Instructions: VIT-AP UNIVERSITY, ANDHRA PRADESH

Lab Sheet 5: Animation and FABs

Academic year: 2022-2023

Branch/ Class: B.Tech

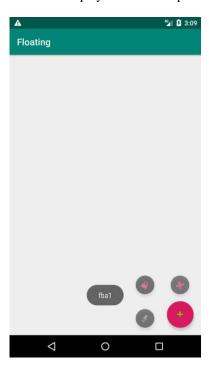
Semester: Fall

Date: 12-10-2022

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1.Design a Floating action button demo. Initially only the pink button should display when the pink button is click the rest of the three buttons should be displayed. When each button is clicked then taost message should be displayed. When the pink button is pressed again the three buttons should hide.



Code:

MainActivity.java:

```
package com.example.floating;
import static com.example.floating.R.id.fab1;
import static com.example.floating.R.id.fab2;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.Toast;
import
com.google.android.material.floatingactionbutton.FloatingActionButton;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final boolean[] flag = {false};
```

```
FloatingActionButton fab1 = (FloatingActionButton)
AnimationUtils.loadAnimation(getApplicationContext(), R.anim.hide);
                        Toast.LENGTH SHORT).show();
            public void onClick(View v) {
        fab4.setOnClickListener(new View.OnClickListener() {
                Toast.makeText(getApplicationContext(), "fba4",
```

activitymain.xml:

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

```
<com.google.android.material.floatingactionbutton.FloatingActionButton</pre>
    app:srcCompat="@android:drawable/ic delete" />
<com.google.android.material.floatingactionbutton.FloatingActionButton</pre>
```

Hide.xml:

```
</set>
```

Show.xml:

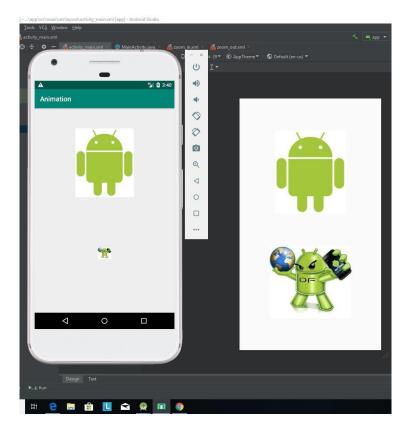
```
/set>
```

Output:





2. Design an App to scale one image big and one image small and vice versa.



Code: MainActivity.java

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    fab.setOnClickListener(new View.OnClickListener() {
```

activity_main.xml

Gradle

```
plugins {
    id 'com.android.application'
}
android {
    compileSdk 32

    defaultConfig {
        applicationId "com.example.floatingactionbuttonanimation"
        minSdk 21
        targetSdk 32
        versionCode 1
        versionName "1.0"

        testInstrumentationRunner 'androidx.test.runner.AndroidJUnitRunner'
}
buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        }
        compileOptions {
            sourceCompatibility JavaVersion.VERSION_1 8
            targetCompatibility JavaVersion.VERSION_1_8
        }
}
dependencies {
    implementation 'androidx.appcompat:appcompat:1.0.0'
    implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
```

```
implementation 'com.google.android.material:material:1.0.0'
implementation 'com.google.android.material:material:1.3.0-alpha02'
testImplementation 'junit:junit:4.13.2'
androidTestImplementation 'androidx.test.ext:junit:1.1.1'
androidTestImplementation 'androidx.test.espresso:espresso-core:3.1.0'
}
```

zoom in.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
<scale
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration = "5000"
    android:fromXScale="0"
    android:fromYScale="0"
    android:pivotX="50%"
    android:pivotY="50%"
    android:toXScale="1"
    android:toYScale="1"
    />
</set>
```

zoom_out.xml

Output:

