DEPARTMENT OF COMPUTER ENGINEERING

PRACTICAL ASSESSMENT SHEET

Experiment number: - 06

Title of experiment: - EASY LEARNING GUI USING ANDROID STUDIO

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Roll number: - 68

Date of performance: -

Date of submission: -

| Attendance | Submission | Performance | Oral | Result | Total |
|------------|------------|-------------|----------|----------|----------|
| 03 marks | 03 marks | 03 marks | 03 marks | 03 marks | 15 marks |
| | | | | | |

Faculty Signature with date

SUB: MOBILE COMPUTING SEM: VI A.Y: 2022-23

Practical No. 06

TITLE: EASY GUI USING ANDROID STUDIO

AIM: IMPLEMENT EASY GUI USING ANDROID STUDIO

APPARATUS: ANDROID STUDIO

THEORY:

• activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout</pre>
   xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   android:layout_width="match_parent"
   android:layout height="match parent"
   android:orientation="vertical"
   android:background="@drawable/bg">
   <RelativeLayout
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:padding="30dp">
        <TextView
            android:id="@+id/hello"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Hello,"
            android:textColor="#fff"
            android:textSize="20dp"/>
```

```
android:textSize="20dp"/>
<TextView
    android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:text="USER"
    android:textColor="#fff"
   android:textStyle="bold"
   android:fontFamily="sans-serif-black"
   android:textSize="26dp"
   android:layout below="@id/hello"
   android:layout marginTop="10dp"/>
<Button
   android:layout width="70dp"
   android:layout height="70dp"
   android:layout alignParentRight="true"
   android:background="@drawable/profile"/>
<RelativeLayout
   android:id="@+id/r1"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:background="@drawable/search bg"
   android:layout_marginTop="100dp">
    <ImageView</pre>
        android:layout width="20dp"
        android:layout_height="20dp"
        android:src="@drawable/search img"
        android:layout_alignParentLeft="true"
        android:layout centerVertical="true"
        android:layout_marginLeft="20dp"/>
```

```
<TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="Search"
            android:layout marginLeft="55dp"
            android:layout centerVertical="true"
            android:textSize="18dp"
            android:textColor="#03082b"/>
        <ImageView</pre>
            android:layout width="20dp"
            android:layout height="20dp"
            android:src="@drawable/arrow bottom"
            android:layout_alignParentRight="true"
            android:layout centerVertical="true"
            android:layout_marginRight="20dp"/>
    </RelativeLayout>
</RelativeLayout>
<LinearLayout</pre>
    android:layout width="match parent"
       android:layout height="wrap content"
    android:orientation="horizontal">
    <RelativeLayout
        android:layout width="wrap content"
        android:layout_height="wrap_content">
        <ImageView</pre>
            android:id="@+id/backend"
            android:layout_width="200dp"
            android:layout height="300dp"
            android:src="@drawable/backend"
            android:layout marginLeft="5dp"/>
```

```
<TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Backend"
        android:textSize="25dp"
        android:textColor="#d703082b"
        android:textStyle="bold"
        android:layout marginLeft="40dp"
        android:layout marginTop="40dp"/>
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="12 Courses"
        android:textSize="14dp"
        android:textColor="#ab03082b"
        android:textStyle="bold"
        android:layout_marginLeft="40dp"
        android:layout marginTop="70dp"/>
</RelativeLayout>
<RelativeLayout
    android:layout width="wrap content"
    android:layout_height="wrap_content">
    <ImageView</pre>
        android:id="@+id/frontend"
        android:layout_width="200dp"
        android:layout height="300dp"
        android:src="@drawable/frontend"/>
   <TextView
        android:layout_width="wrap_content"
```

```
android:layout height="wrap content"
            android:text="Frontend"
            android:textSize="25dp"
            android:textColor="#d703082b"
            android:textStyle="bold"
            android:layout_marginLeft="35dp"
            android:layout marginTop="40dp"/>
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:text="17 Courses"
            android:textSize="14dp"
            android:textColor="#ab03082b"
            android:textStyle="bold"
            android:layout_marginLeft="35dp"
            android:layout marginTop="70dp"/>
    </RelativeLayout>
</LinearLayout>
<RelativeLayout
   android:layout_width="match_parent"
    android:layout height="wrap content">
    <TextView
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:text="Courses List (3)"
        android:textColor="#03082b"
        android:textStyle="bold"
        android:textSize="20dp"
        android:layout_marginLeft="23dp"/>
```

```
<ImageView</pre>
        android:id="@+id/img213456"
        android:layout width="40dp"
        android:layout height="40dp"
        android:background="#78F137"
        android:src="@drawable/ic baseline navigate next 24"
        android:layout alignParentRight="true"
        android:layout centerVertical="true"
        android:layout marginRight="20dp"/>
</RelativeLayout>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <ImageView</pre>
        android:id="@+id/javascript"
        android:layout width="380dp"
        android:layout_height="80dp"
        android:background="@drawable/cv4"
        android:layout_marginRight="20dp"
        android:layout_marginLeft="18dp"
        android:layout marginTop="10dp"/>
    <ImageView</pre>
        android:layout width="50dp"
        android:layout_height="50dp"
        android:src="@drawable/c4"
        android:layout marginLeft="35dp"
        android:layout centerVertical="true"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="JavaScript"
```

```
android:textSize="20dp"
        android:textStyle="bold"
        android:textColor="#d703082b"
        android:layout marginLeft="105dp"
        android:layout marginTop="20dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="4 Hours, 20 Minutes"
        android:textSize="14dp"
        android:textStyle="bold"
        android:textColor="#6003082b"
        android:layout marginLeft="105dp"
        android:layout marginTop="50dp"/>
</RelativeLayout>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:layout_marginTop="3dp">
    <ImageView</pre>
        android:id="@+id/design"
        android:layout_width="380dp"
        android:layout height="80dp"
        android:background="@drawable/cv2"
        android:layout_marginRight="20dp"
        android:layout marginLeft="18dp" />
 <ImageView</pre>
        android:layout_width="50dp"
        android:layout_height="50dp"
        android:src="@drawable/c2"
```

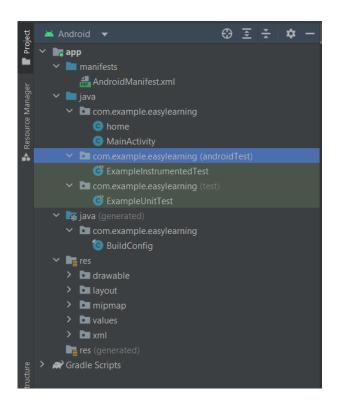
```
android:layout marginLeft="35dp"
            android:layout centerVertical="true"/>
        <TextView
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:text="Responsive Design"
            android:textSize="20dp"
            android:textStyle="bold"
            android:textColor="#d703082b"
            android:layout marginLeft="105dp"
            android:layout marginTop="10dp"/>
        <TextView
            android:layout_width="wrap_content"
            android:layout height="wrap content"
            android:text="4 Hours, 20 Minutes"
            android:textSize="14dp"
            android:textStyle="bold"
            android:textColor="#6003082b"
            android:layout_marginLeft="105dp"
            android:layout_marginTop="40dp"/>
    </RelativeLayout>
</LinearLayout>
```

• MainActivity.java

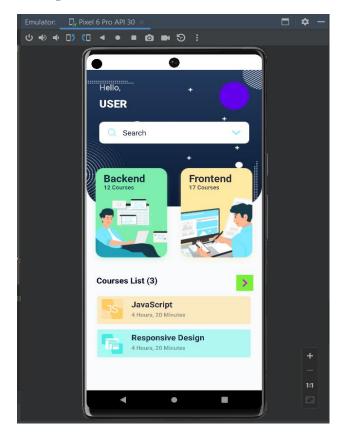
```
package com.example.easylearning;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
private ImageView imageView, backend, frontend, javascript,
design;
   @SuppressLint("MissingInflatedId")
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
   backend=findViewById(R.id.backend);
   frontend=findViewById(R.id.frontend);
   javascript=findViewById(R.id.javascript);
   design=findViewById(R.id.design);
    imageView=findViewById(R.id.img213456);
    imageView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            openhome();
        }
    });
    backend.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
```

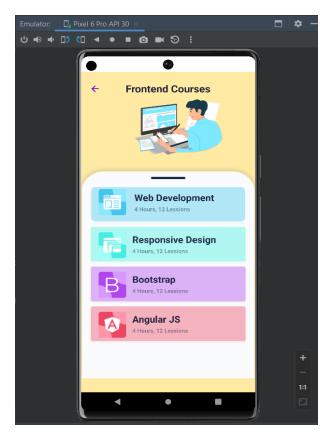
```
Toast.makeText(MainActivity.this, "12 Courses
Available", Toast.LENGTH SHORT).show();
        }
    });
    frontend.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "17 Courses
Available", Toast.LENGTH SHORT).show();
        }
    });
    javascript.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "Course Duration 260
Minutes", Toast.LENGTH SHORT).show();
        }
    });
    design.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(MainActivity.this, "Course Duration 260
Minutes", Toast.LENGTH SHORT).show();
        }
    });
    }
    public void openhome(){
        Intent intent = new Intent(this, home.class);
        startActivity(intent);
    }
}
```

Project Files –



• Output on Emulator –





Conclusion: Thus we studied the implementation of Easy GUI in Android Studio.