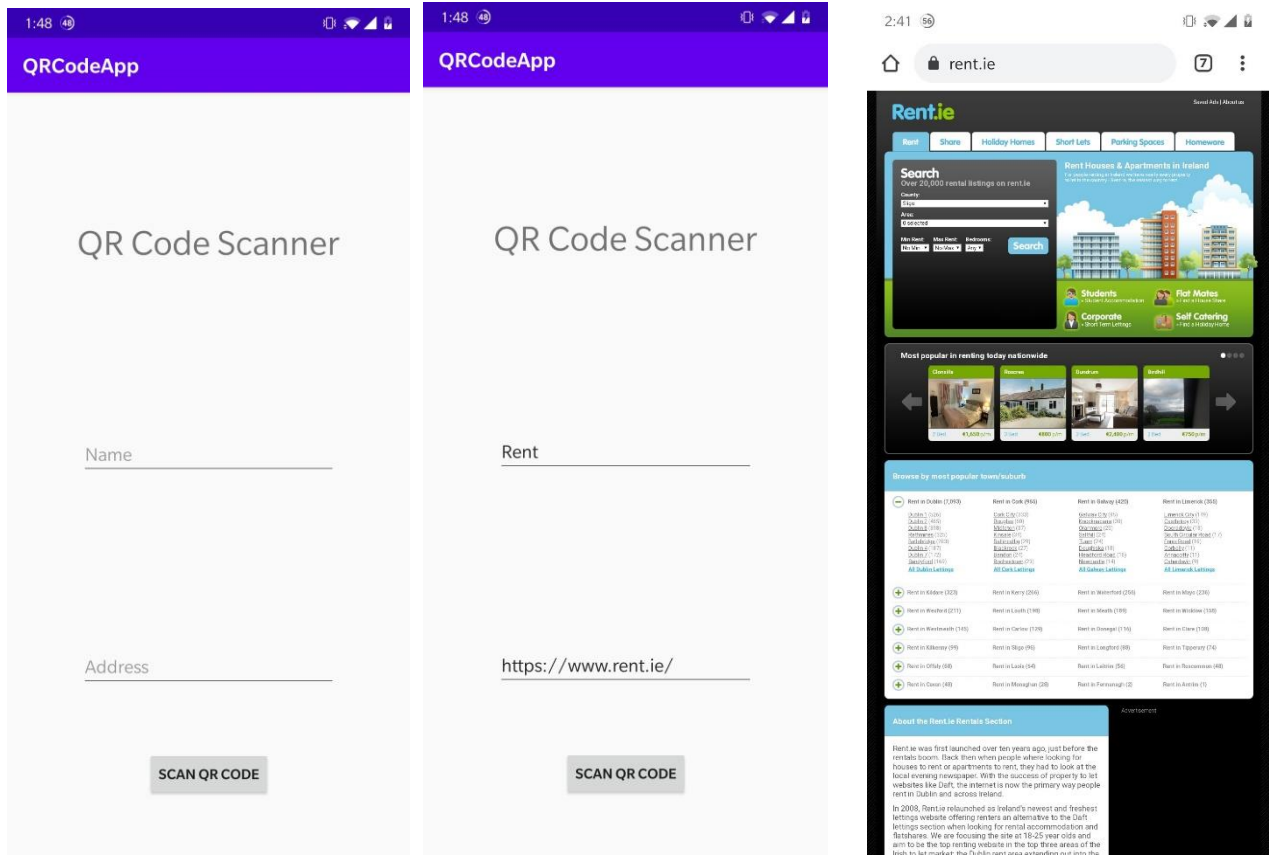


App working screenshot



Activity_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.itslago.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.