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DEVELOPMENT OF A ANDROID APPLICATION TO HELP CANCER PATIENTS

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OVERVIEW:

What is Android?

Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers.

The first beta version of the Android Software Development Kit (SDK) was
released by Google in 2007 where as the first commercial version,

Fun Fact about Android:

Google OS are always named after sweet, like Cupcake, KitKat, Donut, Nougat, Lollipop, etc. A Google spokesperson once said, “Android powers over the 1 billion smartphones and tablets. Since these devices make our lives so sweet, each android version is named after a dessert”.

TECHNOLOGY USED:

Front End: XML

Android Software Development Kit(SDK):

Android SDK stands for Android Software Development Kit which is developed by Google for Android Platform. With the help of SDK, we can create Android Apps easily.

Android SDK is compatible with all operating systems such as Windows, Linux, macOS, etc.

JAVA Development Kit(JDK):

When you write a program in Java for Android and click a button, your code is transformed into another form understood by Android.

Technology Used:

Front End: XML

Backend: JAVA

OBJECTIVE

- The objective of this project is to develop a multi platform where patient can keep a track of the side effects occurring due to various cancer
- They can view remedy for these side effects
- They can also respond by filling feedback form which doctor can view

IMPLEMENTATION:

- Modules:
  - Admin Module:

    Create and manage hospital staffs and Doctors

    Manage Static data
  - Staff Module:

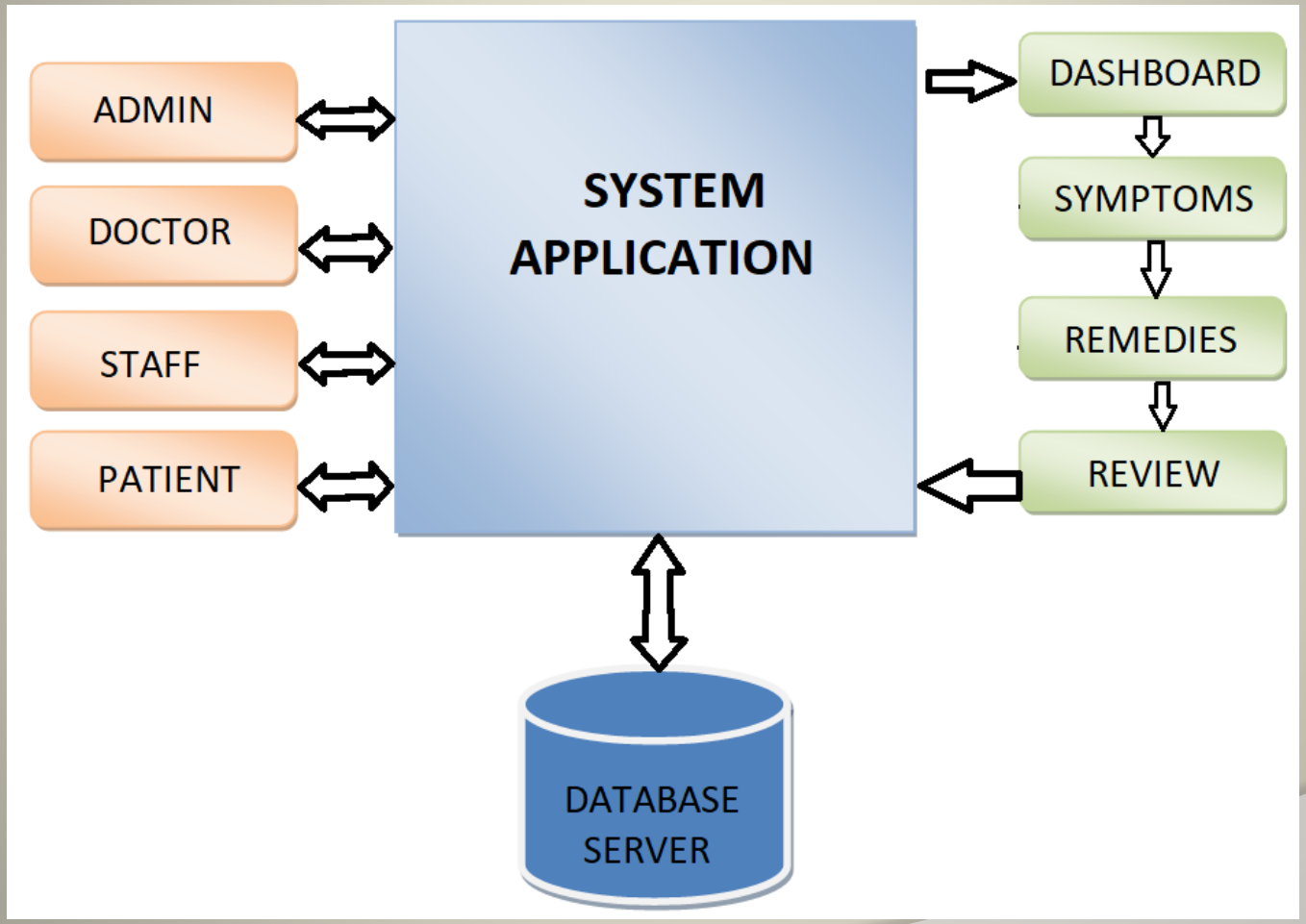
    Create and Manage Patients data
  - Doctor Module:

    Monitor Patients activity
  - Patient Module:

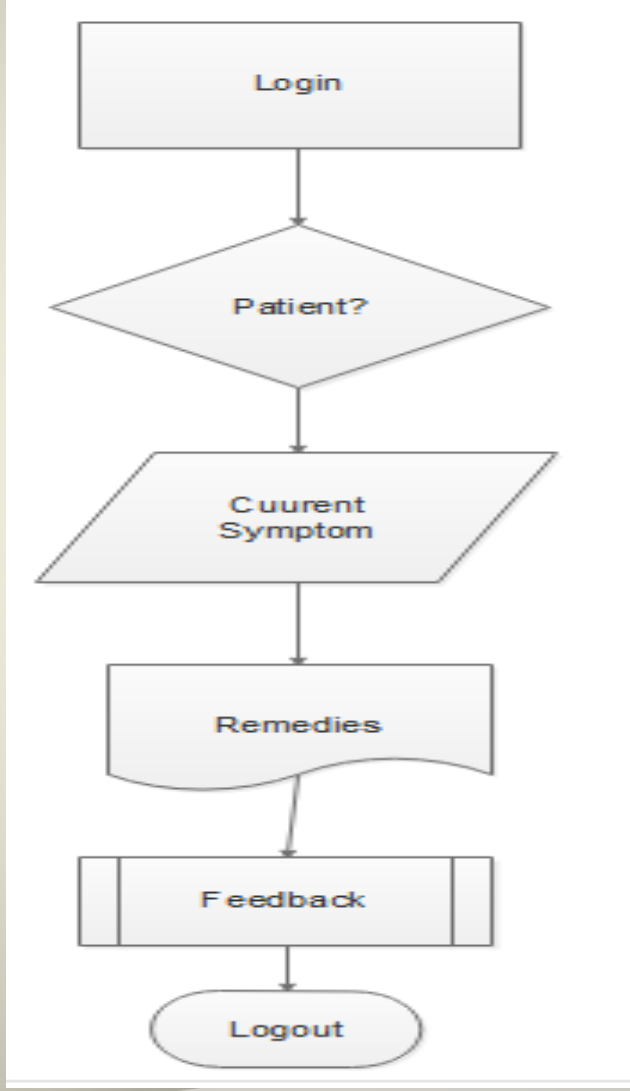
    Check for Side effect remedies

    Review Side effect Remedies

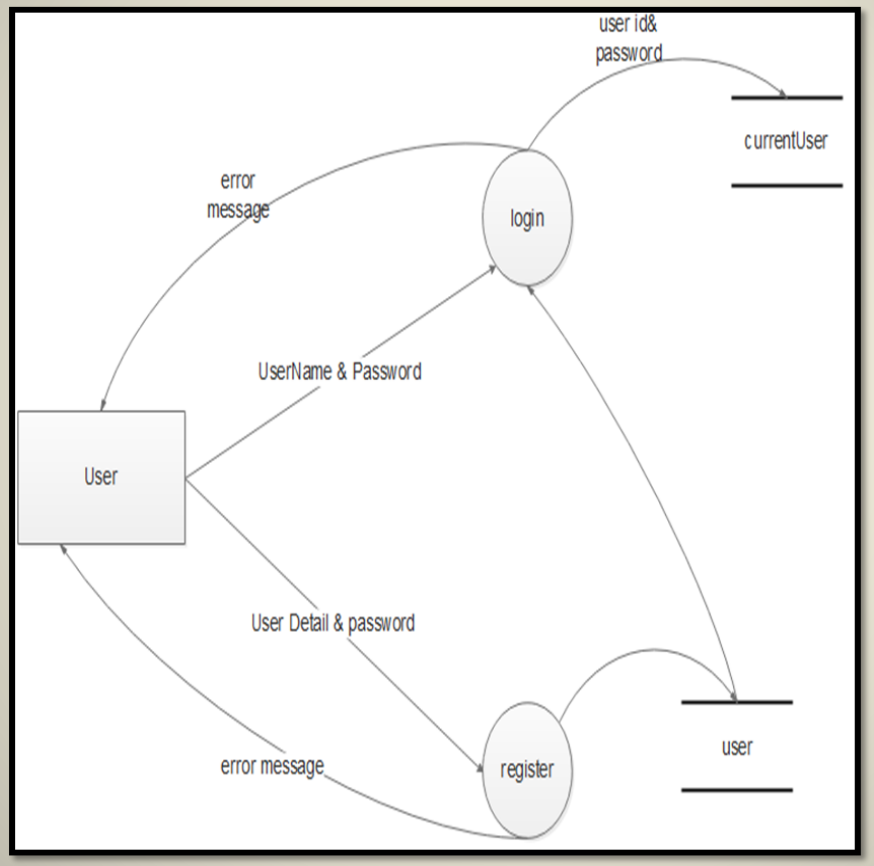
BLOCK DIAGRAM:



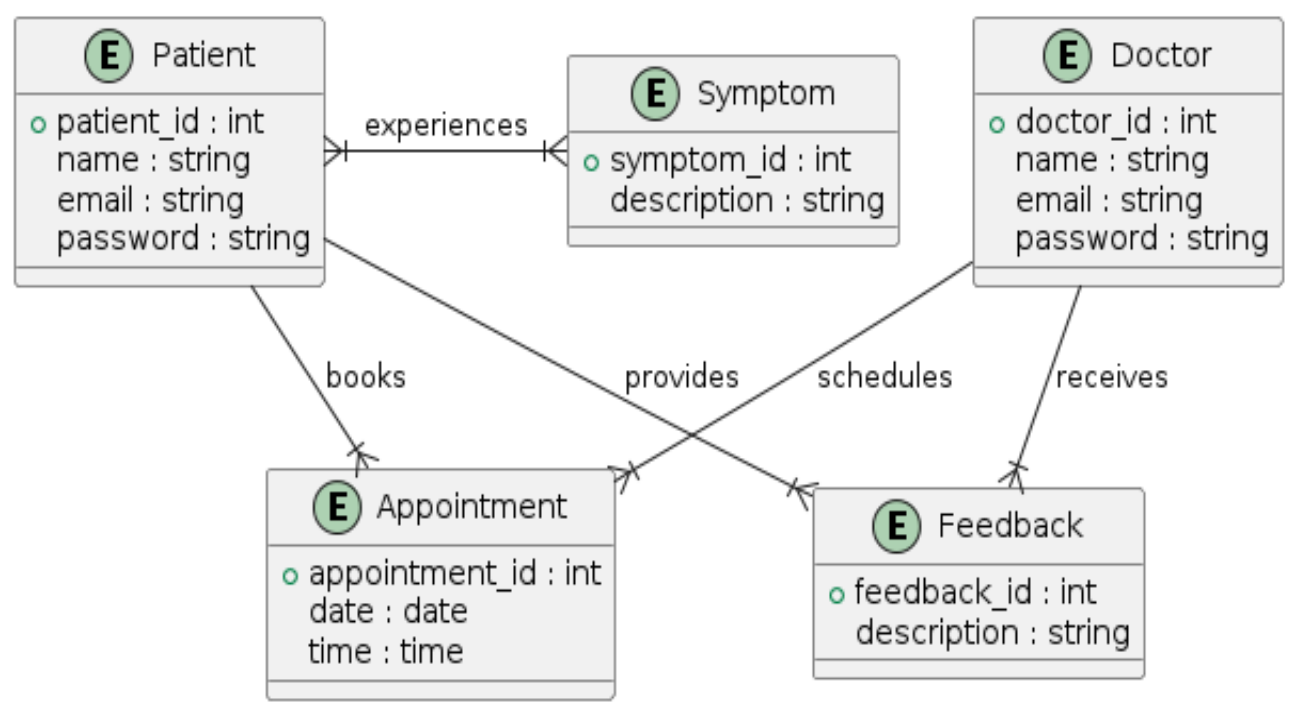
DATA FLOW CHART:



DATA FLOW DIAGRAM :



E-R DIAGRAM :


Patient
patient_id : int
name : string
email : string
password : string
experiences
Symptom
symptom_id : int
description : string
Doctor
doctor_id : int
name : string
email : string
password : string
books
provides
schedules
receives
Appointment
appointment_id : int
date : date
time : time
Feedback
feedback_id : int
description : string

DATABASE SCHEMA: ANDROID

Table 12: Login for Android

Login	
User Name	Password

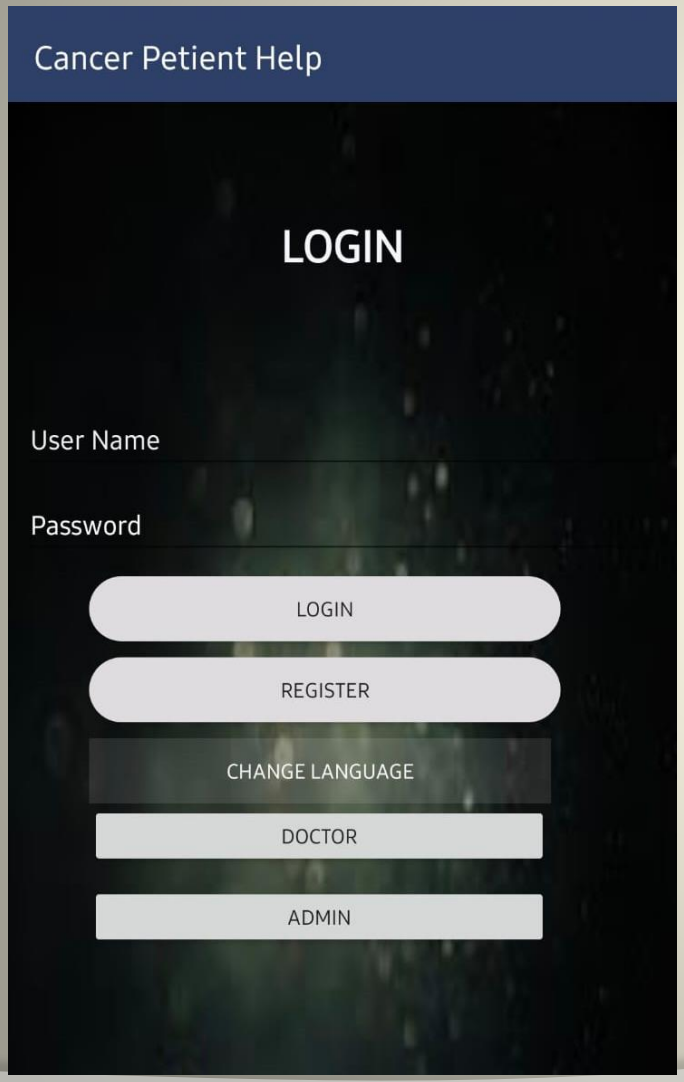
Registration Details					
User Name	First Name	Last Name	Email	Password	Contact Number

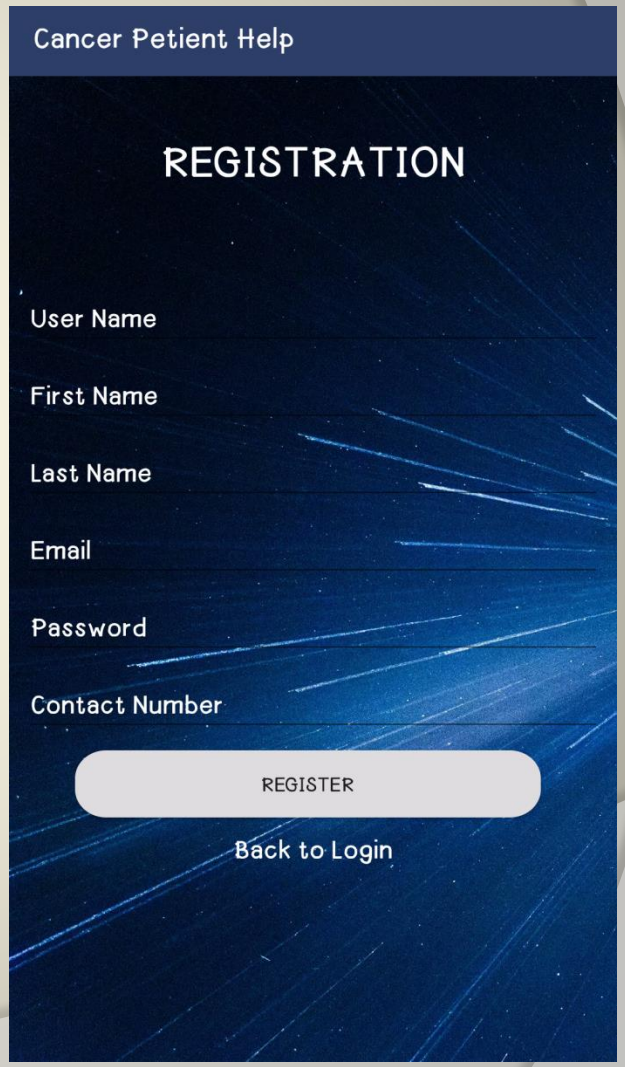
Table 13:Registration For Android

Table 14:feedback Table for android

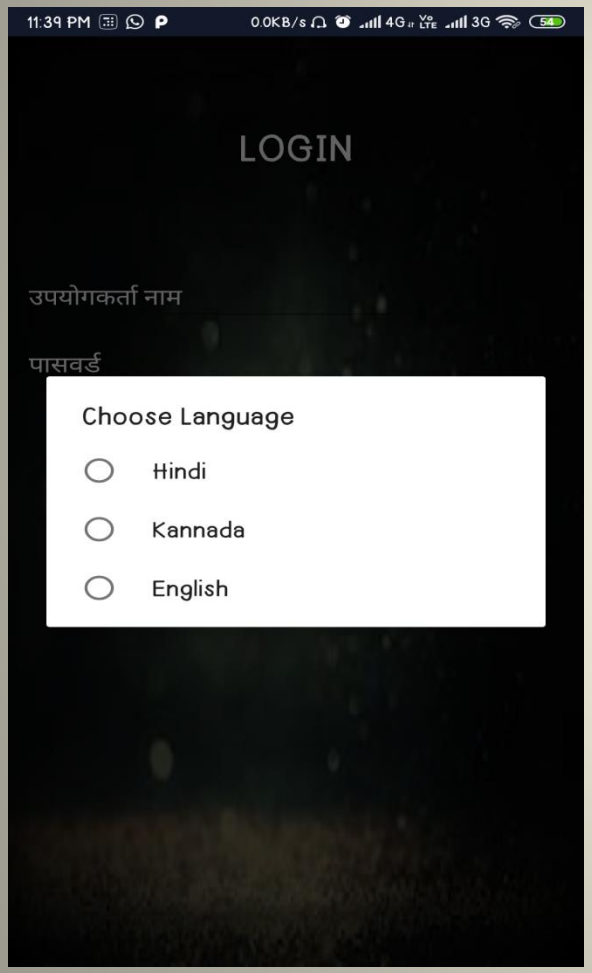
Feedback form for patients				
Feedback	Severity	List of Symptoms	Date From	Date To

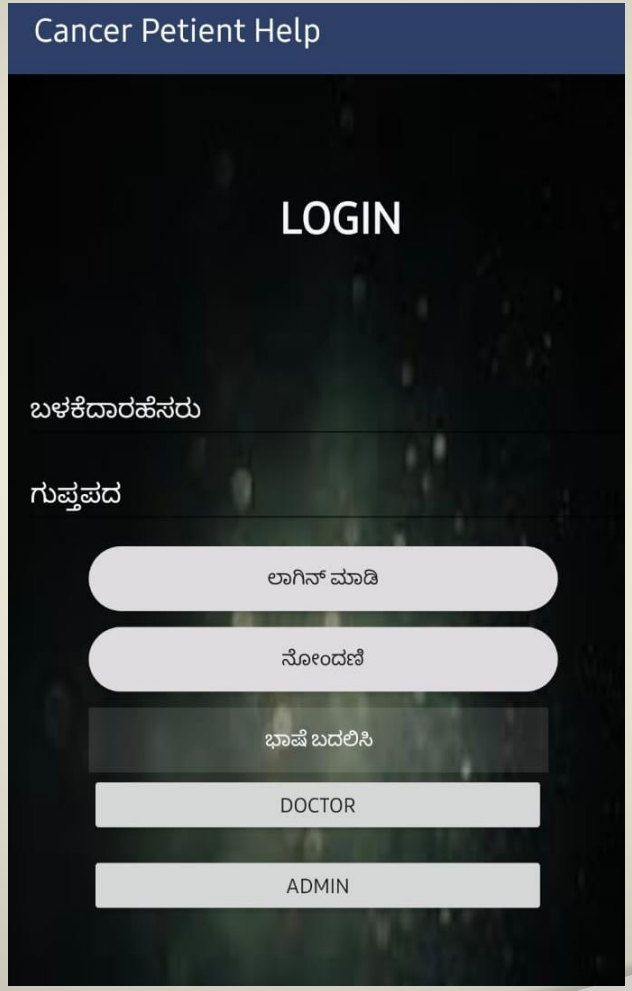
SNAPSHOTS : 1. ANDROID APP :

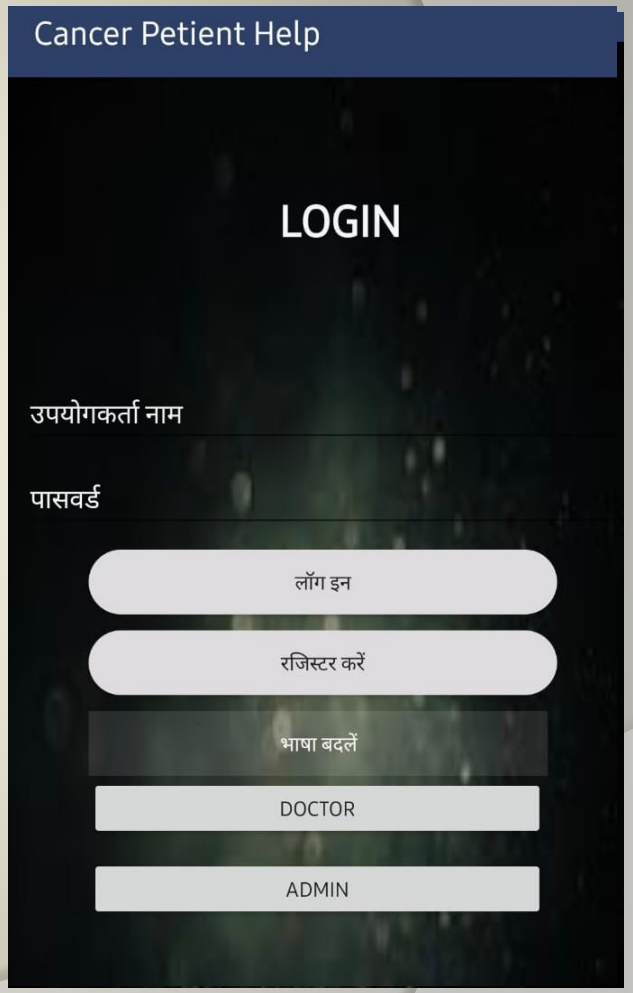




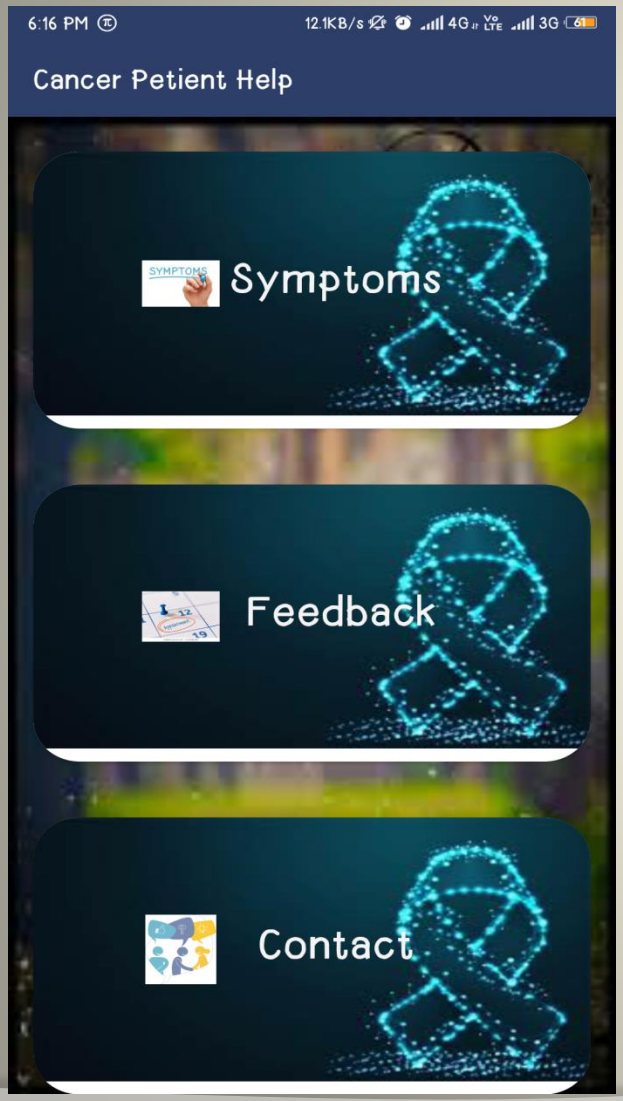
CONTD. :


11:39 PM
0.0KB/s
LOGIN
उपयोगकर्ता नाम
पासवर्ड
Choose Language
Hindi
Kannada
English


Cancer Petient Help
LOGIN
ಬಳಕೆದಾರಹೆಸರು
ಗುಪ್ತಪದ
ಲಾಗಿನ್ ಮಾಡಿ
ನೋಂದಣಿ
ಭಾಷೆ ಬದಲಿಸಿ
DOCTOR
ADMIN


Cancer Petient Help
LOGIN
उपयोगकर्ता नाम
पासवर्ड
लॉग इन
रजिस्टर करें
भाषा बदलें
DOCTOR
ADMIN

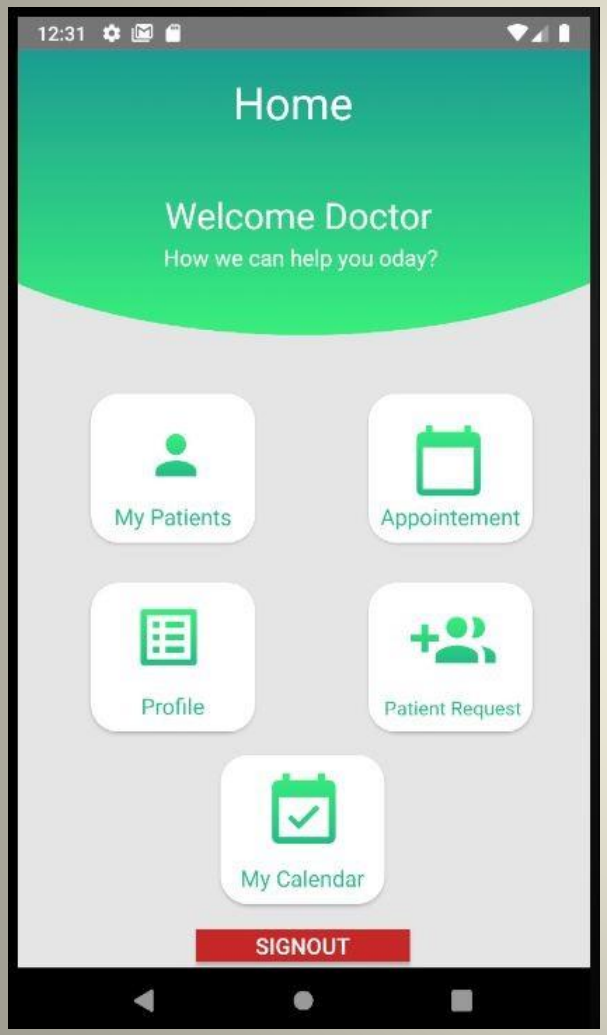
CONTD. :


6:16 PM
12.1KB/s
Cancer Petient Help
Symptoms
Feedback
Contact

Cancer Petient Help
Which symptom are you experiencing?
Alopecia
Anemia
Bleeding problem
Constipation
Diarrhea
Digestive tract problems
Edema
Fatigue
Infection
Insomnia
Loss of appetite

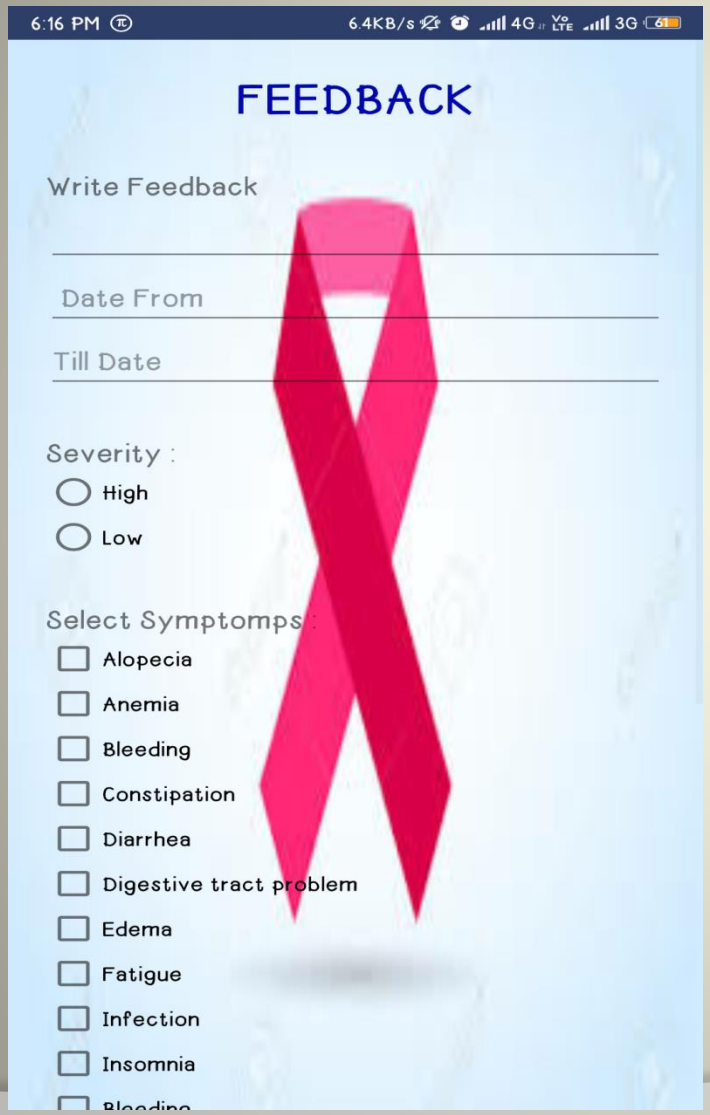
7:47 PM
0.0KB/s
Cancer Petient Help
Loss of appetite
a. Loss of appetite withoutalteration in eating habits
i. Set meal times and routines.
ii. Try new foods to keep up your interest in food.
iii. Eat with family or friends , watch television while you eat.
iv. Choose foods that are high in calories or protein.
v. Take a short walk each day.
vi. Talk with your doctor or nurse about exercises that can help you.
vii. Drink liquids. Getting enough to drink is important,but don't fill up on liquids during meals.

CONTD. :


12:31
Home
Welcome Doctor
How we can help you oday?
My Patients
Appointement
Profile
Patient Request
My Calendar
SIGNOUT

12:44
My Calendar
Jun
15
Mon
9:00-9:30 Available
9:30-10:00 Available
10:00-10:30 Available
10:30-11:00 Available
11:00-11:30 Full
11:30-12:00 Available
12:00-12:30 Available
12:30-13:00 Available
13:00-13:30 Available
13:30-14:00 Available
14:00-14:30 Available
14:30-15:00 Available
15:00-15:30 Available
15:30-16:00 Available
16:00-16:30 Available
16:30-17:00 Available
17:00-17:30 Available
17:30-18:00 Available
18:00-18:30 Available
18:30-19:00 Available

CONTD. :


6:16 PM
6.4KB/s
FEEDBACK
Write Feedback
Date From
Till Date
Severity :
High
Low
Select Symptomps :
Alopecia
Anemia
Bleeding
Constipation
Diarrhea
Digestive tract problem
Edema
Fatigue
Infection
Insomnia

6:16 PM
1.5KB/s
Anemia
Bleeding
Constipation
Diarrhea
Digestive tract problem
Edema
Fatigue
Infection
Insomnia
Bleeding
Memory
Nausea
Oral sores
Pain
Sexual dysfunction
Skin Problem
Urinary Problem
Peripheral Neuropathy
SUBMIT
LOGOUT

CONTD. :

8:21 PM 3.2KB/s
Cancer Petient Help
Contact Support :
Call Now :
+91-6307815581
E-Mail :
cancercare@gmail.com
LOGOUT

CONCLUSION :

- This health care application, helps user to know the symptoms at initial stage and can take necessary precaution against it.
- And helps users to get the instant information and precautions about the particular symptoms.
- Helps the doctor to keep track the precautions followed by the patients.

Future Scope

- Synchronization between web and android application
- Providing more functionality to users
- Implementation change language facility to all other pages as well.

REFERENCE :

- https://cancer.net/navigating-cancer-care/managing-your-care/mobile-applications
- https://www.postgresql.org/docs/8.0/tutorial.html
- https://developer.android.com/reference/androidx/classes