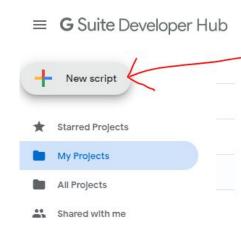
Google Script

Class Calendar App - Content Feed



Class CalendarApp - Write Google Script

Allows a script to read and update the user's Google Calendar. This class provides direct access to the user's default calendar, as well as the ability to retrieve additional calendars that the user owns or is subscribed to.

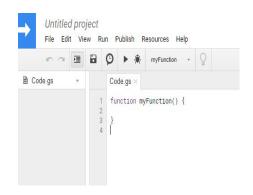
Creating Google Script - GSuite Developer Hub

https://script.google.com/home

Create Stand alone Script

Opens Default Online Editor with myFunction()

Code is JavaScript Based





Write Google Script

Open the editor for script.

Add a title for the project

Add lines of code in the default function.

Note using the suggestion tool helps save time and ensure you have the correct object to apply the method to.

Try Logger.log() to log and debug.

Select Run or Press the Icons on the shortcut menu. Select the function you want to invoke.

```
Authorization required project 1 needs your permission to access your data on Google.

Review Permissions Cancel
```

```
function myFunction() {
  var doc = DocumentApp.create('Document Name');
  Logger.log(doc.getId());
}
```

```
# Code.gs ×

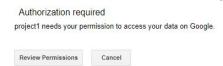
function myFunction() {
  var doc = DocumentApp.create('Document Name');
  Logger.log(doc.|
}

addBookmark(Position position) : Bookmark
  addEditor(String emailAddress) : Document
  addEditor(User user) : Document
  addEditors(String[] emailAddresses) : Document
  addFooter() : FooterSection
  addHeader() : HeaderSection
  addNamedRange(String name, Range range) : NamedRange
  addViewer(String emailAddress) : Document
```

```
Publish Resources Help

Code.gs *

function myFunction() {
  var doc = DocumentApp.create('Document Name');
  Logger.log(doc.getId());
}
```





Running the Function

Select to provide permissions in order to run the app and allow it to make changes.

Go to your drive.

My Drive -

APRIL Source

_ACTIVE_ProjectsTracker

https://drive.google.com/drive/u/0/m y-drive

You will see the new file created there, as well the google script that you just created.

me

me

```
function myFunction() {
  var doc = DocumentApp.create('Document Name');
  Logger.log(doc.getId());
This app isn't verified
This app hasn't been verified by Google yet. Only proceed if you know and trust
the developer.
                                                           ACCOUNT
                                                      gappscourses@gmail.com
Hide Advanced
                             This will allow project1 to:
Google hasn't reviewed this app yet a
apps may pose a threat to your perso
                                  View and manage your Google Docs documents
                                                                                                  (i)
                             Make sure you trust project1
                             You may be sharing sensitive info with this site or app. Learn about how project1
                             will handle your data by reviewing its terms of service and privacy policies. You
                             can always see or remove access in your Google Account.
                             Learn about the risks
         Last modified 1
                             Cancel
         Apr 19, 2019 me
         Feb 6, 2019 me
         Feb 9, 2019 me
         Apr 22, 2019 me
         10:34 AM me
```

Authorization required project1 needs your permission to access your data on Google

Review Permissions

Cancel

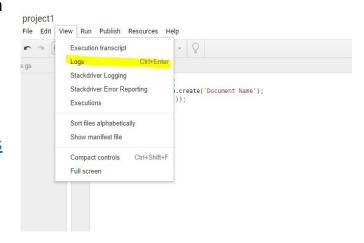
Checking Logs

Logger.log is similar to console.log in JavaScript - Logs created this way can be viewed by selecting View > Logs in the script editor. These logs are intended for simple checks during development and debugging, and do not persist very long.

https://developers.google.com/apps-s cript/guides/logging

The ID is that of the new document you just created.

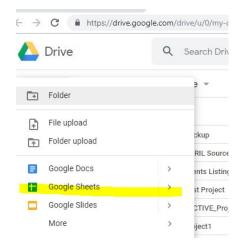
```
function myFunction() {
  var doc = DocumentApp.create('Document Name');
  Logger.log(doc.getId());
}
```





Logs

[19-06-13 07:34:34:820 PDT] 1IVXKxOT0A_VCp69cZVkGd3ZTgfXF9iA5chV41uoSmqs



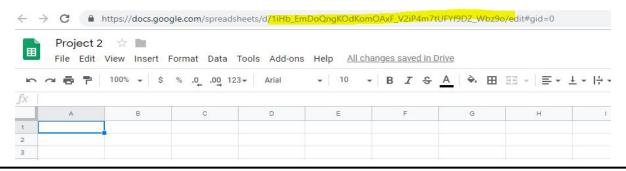
Google Script Bound Script

Container-bound Scripts - A script is bound to a Google Sheets, Docs, Slides, or Forms file if it was created from that document rather than as a standalone script. Bound scripts generally behave like standalone scripts except that they do not appear in Google Drive, they cannot be detached from the file they are bound to, and they gain a few special privileges over the parent file.

https://developers.google.com/apps-script/guides/bound

Go to your Google Drive and create a new Google Sheet.

Name it project 2 and notice the URL there is a unique ID for the file there.





Google Bound Script

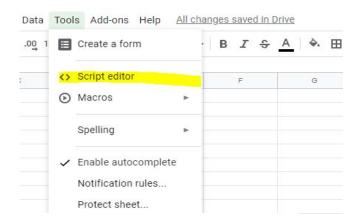
Under tools in the menu bar select **Script editor.**

This will open the cloud based editor for Google Script - same as before.

Create the code using getActiveSpreadsheet() and log the id into the Logger.

You'll notice the ID is the same as the id in the URL of the spreadsheet.

```
function myFunction() {
  var sheet =
  SpreadsheetApp.getActiveSpreadsheet();
  Logger.log(sheet.getId());
}
```



Logs

[19-06-13 10:46:22:770 EDT] 1iHb_EmDoQngKOdKomOAxF_V2iP4m7tUFYf9DZ_Wbz9o



Spreadsheet Service

This service allows scripts to create, access, and modify Google Sheets files

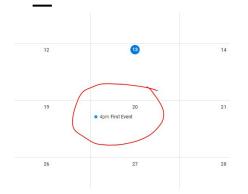
https://developers.google.com/apps-script/reference/spreadsheet/

Select the sheet you want to use.

Invoke the function with the code to appendRow using an array.

Go back into the sheet and notice the content contained there.

```
function myFunction() {
 var ss = SpreadsheetApp.getActiveSpreadsheet();
 var sheet = ss.getSheets()[0];
 sheet.appendRow(["col1", "Hello", "World"]);
              https://docs.google.com/spreadshee
       Project 2
                                 Format
                                         C
    col1
                   Hello
                                  World
```



Calendar Service

This service allows a script to access and modify the user's Google Calendar, including additional calendars that the user is subscribed to.

https://developers.google.com/apps-s cript/reference/calendar/

Invoke the new function addEvent() Allow permissions.

Check your calendar for the date the you entered in the new Date object. You will see an event there.

Logs will have the event id.

```
function addEvent(){
 var event =
CalendarApp.getDefaultCalendar().createEvent('First
Event',
 new Date('June 20, 2019 20:00:00 UTC'),
 new Date('June 20, 2019 21:00:00 UTC'));
 Logger.log('Event ID: ' + event.getId());
 Authorization required
Project 2 needs your permission to access your data on Google.
 Review Permissions
                        Cancel
 Logs
 [19-06-13 10:59:09:159 EDT] Event ID: rq5fb41hml1asblu91u8e3uvdo@google.com
```



Populate Calendar

Warning this will add random events to your calendar for the next week, we need some data to use in the calendar.

Generate random start time and end time. Create new event title. Run the script to add some events which we can use later as our feed of events.



```
function addEvents(){
 var cal = CalendarApp.getDefaultCalendar()
 for(var x=0;x<10;x++){
  var startTime = randomDate(new Date(), new
Date('June 20, 2019'));
  var endTime = new Date(startTime.getTime() +
(2*1000*60*60));
  Logger.log(startTime);
  Logger.log(endTime);
  cal.createEvent('New title'+x, startTime, endTime)
function randomDate(start, end) {
  return new Date(start.getTime() + Math.random() *
(end.getTime() - start.getTime()));
```



List Events

Create a list of events from your calendar - use a start and end date/time.

Create an array of data from the event objects.

getScriptTimeZone() - Gets the time zone of the script.

https://developers.google.com/apps-s cript/reference/base/session#getScri ptTimeZone()

```
function tz() {
  var timeZone = Session.getScriptTimeZone();
  Logger.log(timeZone);
function lister() {
  var today = new Date();
  var endDate = new Date();
  endDate.setDate(today.getDate() + 7);
  var cal = CalendarApp.getDefaultCalendar();
  var events = cal.getEvents(today, endDate);
  if (events && events.length > 0) {
    for (i = 0; i < events.length; i++) {
Logger.log(Utilities.formatDate(events[i].getStartTim
e(), Session.getScriptTimeZone(), "HH:mm"));
Logger.log(Utilities.formatDate(events[i].getEndTime
(), Session.getScriptTimeZone(), "HH:mm"));
Logger.log(Utilities.formatDate(events[i].getStartTim
e(), Session.getScriptTimeZone(), "MMM dd yyyy"));
```

```
function listEvents() {
  var today = new Date();
  var endDate = new Date():
  endDate.setDate(today.getDate() + 7);
  var cal = CalendarApp.getDefaultCalendar();
  var events = cal.getEvents(today, endDate);
  var data = [];
  var days = [];
  data.push("Events for today " + Utilities.formatDate(today, Session.getScriptTimeZone(), "MMM dd yyyy"));
  if (events && events.length > 0) {
    for (i = 0; i < events.length; i++) {
       var obj = {
          start: Utilities.formatDate(events[i].getStartTime(), Session.getScriptTimeZone(), "HH:mm")
          , end: Utilities.formatDate(events[i].getEndTime(), Session.getScriptTimeZone(), "HH:mm")
          , date: Utilities.formatDate(events[i].getStartTime(), Session.getScriptTimeZone(), "MMM dd yyyy")
          , title: events[i].getTitle()
          , location: events[i].getLocation()
          , desc: events[i].getDescription()
          , timestamp: Utilities.formatDate(events[i].getStartTime(), Session.getScriptTimeZone(), "yyyy-MM-dd'T'HH:mm:ss'Z")
       days.push(obj);
       data.push(events[i].getTitle() + ': ' + Utilities.formatDate(events[i].getStartTime(), Session.getScriptTimeZone(), "HH:mm") + '-' +
Utilities.formatDate(events[i].getEndTime(), Session.getScriptTimeZone(), "HH:mm"))
     return days;
  else {
    return ['No events found', ", "];
```





Add to Spreadsheet

- 1. Create a sheet named 'feed'
- 2. Clear the sheet of existing data
- 3. Add a row for the header
- Get the date range and events list
- 5. Iterate thru the events and get start and end times, add into an array
- 6. Add the array or row of data to the spreadsheet.

```
function addToSheet() {
  var ss = SpreadsheetApp.getActiveSpreadsheet();
  var sheet = ss.getSheetByName("feed");
 sheet.deleteRows(1, 100);
ss.appendRow(['Start','End','Date','Title','Location','Desc','F
ull']);
  var today = new Date();
  var endDate = new Date();
  endDate.setDate(today.getDate() + 7);
  var cal = CalendarApp.getDefaultCalendar();
  var events = cal.getEvents(today, endDate);
  var data = \Pi:
  var days = []:
  for (i = 0; i < events.length; i++) {
     var rep =
[Utilities.formatDate(events[i].getStartTime(),
Session.getScriptTimeZone(), "HH:mm"),
Utilities.formatDate(events[i].getEndTime(),
Session.getScriptTimeZone(), "HH:mm"),
Utilities.formatDate(events[i].getStartTime(),
Session.getScriptTimeZone(), "MMM dd vvvv"),
events[i].getTitle(), events[i].getLocation(),
events[i].getDescription(),
Utilities.formatDate(events[i].getStartTime(),
Session.getScriptTimeZone(),
"vvvv-MM-dd'T'HH:mm:ss'Z"")];
     var added = ss.appendRow(rep);
```



← Project 2 → Triggers

Owned by: Me 🔞

Owned by Last run
Me

Create a Trigger

Class ScriptApp - Access and manipulate script publishing and triggers. This class allows users to create script triggers and control publishing the script as a service.

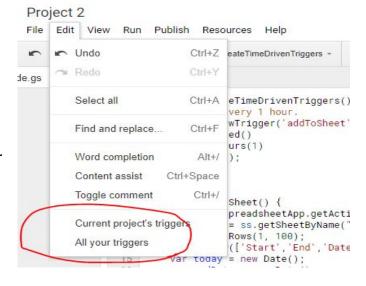
https://developers.google.com/apps-s cript/reference/script/script-app

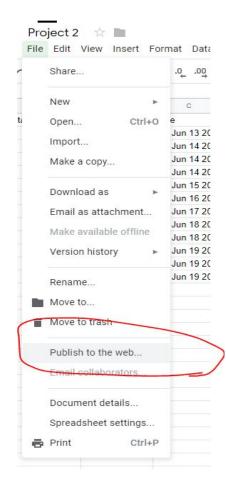
You can see all project triggers under Edit Current project's triggers or All your triggers.

https://script.google.com/u/0/home/triggers

The function will run every hour.

```
function createTimeDrivenTriggers() {
  // Trigger every 1 hour.
  ScriptApp.newTrigger('addToSheet')
    .timeBased()
    .everyHours(1)
    .create();
}
```





Spreadsheet as JSON

Publish your Spreadsheet so it can be used as a JSON data feed.

Open the spreadsheet select in the File menu, go down to *publish to the web* option.

Select **Publish** Button

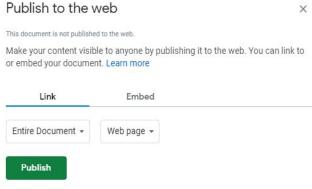
Using your Spreadsheet ID update the below URL with **YOUR ID**.

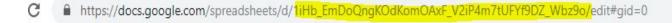
https://spreadsheets.google.com/feeds/list/YOURID/1/public/values?alt=json

Open in browser the url from above with your ID.

Get the ID from the spreadsheet URL

```
function createTimeDrivenTriggers() {
  // Trigger every 1 hour.
  ScriptApp.newTrigger('addToSheet')
    .timeBased()
    .everyHours(1)
    .create();
}
```







JSON data

https://spreadsheets.google.com/feeds/list/YOURID/1/public/values?alt=json

Open in browser the url from above with your ID.

You should be able to go to the URL and see a bunch of JSON data.

Open your editor and we will make an AJAX request to this URL for the data.

The editor that I use in the course is brackets.io - free open source Adobe product.

← → C · in https://spreadsheets.google.com/leeds/list/1iHb_EmDoOrg/KOdKomOAuE_V2iP4m?tUFY50Z_Wbz9o/1/public/values?alt=json

("version"""". B", "eccoling" """ F4", ""feel" : ["value" "http://www.a.org/2006/ktom", "windspeedserch" "http://dx.com!-/gee/operserchres/1.8/", "windspec" "http://schemas.google.com/spresiblects/2006/entended", "W" :

["St":"https://spresiblects.acogic.com/feels/list/libb Endows/Discouling" vijPerTiFFFOU Wichellich | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """ | """

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"rel": http://schemes.google.com/g/00004post/.jpp:":ppp:"spplication/stomensi., "href: "https://spreadsbets.google.com/feeds/list/libe_EmbOpge000000005/Villa#DEFFFFGU_Uscoll/public/values-

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Setup HTML - AJAX request

JavaScript to make AJAX request to URL with JSON data.

Update function to parse JSON data.

```
<div id="ev"> </div>
<script>
const feedID =
"1wt2Xj5LLYtFa 8PwmbDEpLuUOMz qlgDDHxF 8wjaYc";
const ev = document.getElementById('ev');
    document.addEventListener('DOMContentLoaded',
test);
function test() {
       const url =
"https://spreadsheets.google.com/feeds/list/" + feedID +
"/1/public/values?alt=json";
       fetch(url).then(function (res) {
         return res.json()
       }).then(function (data) {
         console.log(data);
</script>
```

function test() { const url = "https://spreadsheets.google.com/feeds/list/" + feedID + "/1/public/values?alt=json"; fetch(url).then(function (res) { return res.json() }).then(function (data) { let tempArray = []; let sheetName = data.feed.title.\$t: data.feed.entry.forEach(function (element) { let holder = {}; for (let key in element) { if $(\text{key.substring}(0, 3) == "gsx") {$ holder[key.split('\$')[1]] = element[key].\$t; tempArray.push(holder); console.log(tempArray);



JSON data

Use JavaScript client side in the editor to get the data, then using document object model create elements that can display the data from the JSON feed.

You should see the data from your Google Calendar displayed in the page.

DES Project Mgmnt meeting Jun 10 2019 9:15 - 10:00

DES IT meetings Jun 10 2019 10:00 - 11:00

DE CMS system discussion and update Jun 11 2019 10:00 - 11:00

Just booking at time for the next meeting. I'm happy to come to your place if you can book a room ...thanks

AIO content Update Jun 11 2019 13:00 - 14:00 AIO Game Boss battle Questions

DES Team meetings Jun 11 2019 14:30 - 15:30

Hi everyone

Rescheduling the DES team meeting to afternoon 2.30pm - 3.30pm as there is a Cohort Course Planning meeting in the morning.

DES Team meeting agenda 2019 will be available in Google drive Here is the link:

https://docs.google.com/document/d/1UY1hty2d45bhXLpqfo1nTeJSs3RUN_1fAZ1JjfeAmKM/edit

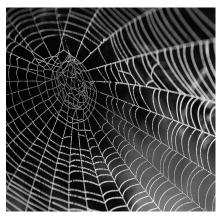
Standing Zoom meeting URL:

https://ryerson.zoom.us/j/599658332

10 minutes before

Matrix Business Models and Payments process Jun 12 2019 15:00 - 16:00

```
function loadOutput(myData) {
  console.log(myData);
  for (var i = 1; i < myData.length; i++) {
     console.log(myData[i]);
     const div = document.createElement('div');
     div.innerHTML = myData[i].title + ' <b>' + myData[i].date + ' </b> ' + myData[i].start + ' - ' + myData[i].end + '<br/>/ + myData[i].date + ' </b> ' + myData[i].start + ' - ' + myData[i].end + ' <br/>/ + myData[i].date + ' </b>
     ev.appendChild(div);
function loadJSON() {
  const url = "https://spreadsheets.google.com/feeds/list/" + feedID + "/1/public/values?alt=json";
  fetch(url).then(function (res) {
     return res.json()
  }).then(function (data) {
     let tempArray = [];
     let sheetName = data.feed.title.$t:
     data.feed.entry.forEach(function (element) {
        let holder = {};
        for (let key in element) {
           if (\text{key.substring}(0, 3) == "gsx") {
              holder[key.split('$')[1]] = element[key].$t;
        tempArray.push(holder);
     loadOutput(tempArray);
```



Google Script WebApp

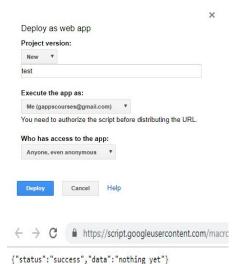
If you build a user interface for a script, you can publish the script as a web app.

https://developers.google.com/apps-s cript/guides/web

Contains a doGet(e) or doPost(e) function.

The function returns an HTML service HtmlOutput object or a Content service TextOutput object.

```
function doGet(e) {
   var output = JSON.stringify({
      status: 'success'
      , data: 'nothing yet'
      , });
   return
ContentService.createTextOutput(output).setMimeType(C
   ontentService.MimeType.JSON);
}
```



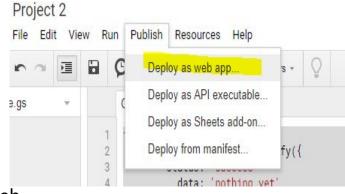
Deploy WebApp

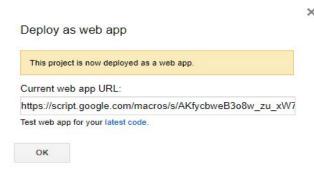
Select the *deploy as web app* option under the publish tab.

Add a name and select to execute as your account, and allow access to Anyone even anonymous.

Click **DEPLOY**

Select the app URL to get the exec web app location, while developing you can use the Test web app for your latest code link. This will update immediately once code changes whereas the App URL only when its redeployed.







Deploy WebApp

Update data to listEvents() to return the events from the calendar.

Should list all the calendar events from the range as JSON data.

Try the code in the dev url, then publish a new version of the app try it in the published app version.

https://script.google.com/macros/s/**id** /exec



```
function doGet(e) {
   var output = JSON.stringify({
       status: 'success'
       , data: listEvents()
   return
ContentService.createTextOutput(output).setMimeType(C
ontentService.MimeType.JSON);
    https://script.googleusercontent
                https://script.googleusercontent.com/macros/ech...
"status": "success", "data": [{"start": "20:38", "end": "22:38", "date": "Jun 13
.
9019","title":"New title3","location":"","desc":"","timestamp":"2019-06-
13T20:38:50Z"},{"start":"02:28","end":"04:28","date":"Jun 14 2019","title
:itle1", "location": "", "desc": "", "timestamp": "2019-06-14T02: 28:01Z"},
"start":"05:32","end":"07:32","date":"Jun 14 2019","title":"New
itle7","location":"","desc":"","timestamp":"2019-06-14T05:32:00Z"},
"start":"06:46","end":"08:46","date":"Jun 14 2019","title":"New
itle2","location":"","desc":"","timestamp":"2019-06-14T06:46:34Z"},
"start":"22:31", "end":"00:31", "date":"Jun 15 2019", "title":"New
itle8","location":"","desc":"","timestamp":"2019-06-15T22:31:12Z"},
"start":"09:38","end":"11:38","date":"Jun 16 2019","title":"New
:itle0", "location": "", "desc": "", "timestamp": "2019-06-16T09:38:46Z"},
"start":"00:00","end":"00:00","date":"Jun 17
9019","title":"test1","location":"","desc":"","timestamp":"2019-06-17T00
"start":"00:00","end":"00:00","date":"Jun 18 2019","title":"test
.,"location":"","desc":"details","timestamp":"2019-06-18T00:00:00Z"},
"start": "04:06", "end": "06:06", "date": "Jun 18 2019", "title": "New
itle5","location":"","desc":"","timestamp":"2019-06-18T04:06:22Z"},
"start":"05:05","end":"07:05","date":"Jun 19 2019","title":"New
:itle9","location":"","desc":"","timestamp":"2019-06-19T05:05:51Z"},
"start": "06:31", "end": "08:31", "date": "Jun 19 2019", "title": "New
itle6", "location": "", "desc": "", "timestamp": "2019-06-19T06:31:02Z"},
"start":"19:29","end":"21:29","date":"Jun 19 2019","title":"New
:itle4", "location": "", "desc": "", "timestamp": "2019-06-19T19: 29:35Z"}]}
```


Client Side get JSON data

Open your editor, create a fetch request to the webapp URL.

Return the data from the webapp.

This is live data which queries the calendar event every time the request is made.

You can parse this object easier than the spreadsheet data and use it to update content on your webpage.

```
const appID =
"AKfycbweB3o8w zu xW7DrLAnZ FCTSyMHMyUO
mbF16tsINXrSWixtTN";
document.addEventListener('DOMContentLoaded',
api);
function api() {
  const url =
'https://script.google.com/macros/s//exec';
  fetch(url).then(function (res) {
     return res.json()
  }).then(function (data) {
     console.log(data);
```

Congratulations on completing the course!

Thank you for your support

Check out more about JavaScript at MDN. https://developer.mozilla.org/en-US/docs/Web/JavaScript

Find out more about my courses at http://discoveryvip.com/



Course instructor: Laurence Svekis - providing online training to over 500,000 students across hundreds of courses and many platforms.

