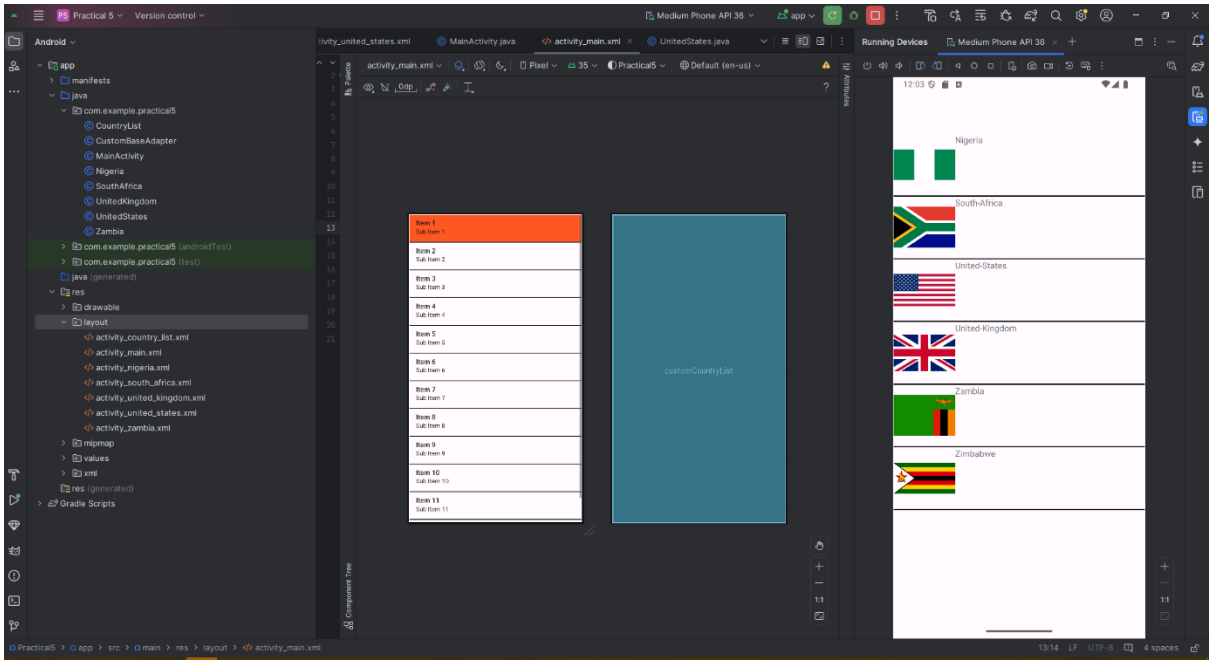
Tinotenda Mhedziso

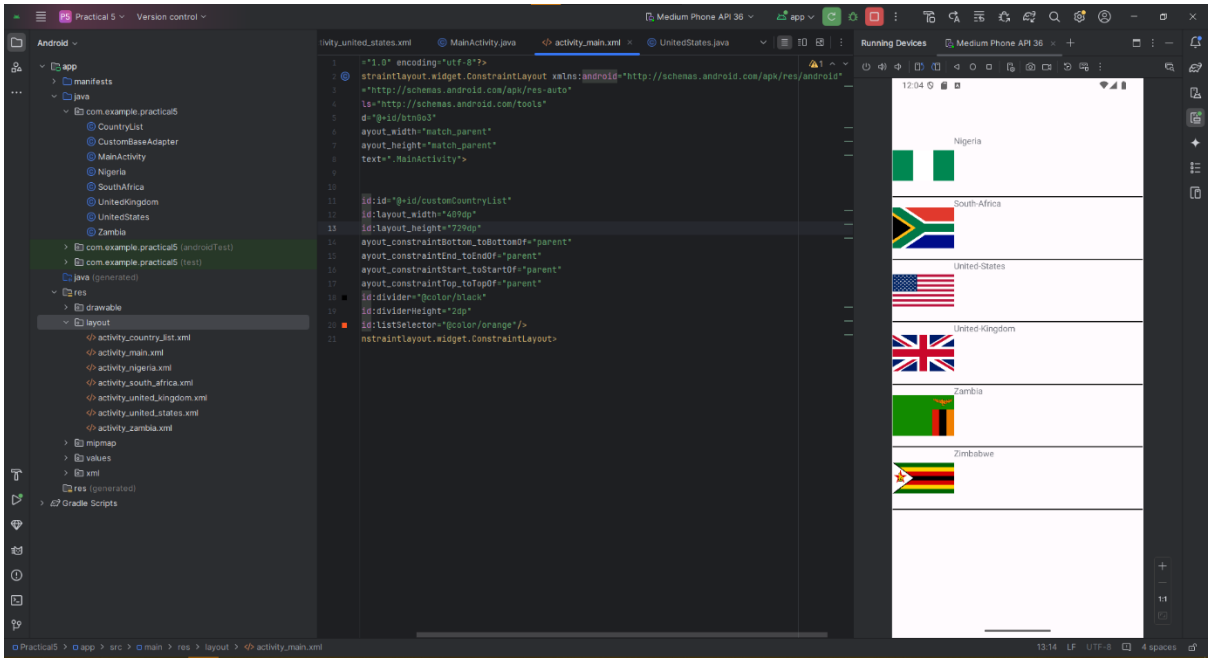
IMOB301 Practical 5

Question 1

1. A ListActivity is a specific screen in Android studio that is made for showing lists. Instead of adding a ListView manually, a ListActivity already comes with one. Developers can use it to show a list of items (like names, numbers, or options) easily.
2. An ArrayAdapter is a helper that connects a list of items (like names or numbers) to a ListView so they can be shown on the screen. It takes a list (array) and arranges the items in the ListView automatically.
3. This method is used in ListActivity to connect a list of items to the built-in ListView. It tells the ListActivity what list to show.
4. An Intent is a way to tell Android to do something, like opening a new screen or sending a message. This can be seen as a user's intention, such as requesting a ride on Bolt (new screen for this).

Question 2

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Version control
Medium Phone API 36
app
Android
app
manifests
java
com.example.practical5
CountryList
CustomBaseAdapter
MainActivity
Nigeria
SouthAfrica
UnitedKingdom
UnitedStates
Zambia
com.example.practical5 (androidTest)
com.example.practical5 (test)
java (generated)
res
drawable
layout
activity_country_list.xml
activity_main.xml
activity_nigeria.xml
activity_south_africa.xml
activity_united_kingdom.xml
activity_united_states.xml
activity_zambia.xml
mipmap
values
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res (generated)
Gradle Scripts
activity_main.xml
UnitedStates.java
Running Devices
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Nigeria
South-Africa
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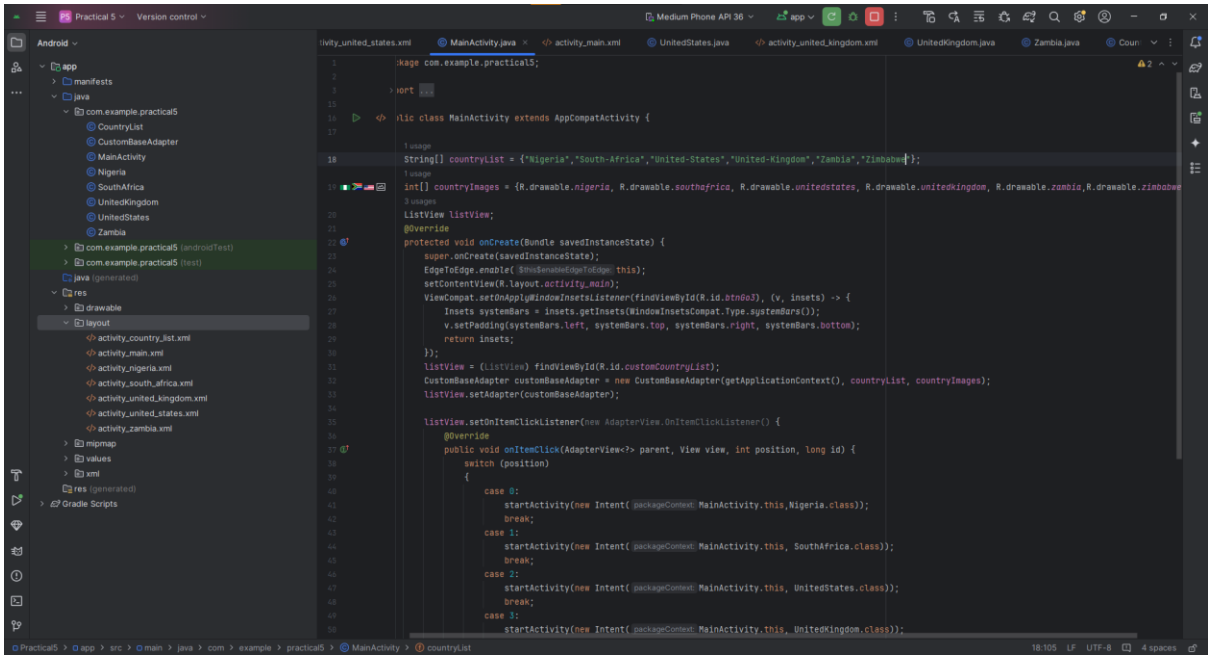
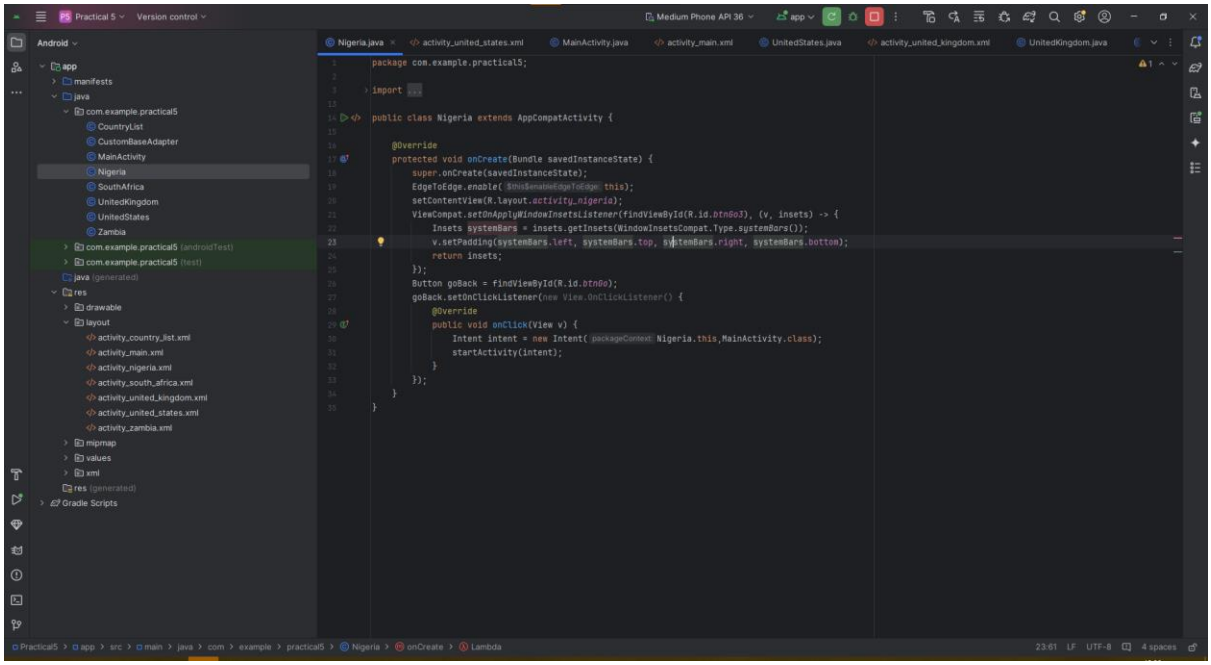
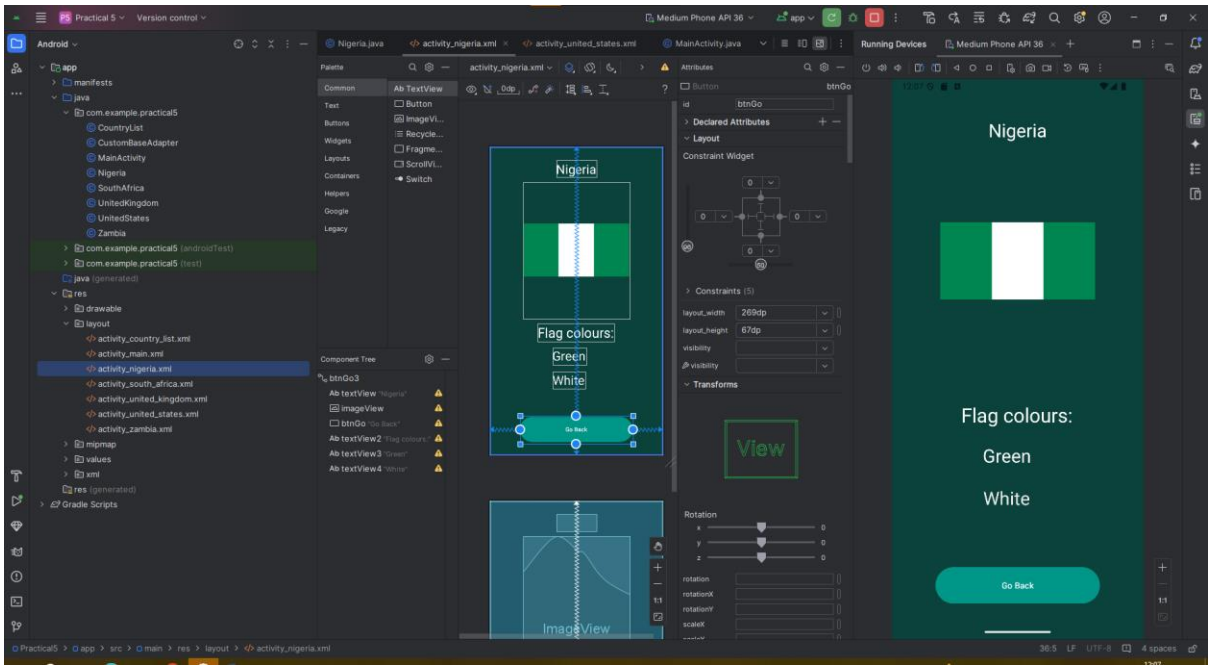
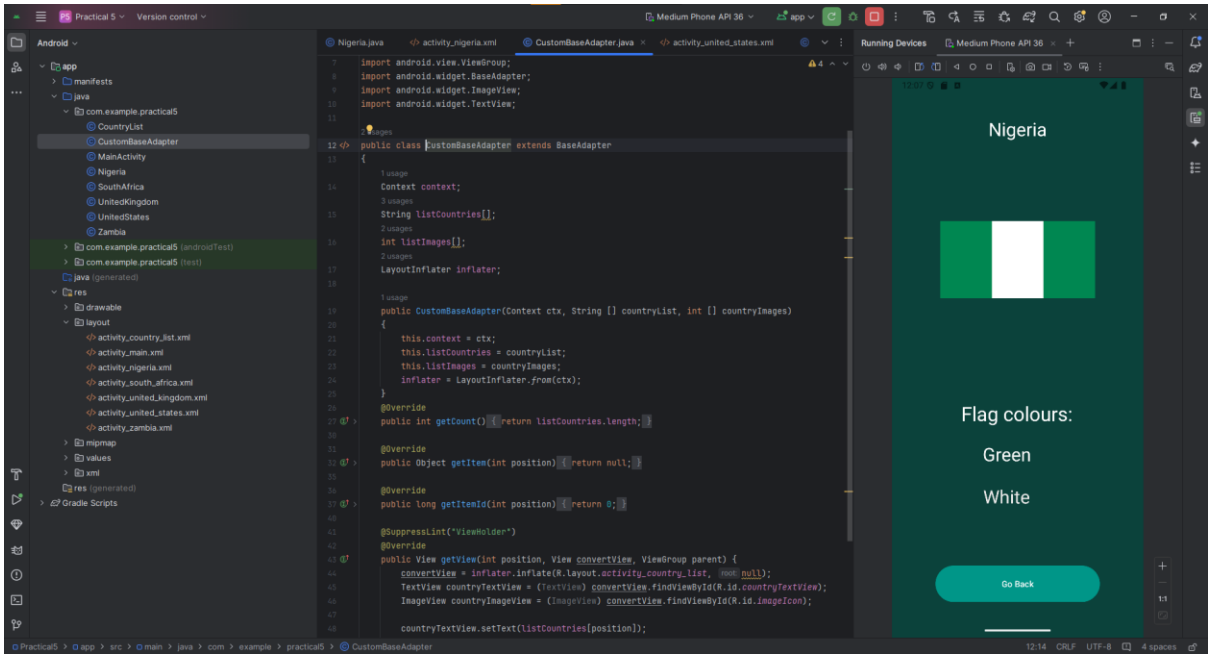
Zimbabwe

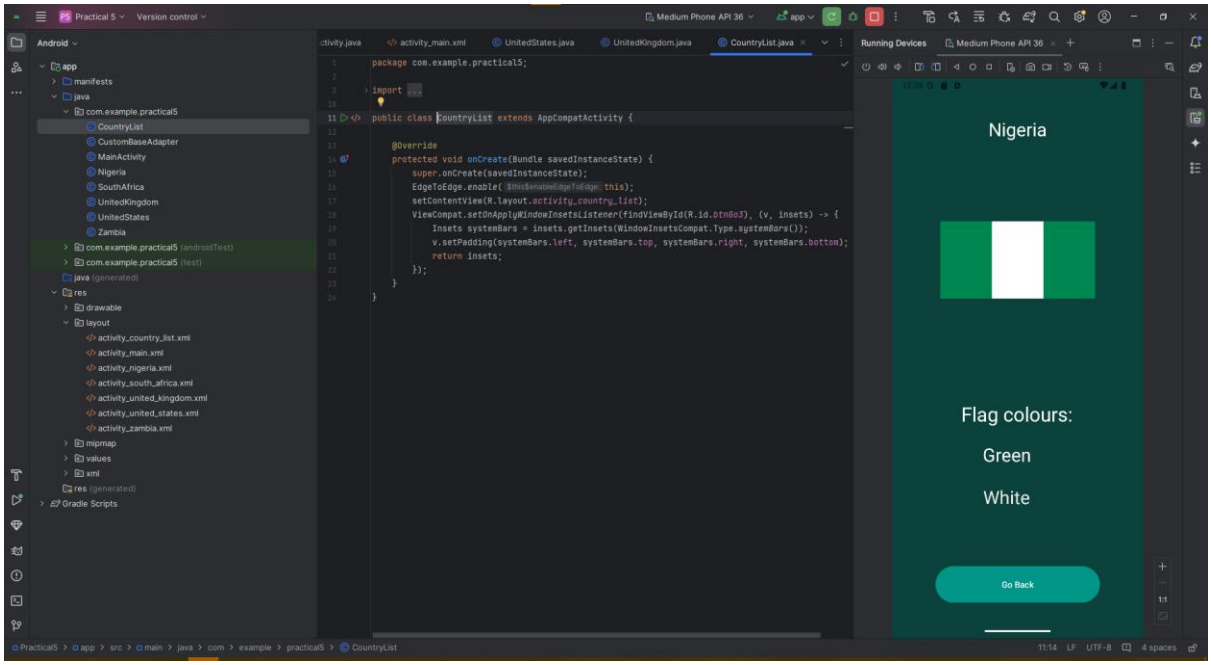

Practical 5
Version control
Medium Phone API 36
app
MainActivity.java
activity_main.xml
UnitedStates.java
activity_united_kingdom.xml
UnitedKingdom.java
Zambia.java
String[] countryList = {"Nigeria","South-Africa","United-States","United-Kingdom","Zambia","Zimbabwe"};
int[] countryImages = {R.drawable.nigeria, R.drawable.southafrica, R.drawable.unitedstates, R.drawable.unitedkingdom, R.drawable.zambia,R.drawable.zimbabwe
ListView listView;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
EdgeToEdge.enable($this$enableEdgeToEdge: this);
setContentView(R.layout.activity_main);
ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.btnGo3), (v, insets) -> {
Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
return insets;
});
listView = (ListView) findViewById(R.id.customCountryList);
CustomBaseAdapter customBaseAdapter = new CustomBaseAdapter(getApplicationContext(), countryList, countryImages);
listView.setAdapter(customBaseAdapter);
listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
@Override
public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
switch (position)
{
case 0:
startActivity(new Intent(packageContext: MainActivity.this,Nigeria.class));
break;
case 1:
startActivity(new Intent(packageContext: MainActivity.this, SouthAfrica.class));
break;
case 2:
startActivity(new Intent(packageContext: MainActivity.this, UnitedStates.class));
break;
case 3:
startActivity(new Intent(packageContext: MainActivity.this, UnitedKingdom.class));



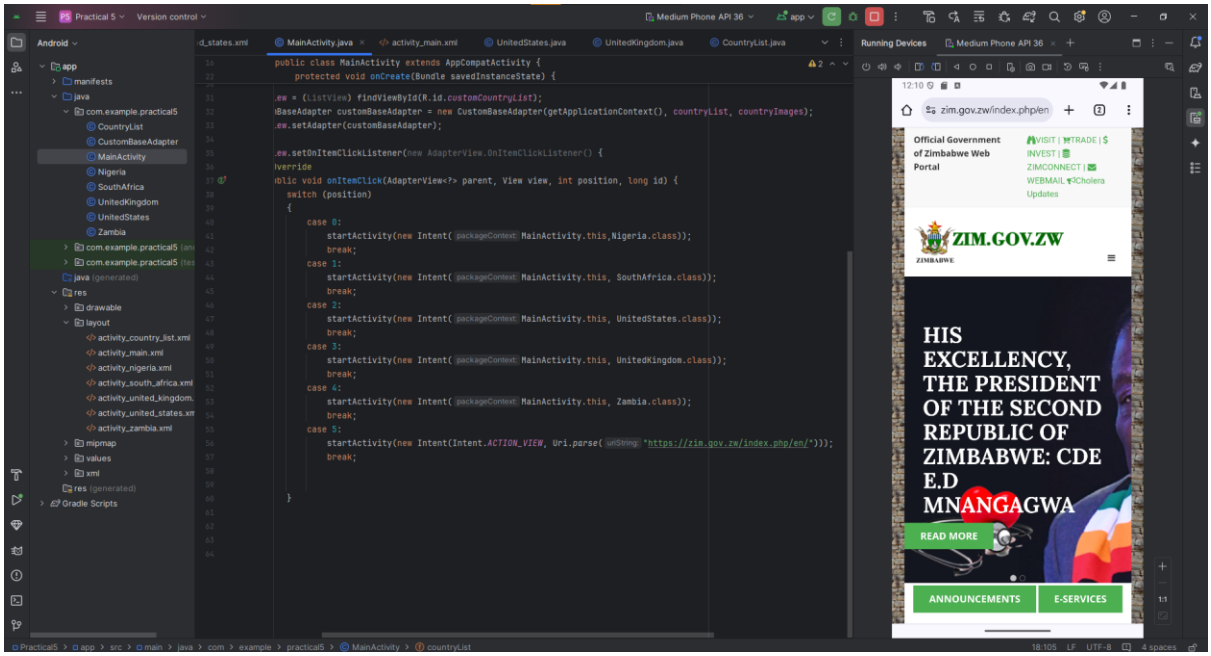
```
package com.example.practical5;

import ...

public class Nigeria extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable( this);
        setContentView(R.layout.activity_nigeria);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.btnGo3), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
        Button goBack = findViewById(R.id.btnGo);
        goBack.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent( packageContext: Nigeria.this,MainActivity.class);
                startActivity(intent);
            }
        });
    }
}
```







Other countries follow the same nature: A User can navigate to and from a country screen. Zimbabwe option opens the governmental website for Zimbabwe:


Practical 5
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UnitedStates.java
UnitedKingdom.java
CountryList.java
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activity_united_states.xm
activity_zambia.xml
mipmap
values
xml
Gradle Scripts
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protected void onCreate(Bundle savedInstanceState) {
.ew = (ListView) findViewById(R.id.customCountryList);
iBaseAdapter customBaseAdapter = new CustomBaseAdapter(getApplicationContext(), countryList, countryImages);
.ew.setAdapter(customBaseAdapter);
.ew.setOnItemClickListener(new AdapterView.OnItemClickListener() {
Iverride
ublic void onItemClick(AdapterView<?> parent, View view, int position, long id) {
switch (position)
{
case 0:
startActivity(new Intent(packageContext: MainActivity.this,Nigeria.class));
break;
case 1:
startActivity(new Intent(packageContext: MainActivity.this, SouthAfrica.class));
break;
case 2:
startActivity(new Intent(packageContext: MainActivity.this, UnitedStates.class));
break;
case 3:
startActivity(new Intent(packageContext: MainActivity.this, UnitedKingdom.class));
break;
case 4:
startActivity(new Intent(packageContext: MainActivity.this, Zambia.class));
break;
case 5:
startActivity(new Intent(Intent.ACTION_VIEW, Uri.parse(uriString: "https://zim.gov.zw/index.php/en/")));
break;
}
zim.gov.zw/index.php/en
Official Government of Zimbabwe Web Portal
VISIT | TRADE | $ INVEST |
ZIMCONNECT |
WEBMAIL
Cholera Updates
ZIM.GOV.ZW
ZIMBABWE
HIS EXCELLENCY, THE PRESIDENT OF THE SECOND REPUBLIC OF ZIMBABWE: CDE E.D MNANGAGWA
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E-SERVICES
Practical5 › app › src › main › java › com › example › practical5 › MainActivity › countryList
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