

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
        android:id="@+id/my_drawer_layout"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:context=".MainActivity"
        tools:ignore="HardcodedText">

    <ScrollView

        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <LinearLayout

            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:paddingLeft="20dp"
            android:paddingRight="20dp">
            <ImageView

                android:id="@+id/imageView2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                app:srcCompat="@drawable/img_5" />

            <TextView

                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:textColor="@color/black"
                android:textSize="18dp"
                android:text="@string/gpm" />

            </LinearLayout>

        </ScrollView>

</androidx.drawerlayout.widget.DrawerLayout>

<com.google.android.material.navigation.NavigationView
```

```
        android:id="@+id/navigationView"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_gravity="start"
        app:headerLayout="@layout/header_menu"
        app:menu="@menu/navigation_menu"
        android:fitsSystemWindows="true"
        />

</androidx.drawerlayout.widget.DrawerLayout>
```

MainActivity.java

```
package com.example.pract_5chat;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.MenuItem;
import android.widget.Toast;
import android.widget.Toolbar;

import com.example.pract_5chat.R;
import com.google.android.material.navigation.NavigationView;

public class MainActivity extends AppCompatActivity {

    public DrawerLayout drawerLayout;
    NavigationView navigationView;
    Toolbar toolbar;
    public ActionBarDrawerToggle
    actionBarDrawerToggle;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
    savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main)
        ;

        // drawer layout instance to
        toggle the menu icon to open
        // drawer and back button to
        close drawer
        drawerLayout =
        findViewById(R.id.my_drawer_layout);
        navigationView =
        findViewById(R.id.navigationView);
        actionBarDrawerToggle = new
        ActionBarDrawerToggle(this,
        drawerLayout, R.string.nav_open,
        R.string.nav_close);

        drawerLayout.addDrawerListener(actionB
        arDrawerToggle);

        actionBarDrawerToggle.syncState();
```

```
getSupportActionBar().setDisplayHomeAsUpEnabled(true);

navigationView.setNavigationItemSelectedListener(new
    NavigationView.OnNavigationItemSelectedListener() {
        @Override
        public boolean
        onNavigationItemSelectedListener(@NonNull
        MenuItem item) {
            switch
            (item.getItemId()) {

                case R.id.home:

                    Toast.makeText(MainActivity.this,
                    "home clicked",
                    Toast.LENGTH_SHORT).show();

                    drawerLayout.closeDrawer(GravityCompat
                    .START);

                    break;

                case R.id.about:

                    Toast.makeText(MainActivity.this,
                    "about clicked",
                    Toast.LENGTH_SHORT).show();

                    drawerLayout.closeDrawer(GravityCompat
                    .START);

                    Intent about =
                    new Intent(MainActivity.this,
                    About.class);

                    startActivity(about);

                    break;

                case R.id.logout:

                    Toast.makeText(MainActivity.this,
                    "logout clicked",
                    Toast.LENGTH_SHORT).show();

                    Intent
                    homeIntent = new
                    Intent(Intent.ACTION_MAIN);

                    homeIntent.addCategory(
                    Intent.CATEGORY_HOME );

                    homeIntent.setFlags(Intent.FLAG_ACTIVI
                    TY_CLEAR_TOP);

                    startActivity(homeIntent);

                    break;

                case
                R.id.Computer:

                    Toast.makeText(MainActivity.this,
                    "computer clicked",
                    Toast.LENGTH_SHORT).show();

                    drawerLayout.closeDrawer(GravityCompat
                    .START);

                    Intent
                    computer = new
```

```

Intent(MainActivity.this,
Computer.class);

startActivity(computer);

                break;
            case R.id.it:

Toast.makeText(MainActivity.this,
"Information technology clicked",
Toast.LENGTH_SHORT).show();

drawerLayout.closeDrawer(GravityCompat
.START);

                Intent It =
new Intent(MainActivity.this,
IT.class);

startActivity(It);

                break;
            case
R.id.instrumentation:

Toast.makeText(MainActivity.this,
"Instrumentation clicked",
Toast.LENGTH_SHORT).show();

Log.i("MENU_DRAWER_TAG", "Computer
clicked");

drawerLayout.closeDrawer(GravityCompat
.START);

                Intent
instrument = new
Intent(MainActivity.this,
Instrumentation.class);

startActivity(instrument);

                break;
            case
R.id.electrical:

Toast.makeText(MainActivity.this,
"electrical clicked",
Toast.LENGTH_SHORT).show();

Log.i("MENU_DRAWER_TAG", "electrical
clicked");

drawerLayout.closeDrawer(GravityCompat
.START);

                Intent
electrical = new
Intent(MainActivity.this,
Electrical.class);

startActivity(electrical);

                break;
            //                case
R.id.electrical:
            //
Toast.makeText(MainActivity.this,
"computer clicked",
Toast.LENGTH_SHORT).show();
            //                break;
        }

```

```

                return true;
            }

        });

    }

    @Override
    public boolean
onOptionsItemSelected(@NonNull
MenuItem item) {

        if
(actionBarDrawerToggle.onOptionsItemSelected(item)) {
            return true;
        }
        return
super.onOptionsItemSelected(item);
    }
}

```

header_menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.
com/apk/res/android"

    xmlns:app="http://schemas.android.com/
apk/res-auto"
        android:orientation="horizontal"

    android:layout_width="match_parent"
        android:layout_height="200dp"
        android:padding="10dp"
        android:background="#00E6FB">

    <ImageView
        android:layout_width="80dp"
        android:layout_height="100dp"

    android:layout_marginTop="22dp"
        android:src="@drawable/img" />

    <TextView
        android:layout_width="175dp"
        android:layout_height="112dp"
        android:paddingLeft="10dp"
        android:paddingTop="45dp"
        android:text="DNYANDEEP
GAONKAR"
        android:textColor="#FF0000"
        android:textSize="22dp"
        android:textStyle="bold" />
</LinearLayout>
```

navigation_menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu
xmlns:android="http://schemas.android.
com/apk/res/android"

xmlns:tools="http://schemas.android.co
m/tools"
    tools:ignore="HardcodedText">

    <group
android:checkableBehavior="single">
        <item
            android:id="@+id/home"

android:icon="@drawable/home"
            android:title="Home" />
        <item
            android:id="@+id/about"

android:icon="@drawable/about"
            android:title="About" />

    </group>

    <group
android:checkableBehavior="single">
        <item
            android:title="Departments">
            <menu>
                <group>
                    <item

android:id="@+id/Computer"

android:icon="@drawable/img_1"

android:title="Computer" />
                    </item>

android:id="@+id/it"

android:icon="@drawable/it"

android:title="Information Technology"
/>
                    </item>

android:id="@+id/electrical"

android:icon="@drawable/img_4"

android:title="Electrical" />
                    </item>

android:id="@+id/instrumentation"

android:icon="@drawable/img_6"

android:title="Instrumentation" />
                </group>
            </menu>
        </item>

    </group>

    <group
android:checkableBehavior="single">
        <item>
```

```
        <menu>
            <group>
                <item

android:id="@+id/logout"

android:title="Logout"

android:icon="@drawable/exit"/>
                </group>
            </menu>
        </item>
    </group>

</menu>
```

All the department activity code is the same only the string value and logo image is changed

activity_computer.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/img_2"
    android:scrollbarSize="20dp"
    tools:context=".Computer">

    <TextView
        android:id="@+id/textView"
        android:layout_width="227dp"
        android:layout_height="67dp"

        android:layout_marginTop="75dp"
        android:text="Computer"
        android:textAlignment="center"
        android:textColor="#000DFF"
        android:textSize="44dp"
        android:textStyle="bold"

        app:layout_constraintBottom_toTopOf="@+id/imageView"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.505"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="237dp"
        android:layout_height="182dp"

        android:layout_marginTop="15dp"

        app:layout_constraintBottom_toTopOf="@+id/scrollView2"

        app:layout_constraintEnd_toEndOf="parent"
```

```
        app:layout_constraintHorizontal_bias="0.573"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/textView"

        app:layout_constraintVertical_bias="0.0"

        app:srcCompat="@drawable/img_1" />

    <ScrollView
        android:id="@+id/scrollView2"

        android:layout_width="match_parent"
        android:layout_height="350dp"
        android:layout_marginTop="1dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toBottomOf="@+id/imageView">

        <LinearLayout

            android:layout_width="match_parent"

            android:layout_height="match_parent"

            android:orientation="vertical"
            android:paddingLeft="10dp"

            android:paddingRight="10dp">

            <TextView

                android:id="@+id/textView3"

                android:layout_width="400dp"

                android:layout_height="match_parent"

                android:layout_marginEnd="353dp"

                android:layout_marginRight="353dp"

                android:text="@string/computer"

                android:textColor="#000000"

                android:textSize="18dp"
```

```
app:layout_constraintBottom_toBottomOf
="parent"

app:layout_constraintEnd_toEndOf="pare
nt"

app:layout_constraintStart_toStartOf="
parent" />
    </LinearLayout>
</ScrollView>

</androidx.constraintlayout.widget.Con
straintLayout>
```

Computer.java

```
package com.example.pract_5chat;

import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class Computer extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_compu
ter);
    }
}
```


activity_about.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    android:background="@drawable/img_2"

        tools:context=".About">

        <TextView
            android:id="@+id/textView4"

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:layout_marginTop="40dp"
            android:text="About"
            android:textSize="54dp"

            app:layout_constraintEnd_toEndOf="parent"

            app:layout_constraintHorizontal_bias="0.498"

            app:layout_constraintStart_toStartOf="parent"

            app:layout_constraintTop_toTopOf="parent" />

        <ScrollView
            android:layout_width="362dp"
            android:layout_height="543dp"

            app:layout_constraintBottom_toBottomOf="parent"

            tools:layout_editor_absoluteX="1dp">

            <LinearLayout

                android:layout_width="match_parent"

                android:layout_height="wrap_content"

                android:orientation="vertical"
                android:paddingLeft="20dp"

                android:paddingRight="20dp">

                <TextView

                    android:id="@+id/textView5"

                    android:layout_width="wrap_content"
```

```
                android:layout_height="match_parent"

                android:text="@string/gpm"

                android:textColor="#000000"

                android:textSize="18dp" />
            </LinearLayout>
        </ScrollView>
    </androidx.constraintlayout.widget.ConstraintLayout>
```

About.java

```
package com.example.pract_5chat;

import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

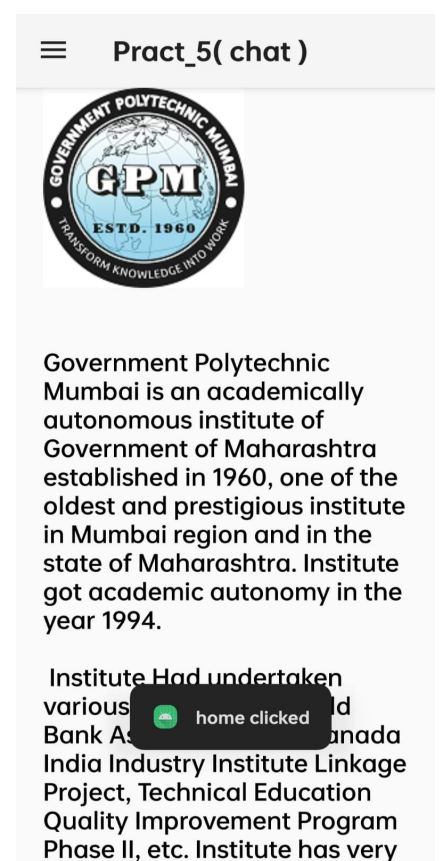
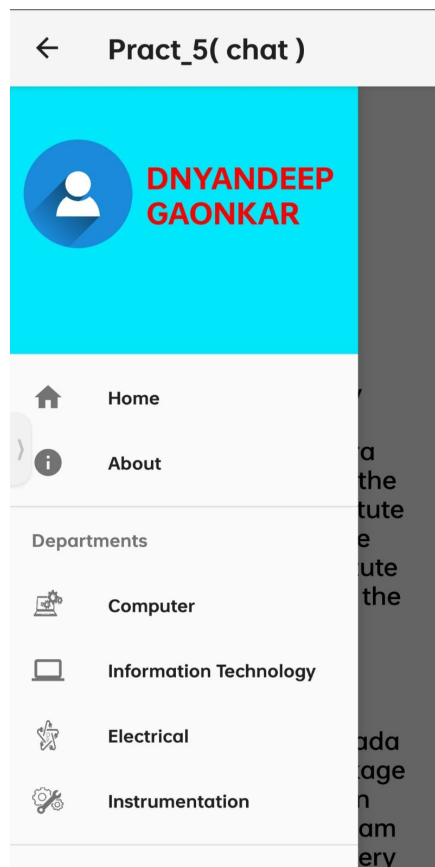
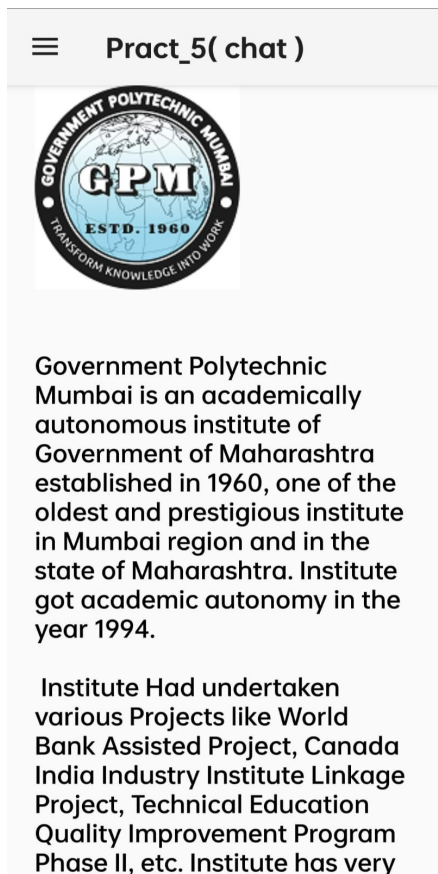
public class About extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_about
);
    }
}
```

OUTPUT



About

Government Polytechnic Mumbai is an academically autonomous institute of Government of Maharashtra established in 1960, one of the oldest and prestigious institute in Mumbai region and in the state of Maharashtra. Institute got academic autonomy in the year 1994.

Institute Had undertaken various Projects like World Bank Assisted Project, Canada India Industry Institute Linkage Project, Technical Education Quality Improvement Program Phase II, etc. Institute has very good liaison with industries.

Institute is offering 3 years of AICTE approved diploma sandwich pattern programme in following branches

Computer



Computer engineering is a field of that combines principles from elec engineering and computer science design and develop computer syst their components. It involves the d development, testing, and implem computer hardware, software, and Computer engineering is a broad f covers a range of topics, including systems design, computer architec operating systems, computer netw artificial intelligence, and more. Cc engineers work in a variety of indu including technoloav. telecommun

Information Technology



Information Technology Engineering (ITE) is a field of engineering that involves the development, implementation, and management of computer-based information systems. ITE professionals design and maintain the hardware, software, and network infrastructure that support data storage, processing, and transmission. ITE includes sub-disciplines such as software engineering

Electrical



Electrical engineering involves the study and application of electricity, electronics, and electromagnetism. It includes the design, development, and testing of electrical equipment and systems, as well as power distribution and communication systems. Electrical engineering covers a range of sub-disciplines, such as power engineering, control systems, and telecommunications. Professionals in this field use

Instrumentation



Instrumentation engineering is a branch of engineering that deals with the design, development, and maintenance of instruments and control systems used in various industries. It involves the measurement and control of variables such as temperature, pressure, flow rate, and level, which are critical to the operation of industrial processes. Instrumentation engineers work to ensure the accuracy and

logout clicked