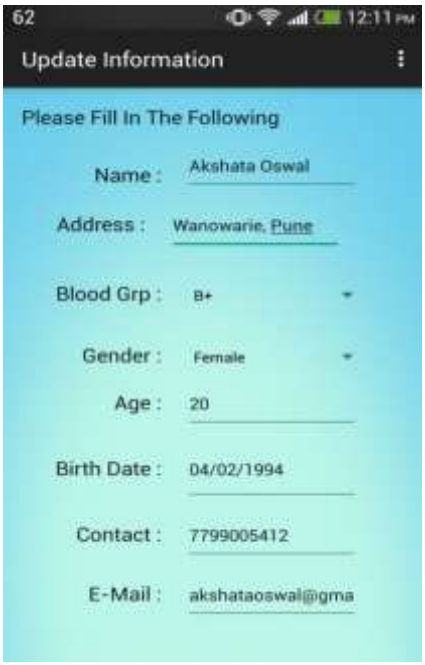
Diagnosis:

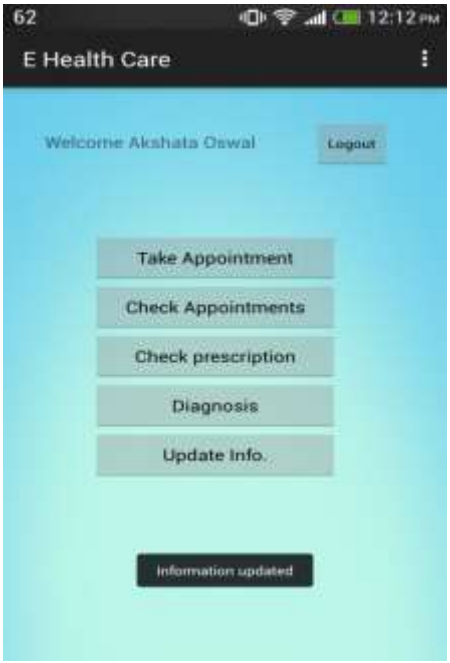
On selecting the disease diagnosis option the patient can find out what disease he/she is suffering from by just selecting the symptoms. Here one has to simply select the symptoms he's facing and click the diagnose button to avail a probable idea of the disease which he/she might be suffering from. Once the user finds out what disease he/she is suffering from they can select the recent trends option and be more assured.



Update Information:

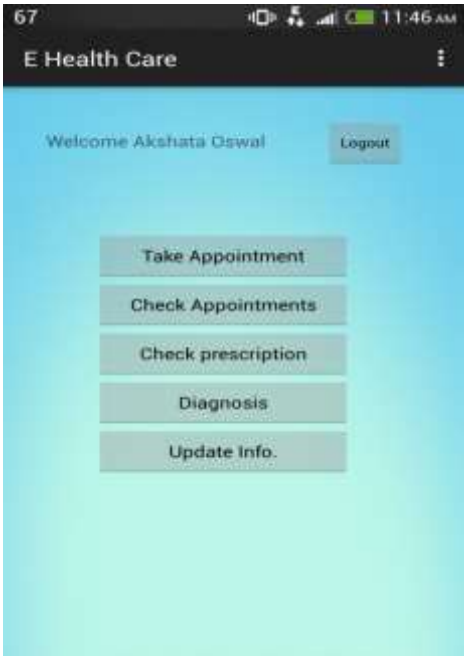
The basic information of the user can be edited any time from the system menu by clicking on the Update Info. button.





Exit System:

The system can be exited simply by logging out from the system menu after carrying out the activities of your choice. This can be done by clicking on the log out button present in the main page.



Software and Hardware Requirements:
Software Requirements:

- Language: Java J2SE and JDK
  J2SE (Java 2 Standard Edition) Java would be the required as language for development of the project. JDK is the development kit used to compile java programs.

- IDE: Eclipse, SDK
  Just like visual studio provides development environment for VB and .Net, Eclipse provides an integrated development environment (IDE) for Java.

- Database, Data Library
  Serialized Objects / Serialization - Database in Java. In case the project needs database.
- GUI:
  AWT and SWING are used for GUI design.

- Computing Architecture:
  In order to implement an architecture or a Software As A Service (SaaS architecture) we need
  • Web Service – we need to implement a web service.
  • GlassFish Server – to host web service
  • SOAP API – to be able to call web service at client side we need to use SOAP API or even XML.

- Rich Client Side Applications:
  When implementing client-server applications or even based applications, the client side applications can be implemented using architecture of java called as (JWS) Java Web Start. This allows us to create applications with rich GUI's which are also called as Rich Internet Applications (RIA). These are smarter than implementing conventional web pages.

Hardware Requirements:

- Smart Phone (Android).
- A server to process all the functions having high power and multiple core processors.