1.Google App Script Part

Step 1: Create new app script project. Click here to create App Script.

Step 2: Copy and paste the below script which recieves scanned data and inserts in Google Sheet.

```
function doGet(e){
var ss =
SpreadsheetApp.openByUrl("https://docs.google.com/spreadsheets/d/10kS1NUmvjlG4keZSQXdLB5ZB
4ZY27Ae0mYfgThIPr6c/edit#gid=0");
var sheet = ss.getSheetByName("Sheet1");
return insert(e,sheet);
}
function doPost(e){
var ss =
SpreadsheetApp.openByUrl("https://docs.google.com/spreadsheets/d/10kS1NUmvjlG4keZSQXdLB5ZB
4ZY27Ae0mYfgThIPr6c/edit#gid=0");
 var sheet = ss.getSheetByName("Sheet1");
return insert(e,sheet);
}
function insert(e,sheet) {
 var scannedData = e.parameter.sdata;
var d = new Date();
var ctime = d.toLocaleString();
 sheet.appendRow([scannedData,ctime]);
 return ContentService
 .createTextOutput("Success")
 .setMimeType(ContentService.MimeType.JAVASCRIPT);
}
```

Step 3: Change the url of the spread sheet. Make sure sheet is shared .[anyone with the link can view]

Step 4: Go to Publish -> Deploy as web app. A window pop up, here -> Who has access to the app: -> Anyone, even Anonymous

Publish/Update. Copy the published URL and store it.

2. Android Part

Step 1: Create new Android App from Android Studio

Step 2: Go to build.gradle[module: app] and add following dependencies.

note: If you are downloading the source code and modifying. Please make sure build tool version and compileSdk Version in build.gradle[module: dependancyapp] are compatible with your phone. If you are developing from the scratch then no issues, just dependency,

```
compile 'com.google.zxing:core:3.3.0'
compile 'com.journeyapps:zxing-android-embedded:3.4.0'
```

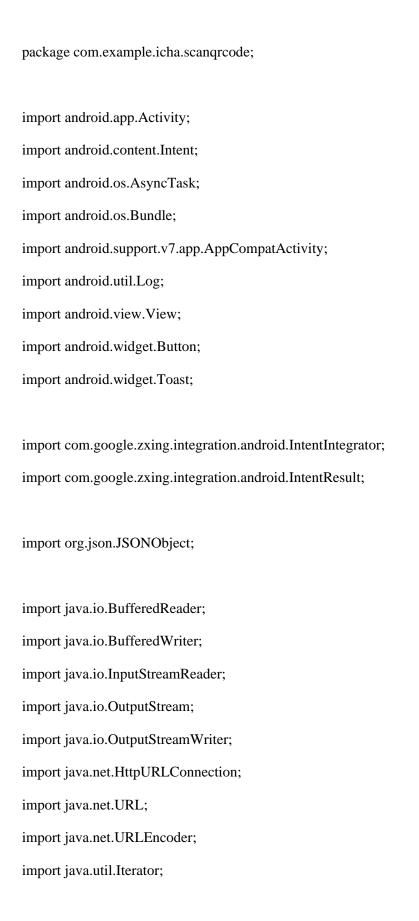
Step 3: Let's add all layout files.

activity_main.xml This adds a button to Scan

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:paddingBottom="@dimen/activity_vertical_margin"</pre>
```

```
and roid: padding Left = "@dimen/activity\_horizontal\_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="QR SCAN TO GSHEET"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:id="@+id/textView"/>
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SCAN"
    android:id="@+id/scan_btn"
    android:layout_below="@+id/textView"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="80dp" />
</RelativeLayout>
```

Step 4: add the following code to MainActivity.java which scans and calls web service



```
import javax.net.ssl.HttpsURLConnection;
public class MainActivity extends AppCompatActivity {
  String scannedData;
  Button scanBtn;
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    final Activity activity =this;
    scanBtn = (Button)findViewById(R.id.scan_btn);
    scanBtn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         IntentIntegrator integrator = new IntentIntegrator(activity);
         integrator. set Desired Barcode Formats (Intent Integrator. QR\_CODE\_TYPES);
         integrator.setPrompt("Scan");
         integrator.setBeepEnabled(false);
         integrator.setCameraId(0);
         integrator. set Barcode Image Enabled (false);\\
         integrator.initiateScan();
       }
```

```
});
}
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
  IntentResult\ result = IntentIntegrator.parseActivityResult(requestCode, resultCode, data);
  if(result!=null) {
     scannedData = result.getContents();
     if (scannedData != null) {
       // Here we need to handle scanned data...
       new SendRequest().execute();
     }else {
     }
  }
  super.onActivityResult(requestCode, resultCode, data);
}
public class SendRequest extends AsyncTask<String, Void, String> {
```

```
protected void onPreExecute(){}
    protected String doInBackground(String... arg0) {
      try{
         //Enter script URL Here
         URL url = new URL("https://script.google.com/macros/s/AKfycbygE7-
jB0SUNaAVdWKk1hJLUEGO518LiELQflSAFufO5hXRoh8/exec");
         JSONObject postDataParams = new JSONObject();
         //int i;
         //for(i=1;i<=70;i++)
         // String usn = Integer.toString(i);
         //Passing scanned code as parameter
         postDataParams.put("sdata",scannedData);
         Log.e("params",postDataParams.toString());
         HttpURLConnection conn = (HttpURLConnection) url.openConnection();
         conn.setReadTimeout(15000 /* milliseconds */);
```

```
conn.setConnectTimeout(15000 /* milliseconds */);
conn.setRequestMethod("GET");
conn.setDoInput(true);
conn.setDoOutput(true);
OutputStream os = conn.getOutputStream();
BufferedWriter writer = new BufferedWriter(
    new OutputStreamWriter(os, "UTF-8"));
writer.write(getPostDataString(postDataParams));
writer.flush();
writer.close();
os.close();
int responseCode=conn.getResponseCode();
if (responseCode == HttpsURLConnection.HTTP_OK) {
  BufferedReader in=new BufferedReader(new InputStreamReader(conn.getInputStream()));
  StringBuffer sb = new StringBuffer("");
  String line="";
  while((line = in.readLine()) != null) {
    sb.append(line);
    break;
```

```
}
         in.close();
         return sb.toString();
       }
       else {
         return new String("false : "+responseCode);
     }
    catch(Exception e){
       return new String("Exception: " + e.getMessage());
     }
  }
  @Override
  protected void onPostExecute(String result) {
    Toast.makeText(getApplicationContext(), result,
         Toast.LENGTH_LONG).show();
  }
public String getPostDataString(JSONObject params) throws Exception {
  StringBuilder result = new StringBuilder();
```

}

```
boolean first = true;
    Iterator<String> itr = params.keys();
    while(itr.hasNext()){
       String key= itr.next();
       Object value = params.get(key);
       if (first)
         first = false;
       else
         result.append("&");
      result.append(URLEncoder.encode(key, "UTF-8"));
       result.append("=");
       result.append(URLEncoder.encode(value.toString(), "UTF-8"));
    }
    return result.toString();
  }
}
```

Step 5: Add web App URL from script and pass the parameter as defined in script in above MainActivity.java

```
try{

//Enter script URL Here

URL url = new URL("Your Script web app URL");

JSONObject postDataParams = new JSONObject();

//Passing scanned code as parameter

postDataParams.put("sdata",scannedData);
```

Step 6: Add Internet Permission in manifest file

```
</activity>
</application>
</manifest>
```