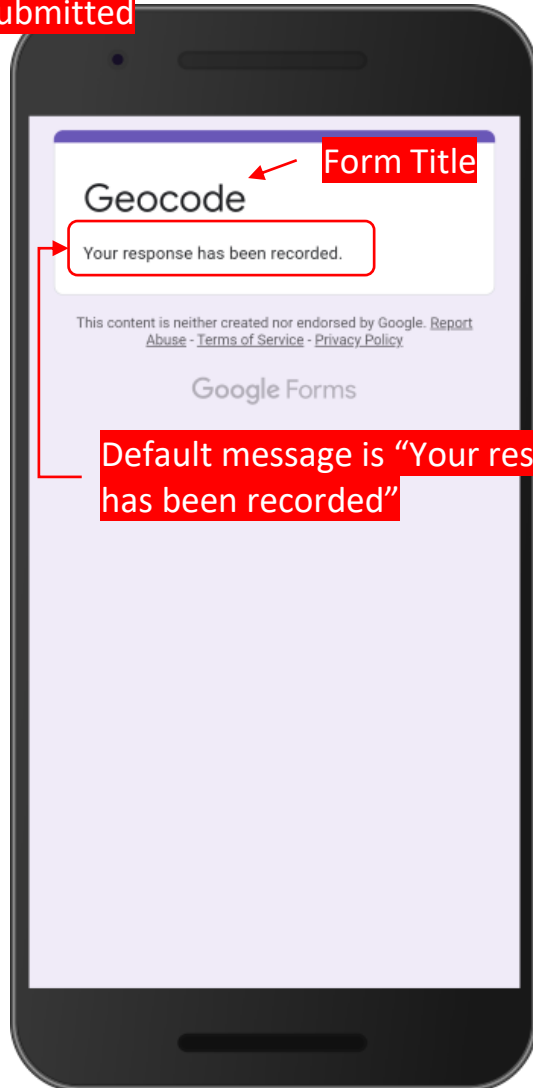# How to Add Geo Code to Google Forms

Add Info on Latitude, Longitude and Address (Street Name and Number, City, State, ZIP Code, Country) of a Device submitting Google Forms
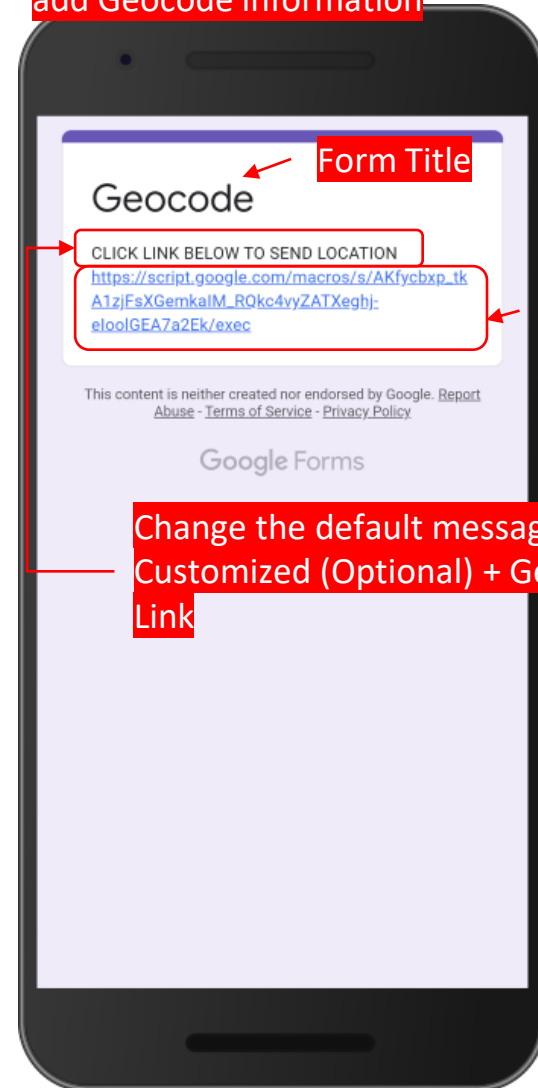
April 2024

maxi

Google Form Submit Confirmation Message

Confirmation page is displayed after form is submitted

Link in Confirmation Message to add Geocode information

Form Title

Geocode

Your response has been recorded.

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Google Forms

Default message is "Your response has been recorded"

Form Title

Geocode

CLICK LINK BELOW TO SEND LOCATION

https://script.google.com/macros/s/AKfycbxp_tk A1zjFsXGemkaIM_RQkc4vyZATXeghj- eIooIGEA7a2Ek/exec

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Google Forms

Click the link to add Geocode

Change the default message to Customized (Optional) + Geocode Link
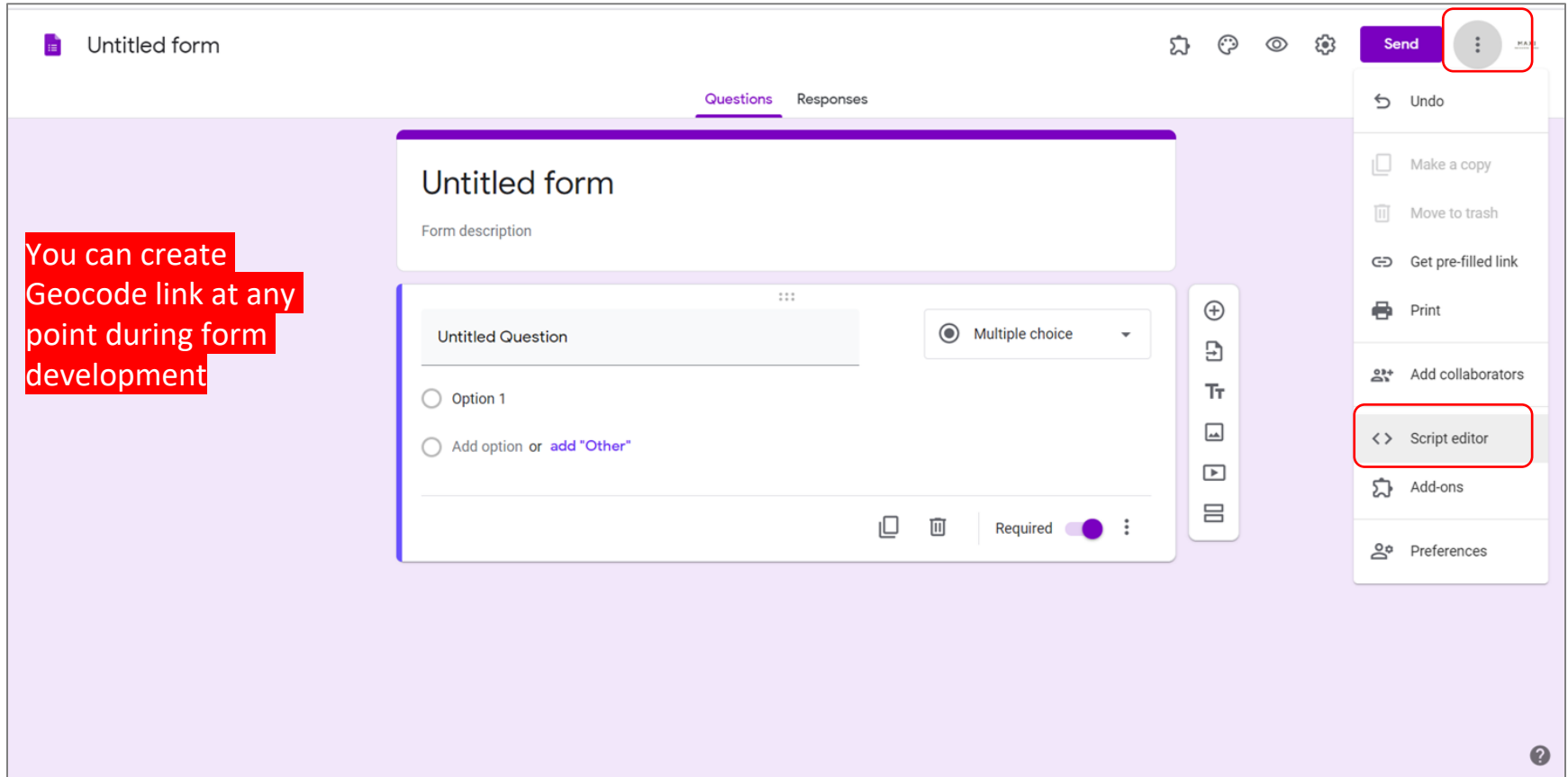
Geocode for Google Forms

- Geocode information of the device submitting Google Forms can be added to your Google Forms response data spreadsheet. As is Google Form, the Geocode information is free.

- By clicking the Geocode link, the response data spreadsheet will have the following three additional columns

3 Columns will be added to original form responses data columns

Timestamp	Location	GeoStamp	GeoCode	GeoAddress
5/17/2018 23:11:44	Yes	05/17/2018 23:11:49	-6.2576675999999996,106.8533283	Jl. Rawajati Barat III No.7A, Rawajati, Pancoran, Kota Jakarta Selatan, Daerah Khusus Ibukota Jakarta 12750, Indonesia
5/17/2018 23:18:32	Yes	05/17/2018 23:18:37	37.747464105958976,-122.4184396093321	3119 Mission St, San Francisco, CA 94110, USA
5/17/2018 23:21:02	Yes	05/17/2018 23:21:07	-6.8971377,107.6165972	Jl. H. Wasid No.23, Lebakgede, Coblong, Kota Bandung, Jawa Barat 40132, Indonesia

1. GeoStamp = Time when Geocode link is clicked

2. Latitude and Longitude

3. Address : Street name and number, city, state, zip code and country

1. Go to Script Editor

- In your Google Form form, go to Script editor

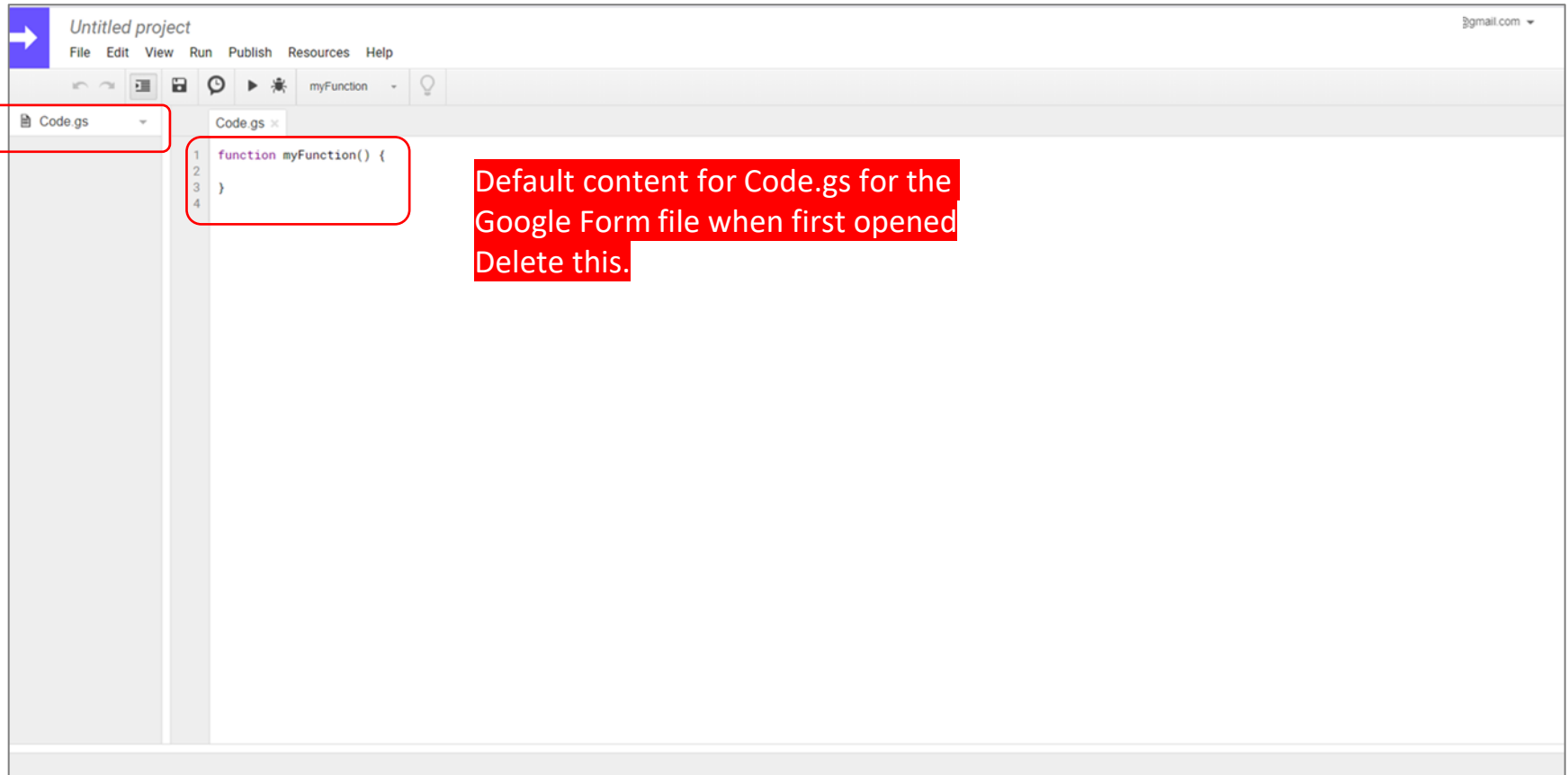- Script editor is only available when you open Google Form from Laptop/PC

You can create Geocode link at any point during form development

- Once opened, the script editor already has Code.gs

Default content for Code.gs for the Google Form file when first opened Delete this.

How to Create Geocode Link
3. Copy and Paste script to Code.gs

- Geocode full script available in Appendix

- Copy the script on Code.gs part in the Appendix and paste them to your Code.gs.

- Create html file and name it Index

In File > New > Html file
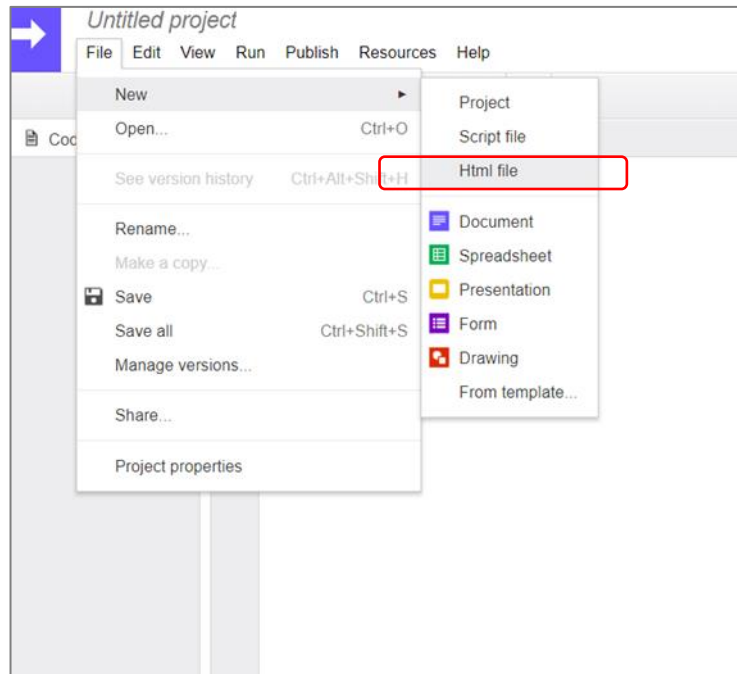
Create File > Enter new file name 🡪 Index
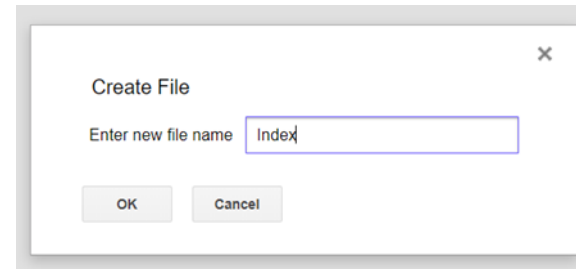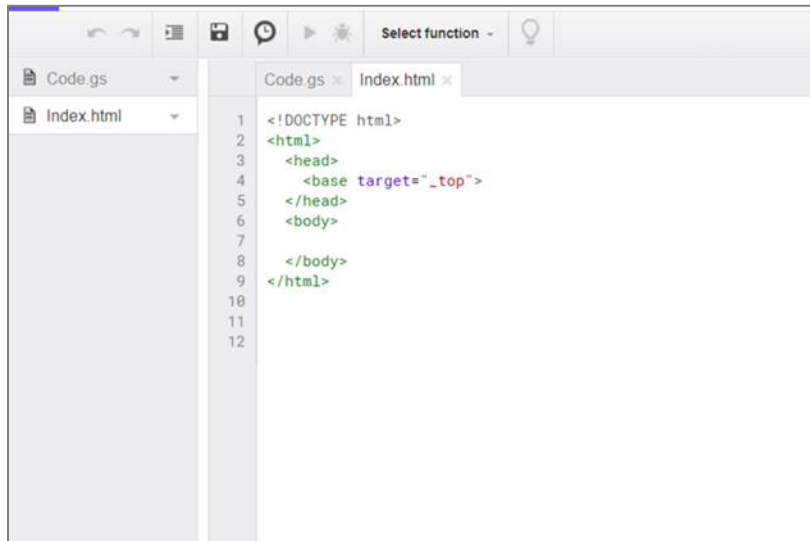
How to Create Geocode Link
5. Copy and Paste script to Index.html
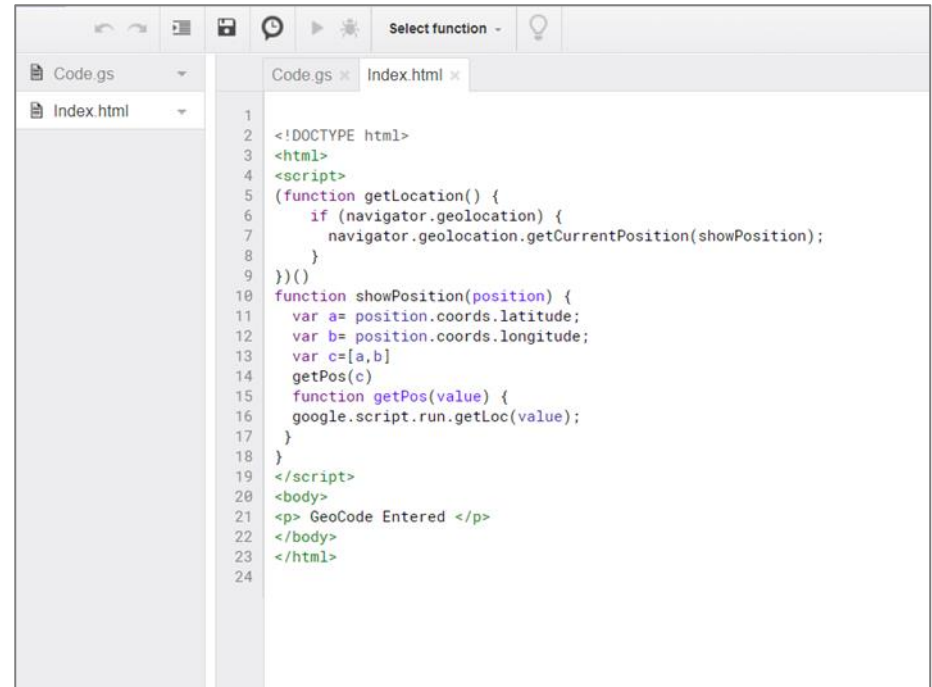
- Copy script for Index.html from Appendix

First delete default script in Index.html

Copy the script. Paste it.
Now Index.html will look like this


```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <base target="_top">
5    </head>
6    <body>
7
8    </body>
9  </html>
```



```
1
2  <!DOCTYPE html>
3  <html>
4  <script>
5  (function getLocation() {
6      if (navigator.geolocation) {
7          navigator.geolocation.getCurrentPosition(showPosition);
8      }
9  })()
10 function showPosition(position) {
11   var a= position.coords.latitude;
12   var b= position.coords.longitude;
13   var c=[a,b]
14   getPos(c)
15   function getPos(value) {
16   google.script.run.getLoc(value);
17  }
18 }
19 </script>
20 <body>
21 <p> GeoCode Entered </p>
22 </body>
23 </html>
24
```

Go to Publish > Deploy as web app
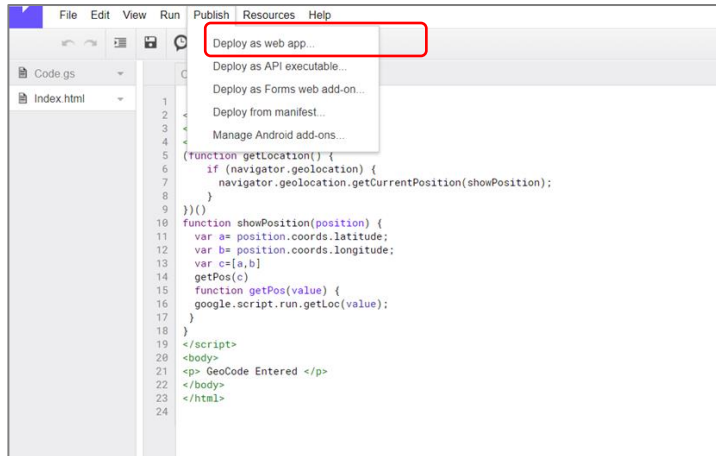
If you prefer give it a project name otherwise keep it Untitled
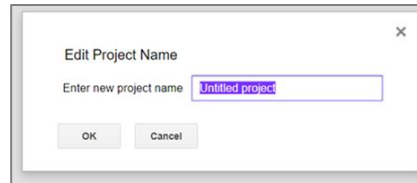
Set Who has access to Anyone, even anonymous so everyone that has the link can use the app without log in to google first.
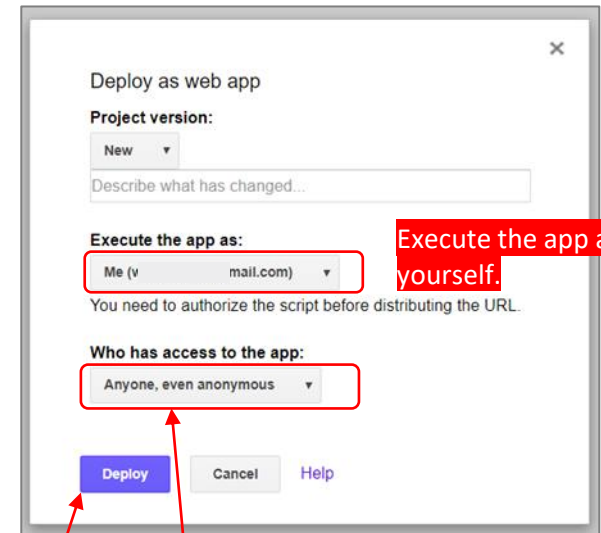
Execute the app as yourself.

Important : Access to anyone, so that everyone who has the link can use the app.

Then click Deploy.

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Deploy as web app

This project is now deployed as a web app.

Current web app URL:

https://script.google.com/macros/s/AKfycbwLHrErW6wCwNs

Test web app for your latest code.

OK
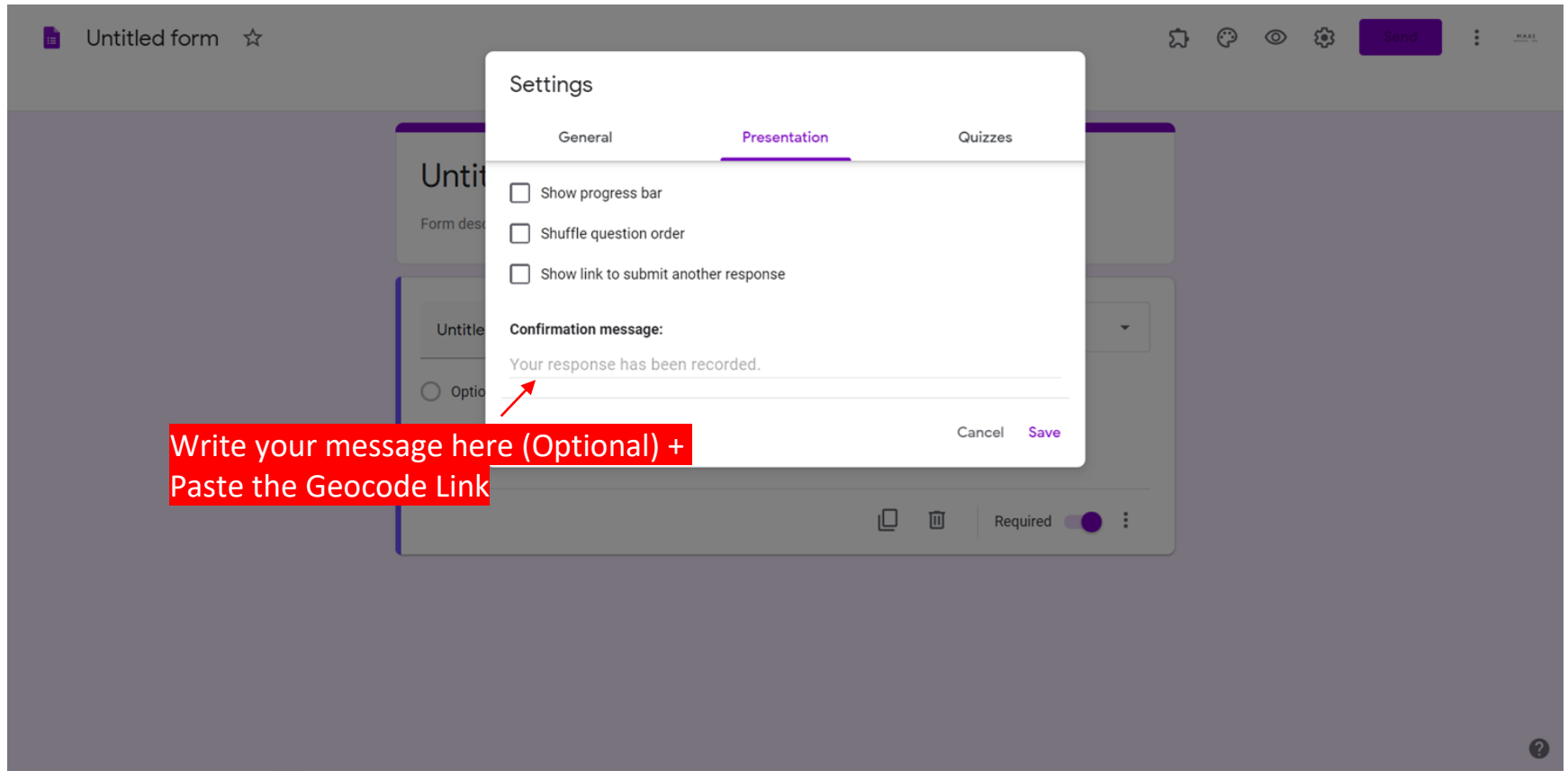
This is the Geocode link. Copy the link
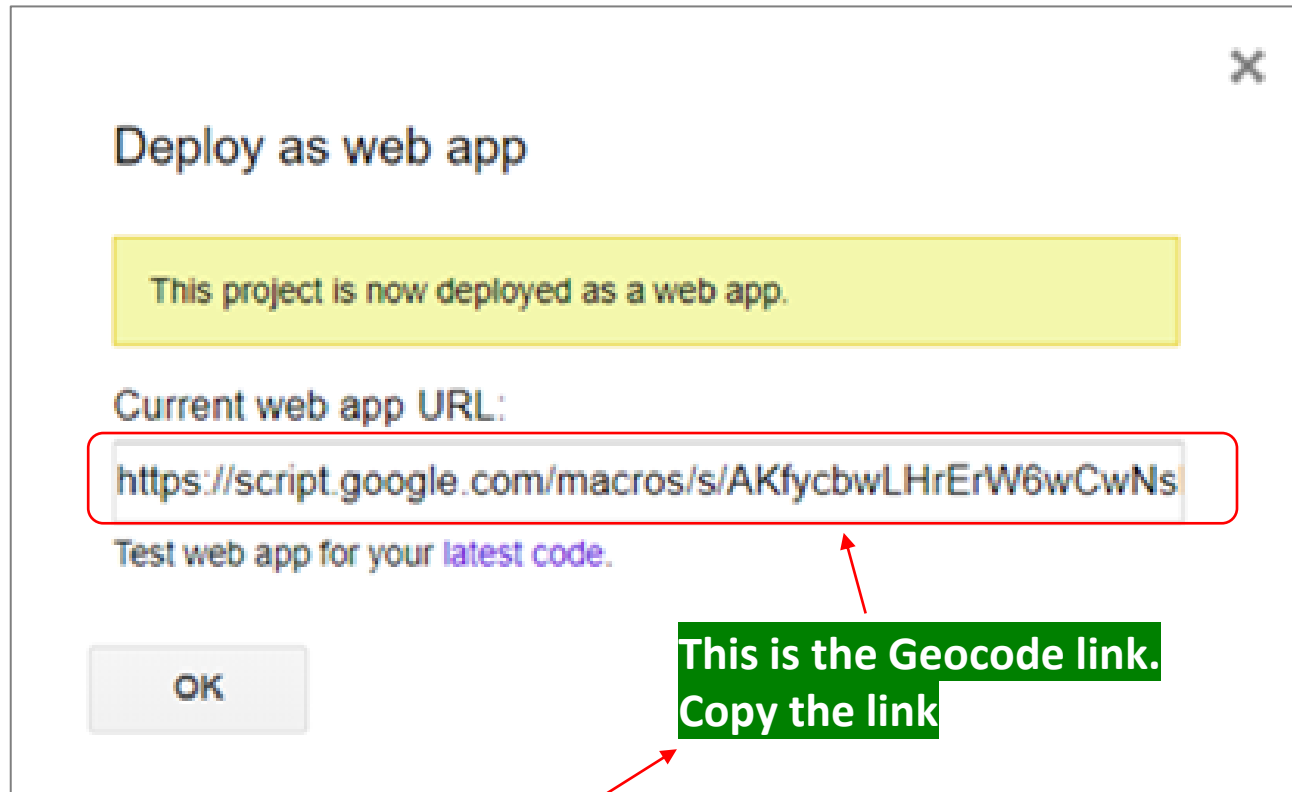
The link is 'file bound' meaning that the link is unique to this form. It will not work for other form
So for new form you will need a new link for the form, just repeat the process

Write your message here (Optional) +
Paste the Geocode Link

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Link to Responses Spreadsheet

Create spreadsheet for responses

Spreadsheet for the form is linked

maxi12

Geocode for Google Forms is now Ready

Geocode

CLICK LINK BELOW TO SEND LOCATION
https://script.google.com/macros/s/AKfycbxp_tk
A1zjFsXGemkaIM_RQkc4vyZATXeghj-
elooIGEA7a2Ek/exec

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Google Forms

Example of message + the Geocode link in confirmation message
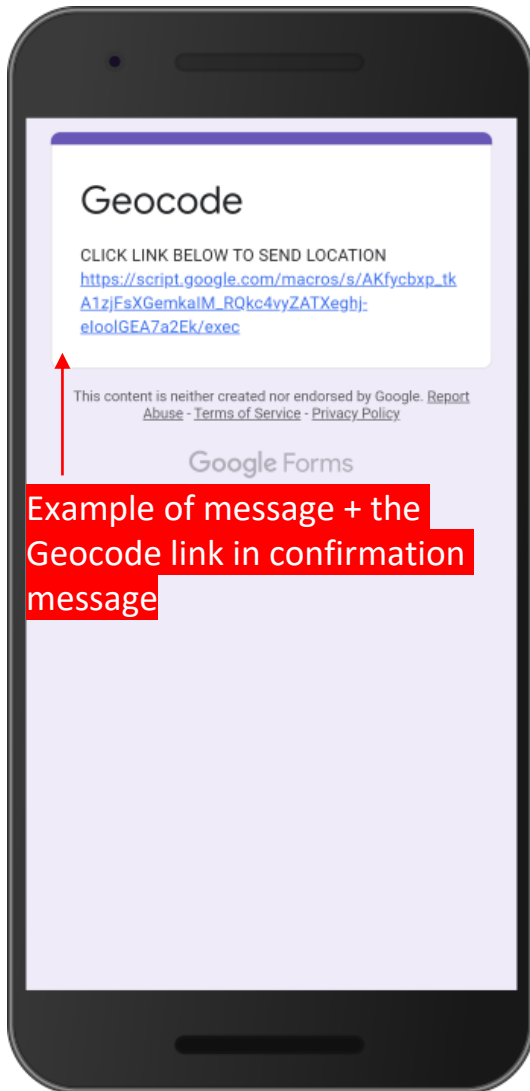
Geocode is now ready
Remember that the link is only applicable for the form where the link is created.
For other form you have to create a new different link, just repeat the process.

APPENDIX

```
function doGet() {
 return HtmlService.createHtmlOutputFromFile('Index');
}
function getLoc(value) {
 var destId = FormApp.getActiveForm().getDestinationId() ;
 var ss = SpreadsheetApp.openById(destId) ;
 var respSheet = ss.getSheets()[0]  ;
 var data = respSheet.getDataRange().getValues() ;
 var headers =  data[0]    ;
 var numColumns = headers.length ;
 var numResponses = data.length;
 var c=value[0];
 var d=value[1];
 var e=c + "," + d ;

 // the script will add device geocode data in last submit data row by clicking the link on confirmation page that shows up after hitting the submit button
 // geocode data here consists of 3 columns : time to click the link, longitude & latitude and address (using reverse geocode)
 // as long as clicking the link is done before next respondent submit button, data will be entered in the right row.
 // however particularly for the case of multiple devices that submit data at about the same time
 // then whichever device clicks the link closer to the last  submit row timestamp,
 //their geodata will be entered in the last submit data row.
 // leaving geocode column in the row above empty. In this case the geocode data will be in red font
 // If sometime later another device click the link then the geodata will be entered in closest missing geodata row. The data will also be in red font
 // Therefore for red font data you may want to check manually after completion for correct geodata entry. In the questionnaire add question about address to
 //help checking.

     if (respSheet.getRange(1,numColumns).getValue()=="GeoAddress") {


//fill data for second respondents onwards no missing geo data
// time here is Jakarta, you may need to change time to your local time (in GMT)

     if (respSheet.getRange(numResponses,numColumns-2).getValue()=="" && respSheet.getRange(numResponses-1,numColumns-2).getValue()!="" ){
     respSheet.getRange(numResponses,numColumns-2).setValue(Utilities.formatDate(new Date(), "GMT+7", "MM/dd/yyyy HH:mm:ss"));
     respSheet.getRange(numResponses,numColumns-1).setValue(e);
     var response = Maps.newGeocoder().reverseGeocode(value[0], value[1]);
     f= response.results[0].formatted_address;
     respSheet.getRange(numResponses,numColumns).setValue(f);
     }

//fill data with previous geo data missing. red font

     else if (respSheet.getRange(numResponses,numColumns-2).getValue()=="" && respSheet.getRange(numResponses-1,numColumns-2).getValue()=="" ){
     respSheet.getRange(numResponses,numColumns-2).setValue(Utilities.formatDate(new Date(), "GMT+7", "MM/dd/yyyy HH:mm:ss")).setFontColor("red");
     respSheet.getRange(numResponses,numColumns-1).setValue(e).setFontColor("red");
     var response = Maps.newGeocoder().reverseGeocode(value[0], value[1]);
     f= response.results[0].formatted_address;
     respSheet.getRange(numResponses,numColumns).setValue(f).setFontColor("red");
     }
```

```
//to fill missing previous data. red font
    else if (respSheet.getRange(numResponses,numColumns-2).getValue()!=""){
        for (i = 0; i < numResponses; i++) {
    if (respSheet.getRange(numResponses-i,numColumns-2).getValue()=="") {

    respSheet.getRange(numResponses-i,numColumns-2).setValue(Utilities.formatDate(new Date(), "GMT+7", "MM/dd/yyyy HH:mm:ss")).setFontColor("red");
    respSheet.getRange(numResponses-i,numColumns-1).setValue(e).setFontColor("red");
    var response = Maps.newGeocoder().reverseGeocode(value[0], value[1]);
    f= response.results[0].formatted_address;
    respSheet.getRange(numResponses-i,numColumns).setValue(f).setFontColor("red");
    break; }
    }
    }
    }

    else if (respSheet.getRange(1,numColumns).getValue()!="GeoAddress") {
//create labels in first row
    respSheet.getRange(1,numColumns+1).setValue("GeoStamp GMT+7");
    respSheet.getRange(1,numColumns+2).setValue("GeoCode (Lat,Long)");
    respSheet.getRange(1,numColumns+3).setValue("GeoAddress");
//fill data for first respondent
    if (numResponses==2) {
    respSheet.getRange(numResponses,numColumns+1).setValue(Utilities.formatDate(new Date(), "GMT+7", "MM/dd/yyyy HH:mm:ss"));
    respSheet.getRange(numResponses,numColumns+2).setValue(e);
    var response = Maps.newGeocoder().reverseGeocode(value[0], value[1]);
    f= response.results[0].formatted_address;
    respSheet.getRange(numResponses,numColumns+3).setValue(f);
    }
    else if (numResponses > 2){
    respSheet.getRange(numResponses,numColumns+1).setValue(Utilities.formatDate(new Date(), "GMT+7", "MM/dd/yyyy HH:mm:ss")).setFontColor("red");
    respSheet.getRange(numResponses,numColumns+2).setValue(e).setFontColor("red");
    var response = Maps.newGeocoder().reverseGeocode(value[0], value[1]);
    f= response.results[0].formatted_address;
    respSheet.getRange(numResponses,numColumns+3).setValue(f).setFontColor("red");
    }
    }
    }
```

```html
<!DOCTYPE html>
<html>
<script>
(function getLocation() {
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition(showPosition);
    }
})()
function showPosition(position) {
  var a= position.coords.latitude;
  var b= position.coords.longitude;
  var c=[a,b]
  getPos(c)
  function getPos(value) {
  google.script.run.getLoc(value);
 }
}
</script>
<body>
<p> GeoCode Entered </p>
</body>
</html>
```

More Google Forms Materials

- GOOGLE FORMS TUTORIAL PART 1: CREATE ONLINE SURVEYS
    - [Download pdf here](#).
- GOOGLE FORMS TUTORIAL PART 2: CREATE ONLINE QUIZ/TEST
    - [Download pdf here](#).

THANK YOU

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