**Graphical user interface, website

Description automatically generatedA picture containing text

Description automatically generatedChart

Description automatically generatedApp working screenshot**

**Qr code

Description automatically generated**

**Activitry\_main.xml code**

*<?***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/tvHeading"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="QR Code Scanner"  
 android:textAlignment="center"  
 android:textAppearance="@style/TextAppearance.AppCompat.Display1"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.177"** />  
  
 <**EditText  
 android:id="@+id/etName"  
 android:layout\_width="260dp"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Name"  
 android:inputType="none"  
 android:focusable="false"  
 app:layout\_constraintBottom\_toTopOf="@+id/etAddress"  
 app:layout\_constraintEnd\_toEndOf="@+id/etAddress"  
 app:layout\_constraintStart\_toStartOf="@+id/etAddress"  
 app:layout\_constraintTop\_toBottomOf="@+id/tvHeading"** />  
  
 <**EditText  
 android:id="@+id/etAddress"  
 android:layout\_width="260dp"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Address"  
 android:inputType="none"  
 android:focusable="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/etName"** />  
  
 <**Button  
 android:id="@+id/btnScan"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="61dp"  
 android:onClick="doScan"  
 android:text="Scan QR Code"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="@+id/etAddress"  
 app:layout\_constraintStart\_toStartOf="@+id/etAddress"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**MainActivity.java code**

**package** jamie.itsligo.qrcodeapp;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.DialogInterface;  
**import** android.content.DialogInterface.OnClickListener;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** com.google.zxing.integration.android.IntentIntegrator;  
**import** com.google.zxing.integration.android.IntentResult;  
  
**import** org.json.JSONException;  
**import** org.json.JSONObject;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private** EditText **etName**, **etAddress**;  
 **private** IntentIntegrator **qrScan** = **new** IntentIntegrator(**this**); *// ZXing lib linker  
// note the imports should be added by AS automatically* @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **etName** = findViewById(R.id.***etName***);  
 **etAddress** = findViewById(R.id.***etAddress***);  
  
 }  
  
 **public void** doScan(View view) {  
  
 **qrScan**.initiateScan(); *//start to scan* }  
  
 @Override  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 IntentResult result = IntentIntegrator.*parseActivityResult*(requestCode, resultCode,  
 data);  
 **if** (result != **null**) {  
 *//if qrcode has nothing in it* **if** (result.getContents() == **null**) {  
 Toast.*makeText*(**this**, **"Result Not Found"**, Toast.***LENGTH\_LONG***).show();  
 } **else** {  
 *//if qr contains data* **try** {  
 *//converting the data to json* JSONObject obj = **new** JSONObject(result.getContents());  
 *//setting values to textviews* **etName**.setText(obj.getString(**"title"**));  
 **etAddress**.setText(obj.getString(**"website"**));  
 } **catch** (JSONException e) {  
 e.printStackTrace();  
 *//if control comes here  
 //that means the encoded format not matches  
 //in this case you can display whatever data is available on the qrcode  
 //to a toast* Toast.*makeText*(**this**, result.getContents(), Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 } **else** {  
 **super**.onActivityResult(requestCode, resultCode, data);  
 }  
  
 **etAddress**.setOnClickListener(**new** View.OnClickListener() {  
  
 @Override  
 **public void** onClick(View v) {  
 String link = **etAddress**.getText().toString();  
  
 Intent browserIntent = **new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(link));  
 startActivity(browserIntent);  
  
 }  
 });  
  
 **etName**.setOnClickListener(**new** View.OnClickListener() {  
  
 @Override  
 **public void** onClick(View v) {  
 String link = **etAddress**.getText().toString();  
  
 Intent browserIntent = **new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(link));  
 startActivity(browserIntent);  
  
 }  
 });  
  
  
 }  
}

**Conclusion**

**• State if you completed the lab or how far you managed to get**

I completed the lab in full.

**• State the part of the lab you spent the most time on or what issue was the hardest to overcome**

The area of the lab I spent the most time on was the Bonus part. I got it working easily enough with some research online about using click on a EditText. However, when I clicked on the EditText to bring me to the link it would spring up the keyboard and another click would be necessary to actually get the jump to the browser with the website showing. This bugged me and I had to fix it. So, I spent awhile figuring out how to make the keyboard not display on a click to the EditText. Eventually got it, it was in the activity.main.xml code. It is listed below.

**android:inputType="none"  
android:focusable="false"**

**• Specify a goal for yourself for next time**

A goal for myself now would be to get the QR Code scanner to work from my webcam. I have an android phone so it is not 100% necessary, but I feel like it would be nice to have and nice to have working in case I ever needed it.