**In MainActivity.java add**

ImageView imageView;

Button button;

private static final int PICK\_IMAGE = 100;

Uri imageUri;

@Override

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

imageView = (ImageView)findViewById(R.id.imageView);

button = (Button)findViewById(R.id.buttonLoadPicture);

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

openGallery();

}

});

}

private void openGallery() {

Intent gallery = new Intent(Intent.ACTION\_PICK, MediaStore.Images.Media.INTERNAL\_CONTENT\_URI);

startActivityForResult(gallery, PICK\_IMAGE);

}

@Override

protected void onActivityResult(int requestCode, int resultCode, Intent data){

super.onActivityResult(requestCode, resultCode, data);

if (resultCode == RESULT\_OK && requestCode == PICK\_IMAGE){

imageUri = data.getData();

imageView.setImageURI(imageUri);

}

}

}

**In activity\_main.xml replace all code for**

<?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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Entree"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.287" />

<Button

android:id="@+id/buttonLoadPicture"

android:layout\_width="99dp"

android:layout\_height="66dp"

android:layout\_marginStart="2dp"

android:layout\_marginLeft="2dp"

android:layout\_marginTop="656dp"

android:layout\_marginEnd="295dp"

android:layout\_marginRight="295dp"

android:layout\_marginBottom="6dp"

android:onClick="cameraButton"

android:text="Photo Select"

app:backgroundTint="#ED4F4F"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.133"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="1.0" />

<Button

android:id="@+id/button2"

android:layout\_width="131dp"

android:layout\_height="69dp"

android:layout\_marginTop="657dp"

android:layout\_marginEnd="163dp"

android:layout\_marginRight="163dp"

android:layout\_marginBottom="5dp"

android:onClick="ingredientClick"

android:text="Ingredient List"

app:backgroundTint="#8BC34A"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toEndOf="@+id/buttonLoadPicture"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.0" />

<Button

android:id="@+id/button3"

android:layout\_width="95dp"

android:layout\_height="70dp"

android:layout\_marginTop="657dp"

android:layout\_marginEnd="67dp"

android:layout\_marginRight="67dp"

android:layout\_marginBottom="4dp"

android:onClick="extraOnClick"

android:text="Extra Info"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toEndOf="@+id/button2"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.0" />

<Button

android:id="@+id/button4"

android:layout\_width="85dp"

android:layout\_height="68dp"

android:layout\_marginStart="328dp"

android:layout\_marginLeft="328dp"

android:layout\_marginTop="659dp"

android:layout\_marginBottom="4dp"

android:onClick="settingsOnClick"

android:text="Settings"

app:backgroundTint="#03A9F4"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<ImageView

android:id="@+id/imageView"

android:layout\_width="381dp"

android:layout\_height="381dp"

android:layout\_marginStart="20dp"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="22dp"

android:layout\_marginEnd="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginBottom="30dp"

app:layout\_constraintBottom\_toTopOf="@+id/button2"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

**In AndroidManifest.xml replace code with**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android" package="com.example.entree">

<uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Entree">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>