Data Collection User Manual

Airtable
Google Sheets
&
Pipedream

CREATED BY THE WOO FRIDGES IQP TEAM

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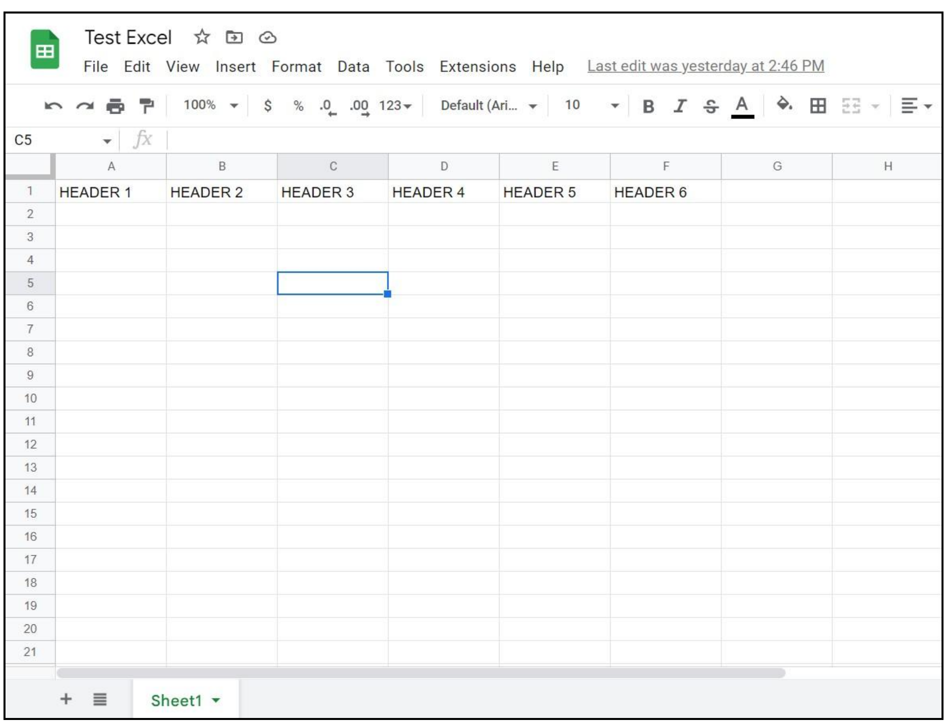
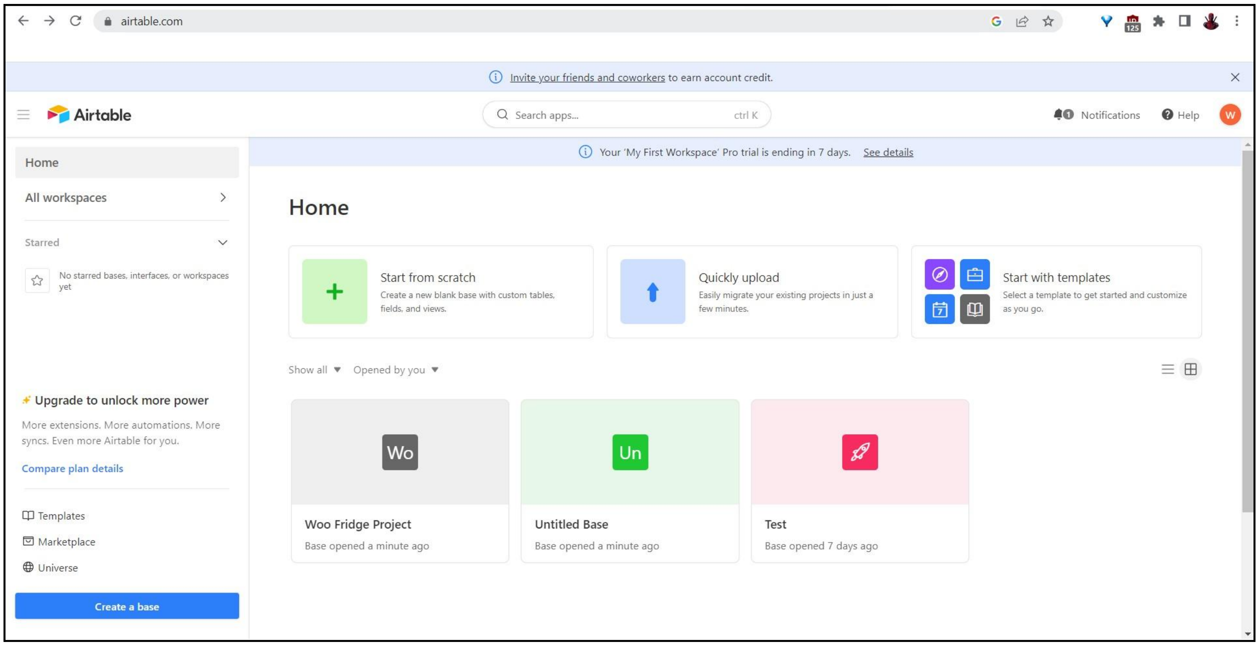
Setting Up Google Sheets

1) Create a Google Sheet
    a) If adding to an existing sheet, create a new tab instead
2) Name the tab whatever you'd like, we recommend naming them "AT [Fridge Name]"
3) The first row in the sheet is your header
    a) Each column is its own individual survey question.
4) Copy and paste our headers below (Recommended)
    a) What brings you to the fridge today?
    b) How much food is in the fridge?
    c) How clean is this fridge?
    d) How cold is this fridge?
    e) Which items would you like to see in the fridge more?
    f) Any additional comments you would like to share with us?
    g) 📷 Share a photo of the inside of the fridge and/or pantry.
    h) Name
    i) Timestamp
    j) RecordID



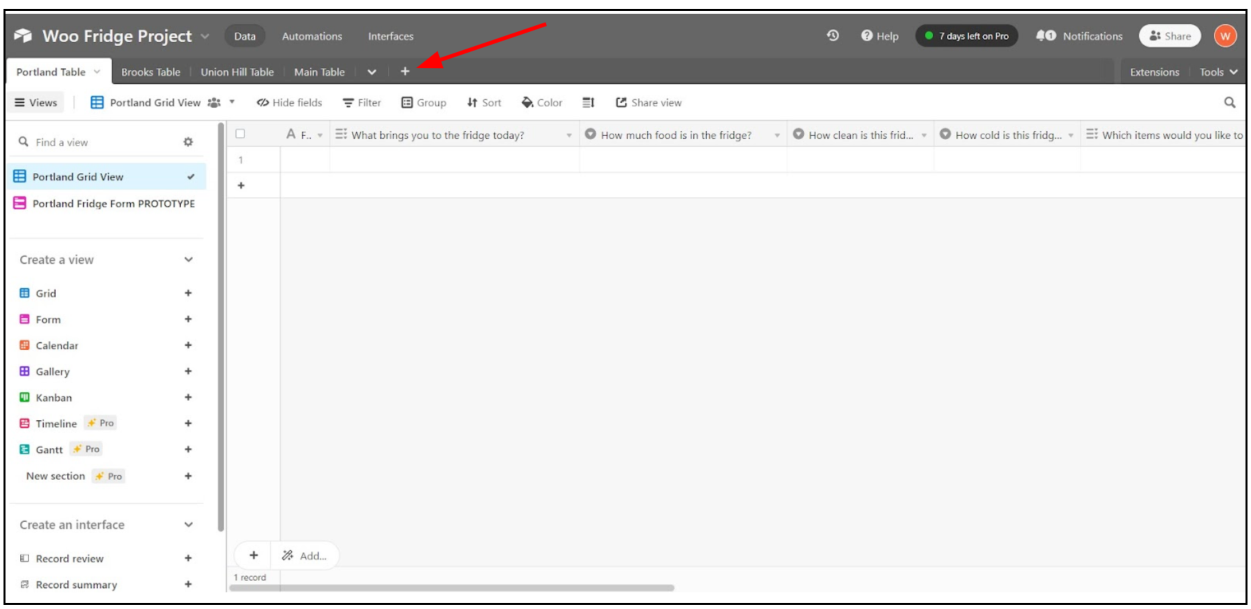
Setting Up Air Table Survey



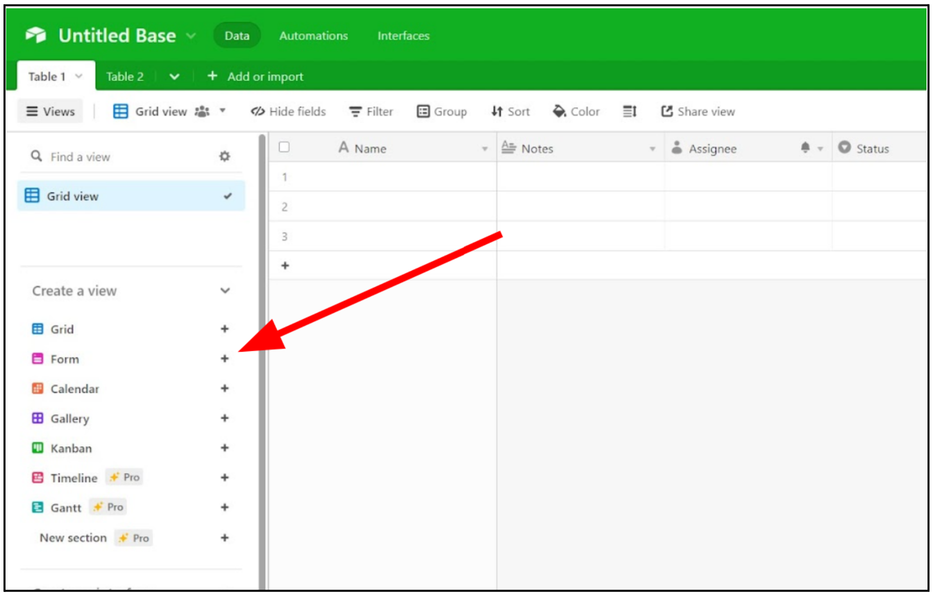
5) In Airtable, select “Start from scratch” to create a new project or open a previously created project (e.g., “Woo Fridge Project”).

   a) If starting on a previously created project, select the “+” at the bar at the top of the screen before proceeding

   b) Then select “Create Blank Table”



6) Click add Form on the left hand side



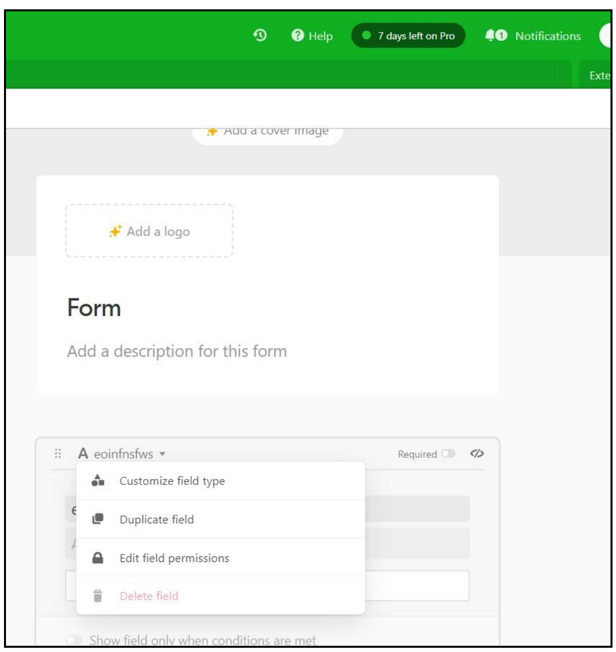
7) Rename the primary field (hint: This might be preset as “Name.”)

   a) Click on the field to enter edit mode

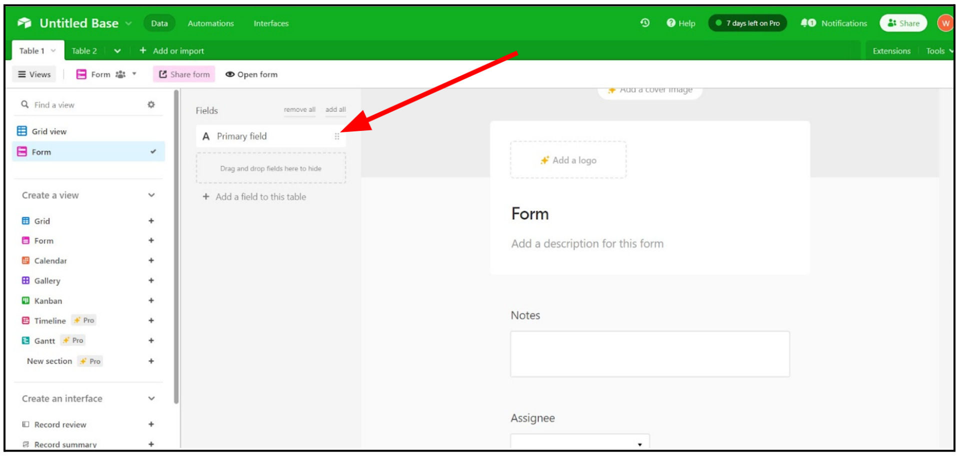
   b) Click on the name of the field in the top left

   c) Click on customize field type

   d) Then rename the field to “Primary Field”



8) Drag it to the “Fields” sidebar

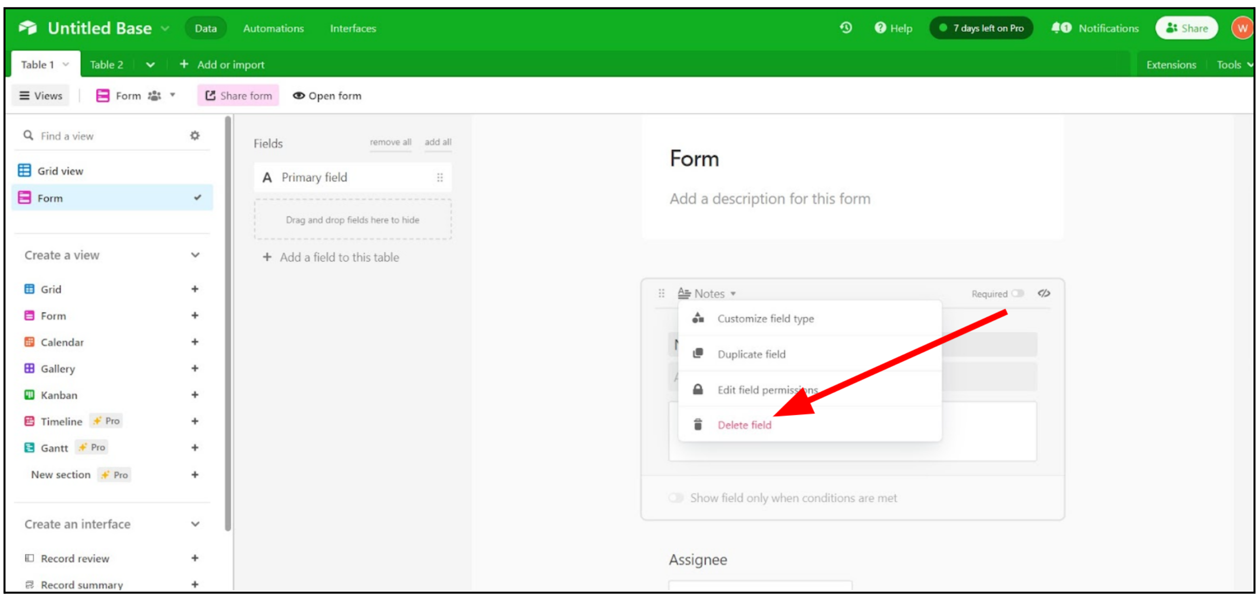


9) Delete other fields

   a) Click on the field to enter edit mode

   b) Click on the name of the field in the top left

   c) Select delete field



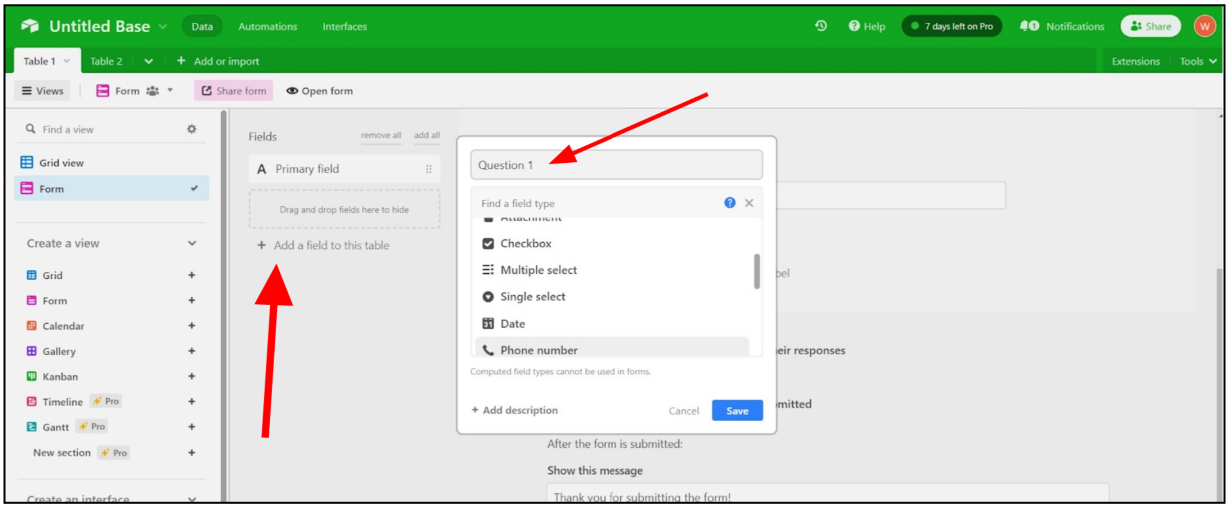
Make Survey Questions

10) To create a new field

a) Click add field to this table

b) Name the field

c) Select the field type from the drop down menu

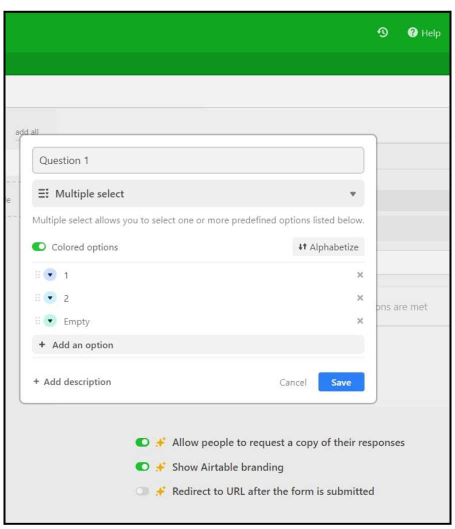


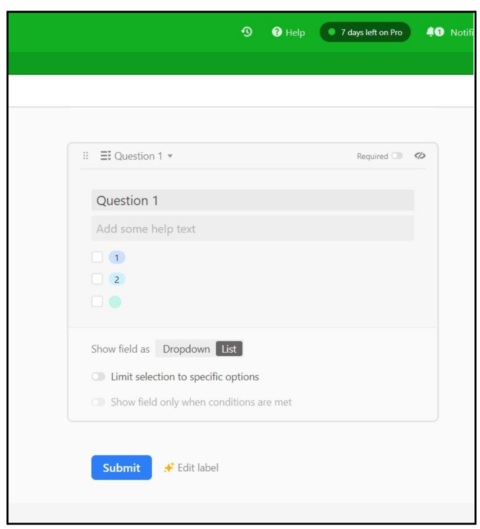
i) If field type contains multiple options (i.e multiple choice, select all that apply, etc)

(1) Then add all options and hit save

(2) Click on the field to enter edit mode

(3) Change “show field as” from “dropdown” to “list”

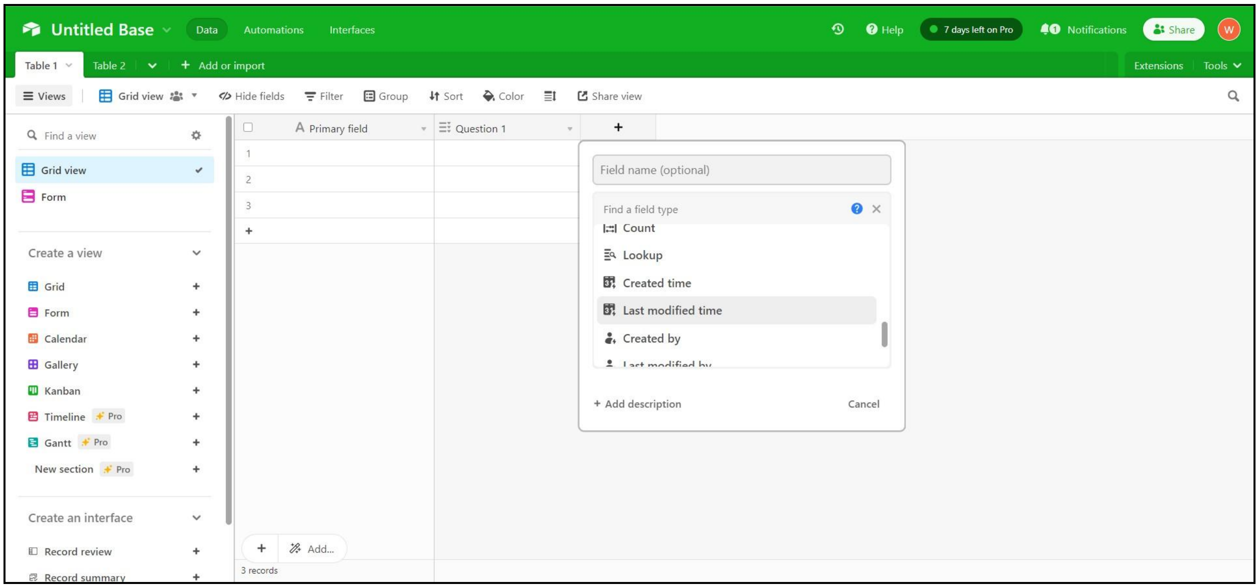




d) If question should be required then turn it on in the top right

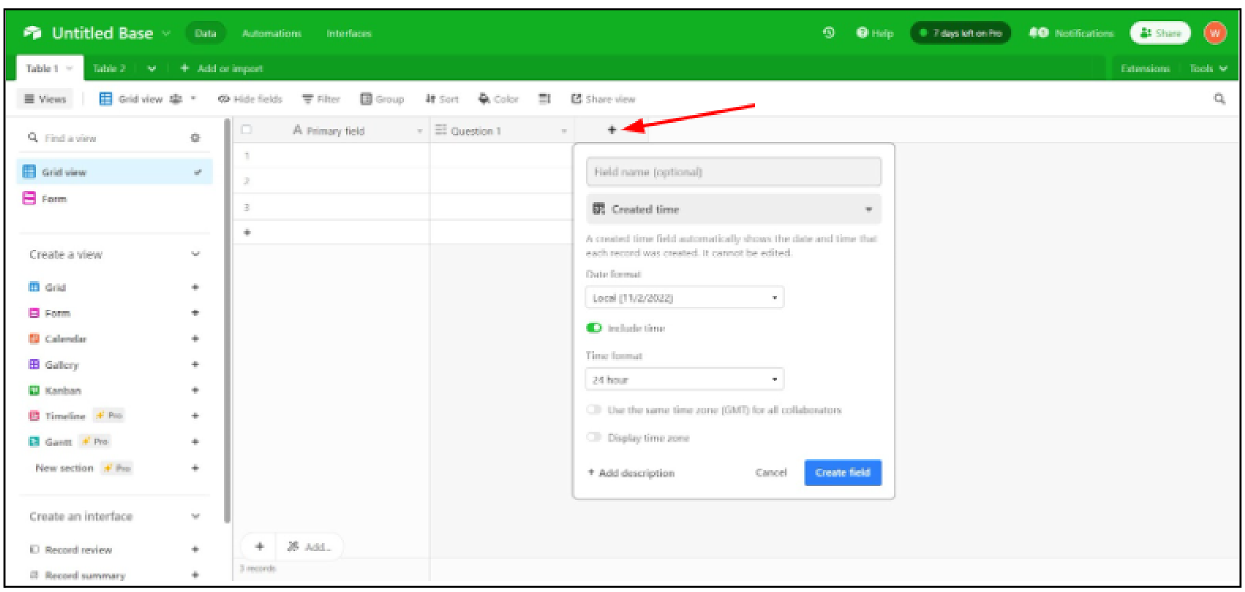
11) Once form is completed, click on “Grid View” on the left side bar

12) Click on add field button denoted by the “+” symbol at the far right of the header



a) Select field type “Created Time” in the dropdown menu, name the field “Created”

b) Select the time format to 24-hour, then click create field



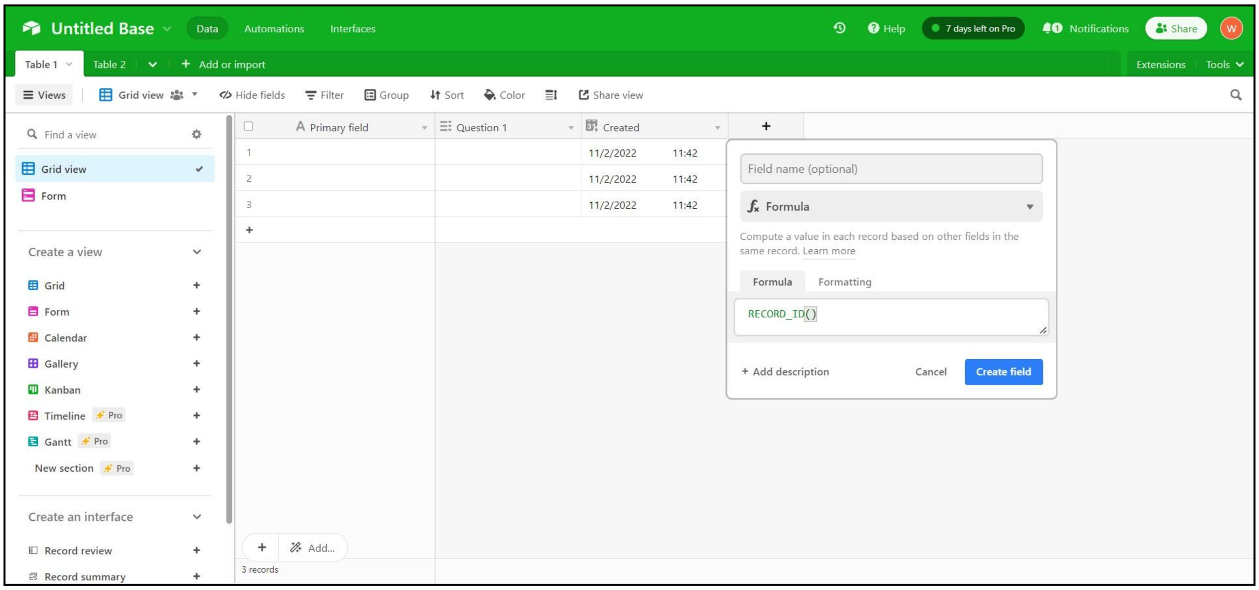
13) Click on the “Add Field” button once more

14) Select the field type “Formula”

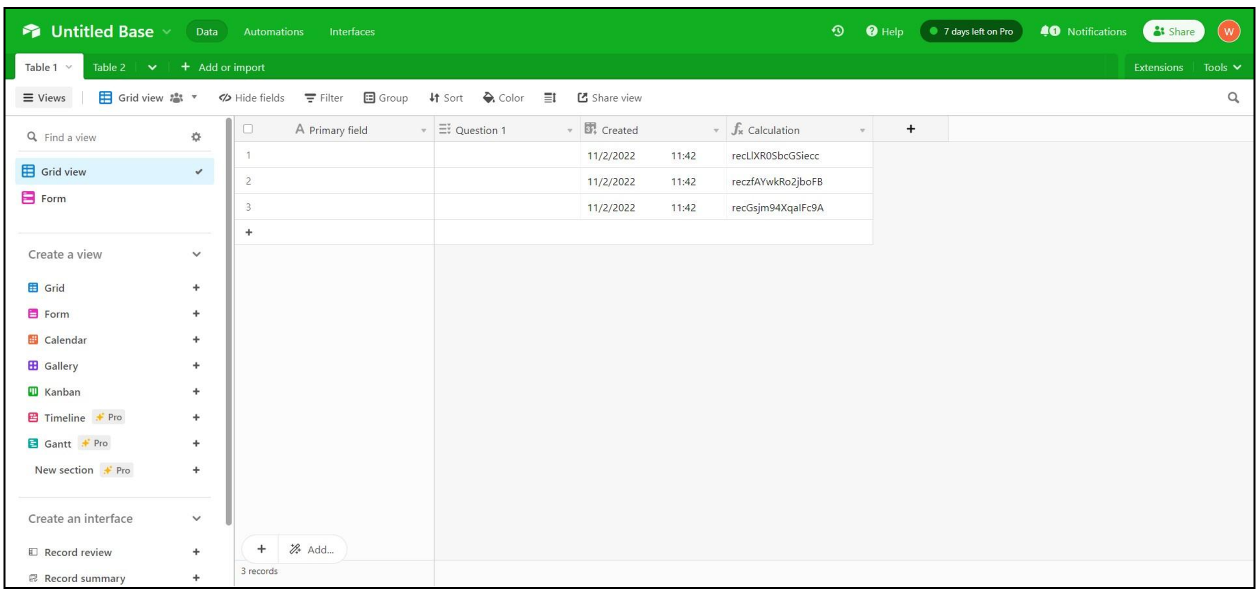
a) Name the field “RecordID”

b) In the formula box type “RECORD_ID()”

c) Then click create field

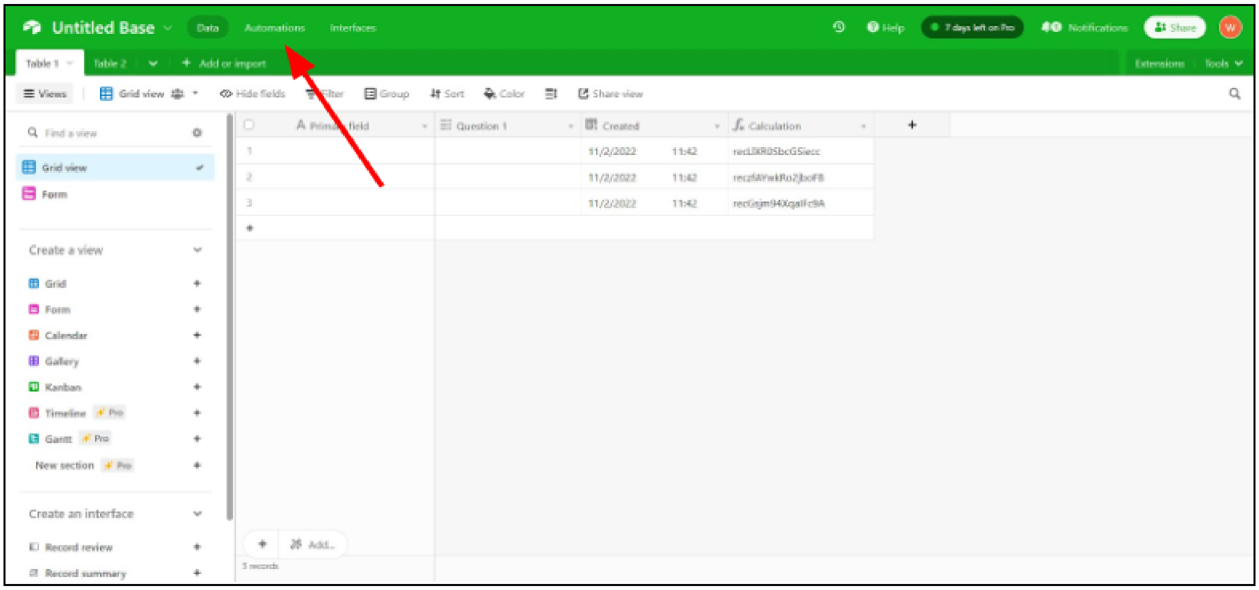


The Columns you created should look like this

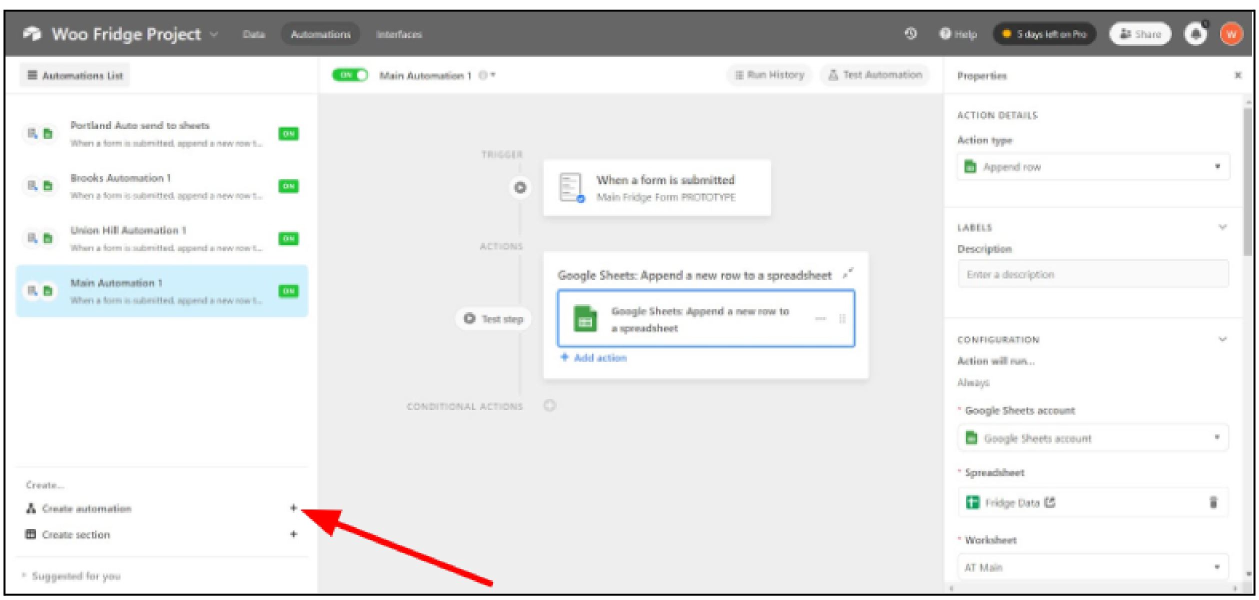


Making Automations

15) Click on "Automations" tab at the top of the screen

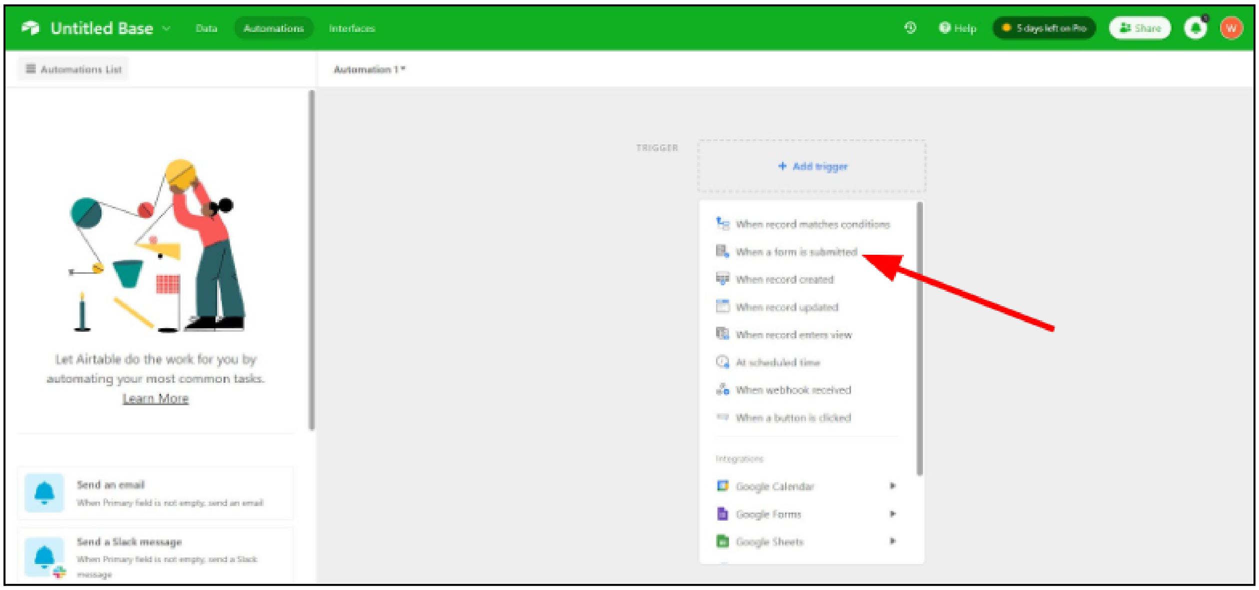


a) If there are pre-existing automations, you need to click "Create Automation" in the bottom left

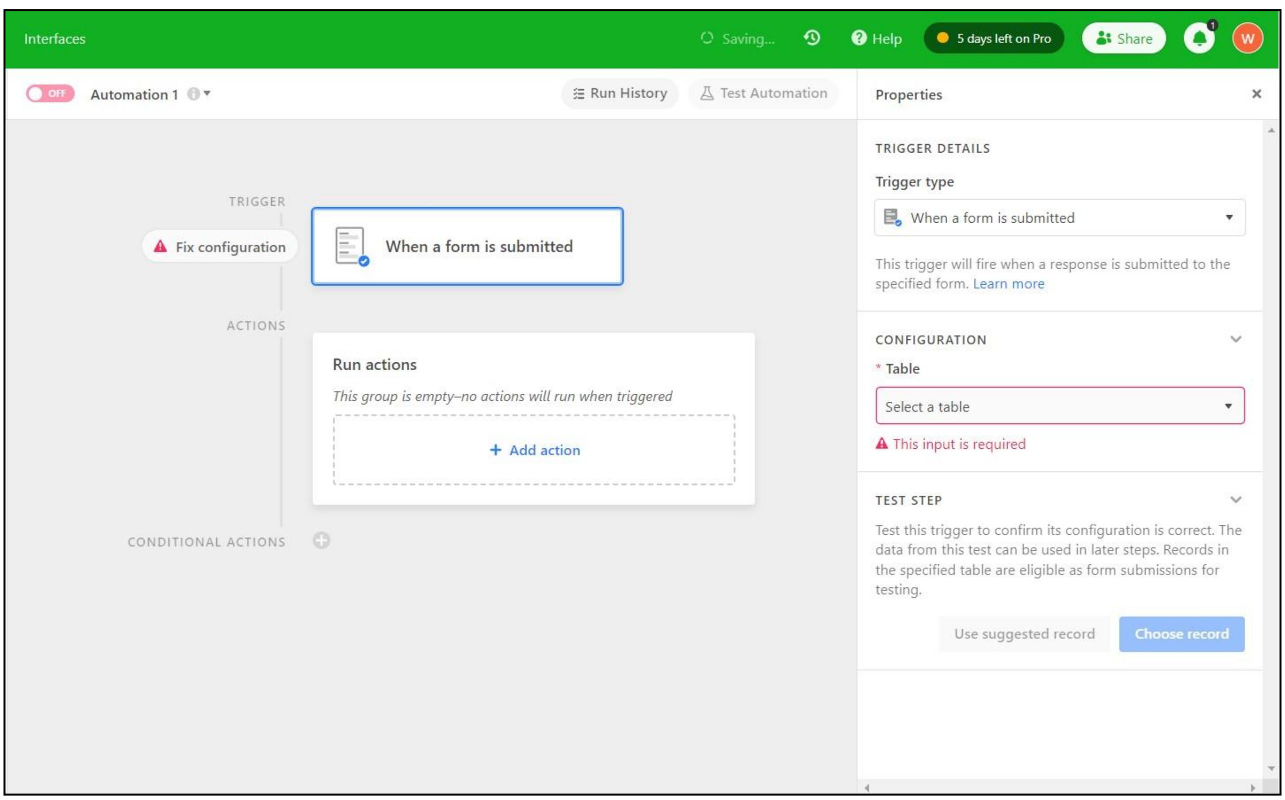


16) Click "+ Add Trigger"

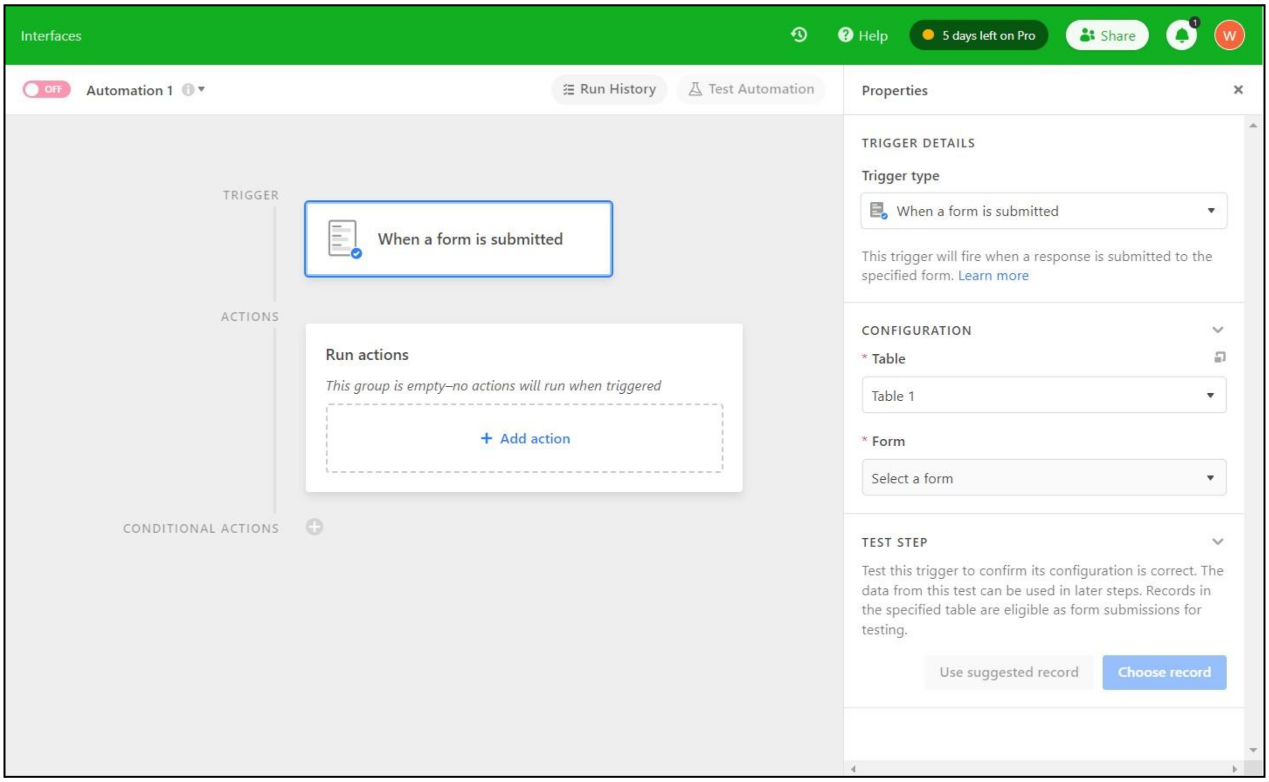
a) Select “When form is submitted”



17) In the right bar, select the table that was created, (First form created should be defaulted under “Table 1”)

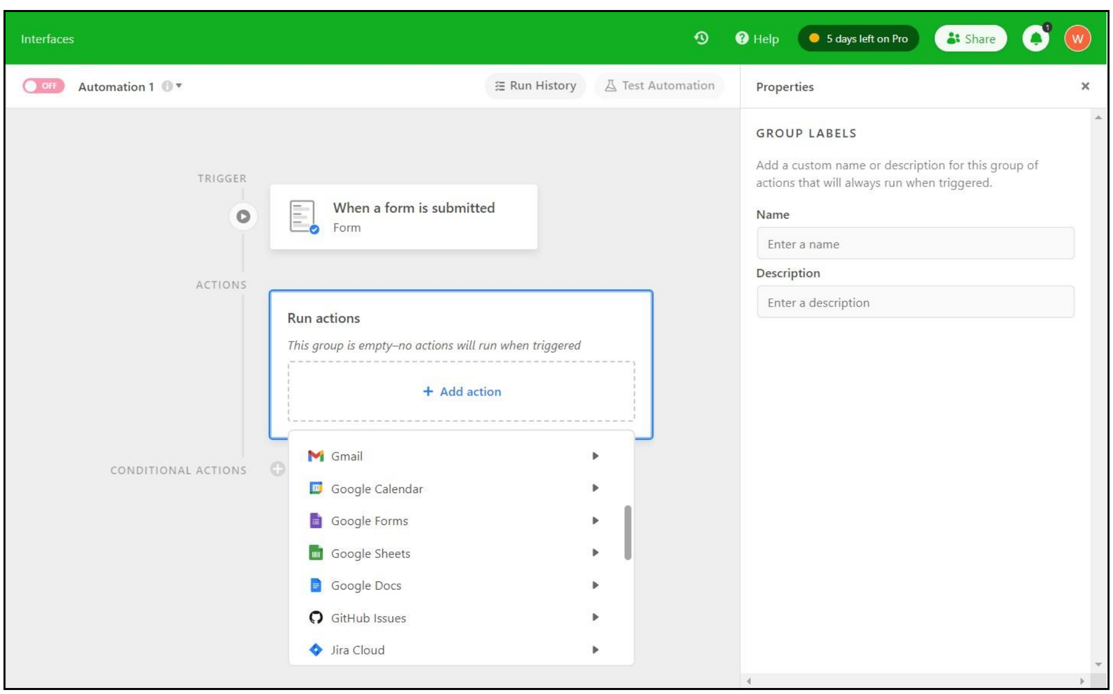


18) Select the form that was just created



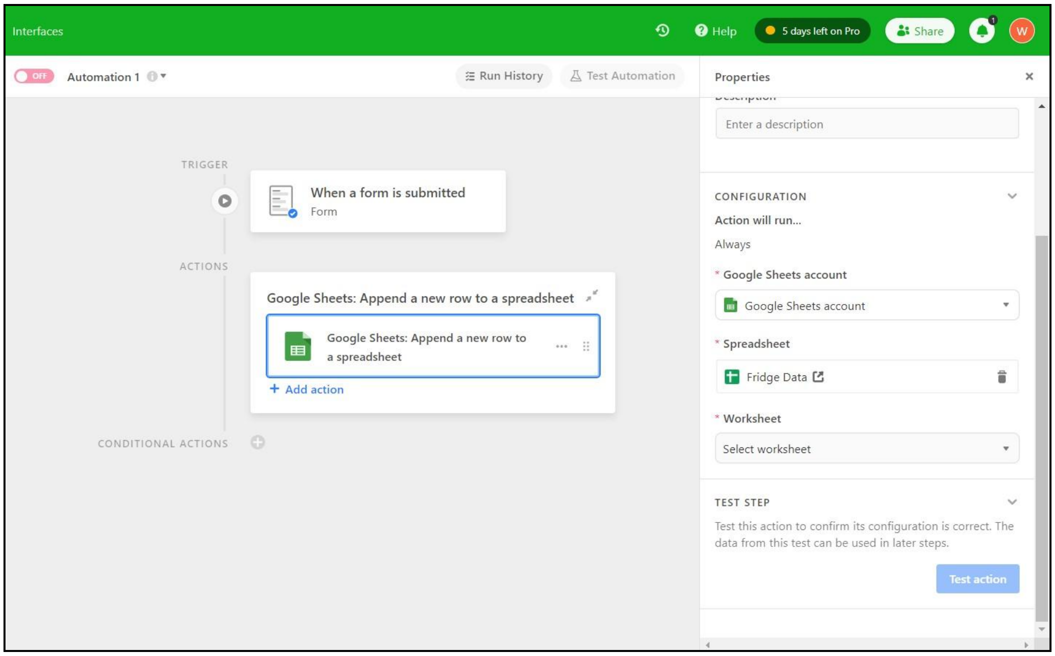
19) Click "+ Add Action"

   a) Select Google Sheets then "Append Row" from the drop down menu

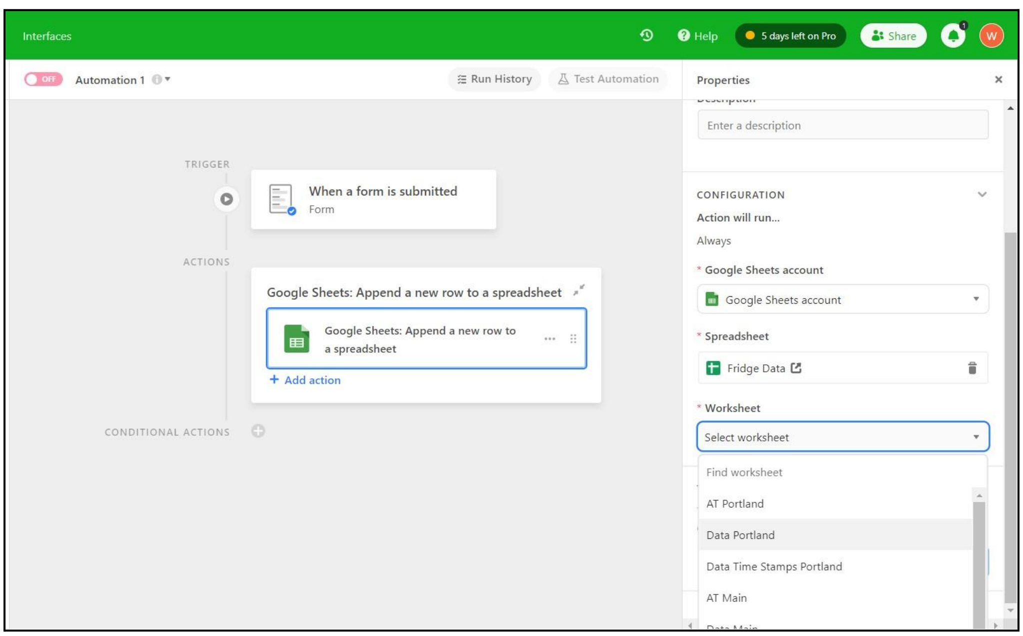


   b) On the right bar under "Google Sheets account", select the Google Sheets account that contains the desired sheet

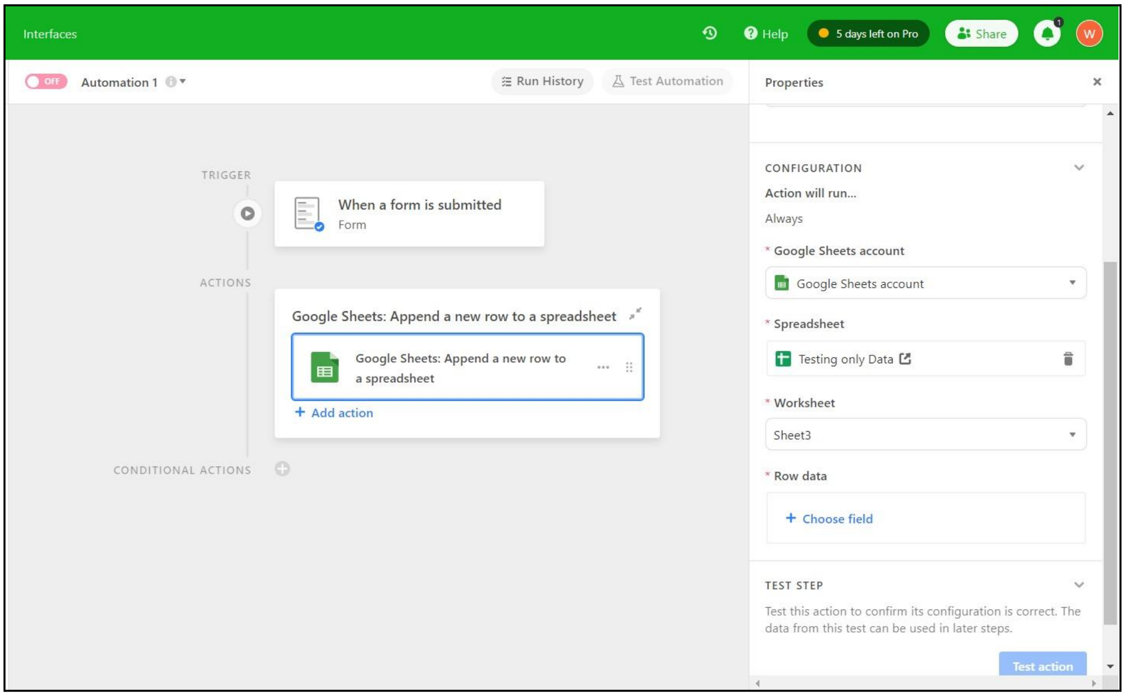
c) Under “spreadsheet”, select the desired google sheet (The one we created is named Fridge Data)



d) Under “Worksheet”, select the desired tab in google sheet

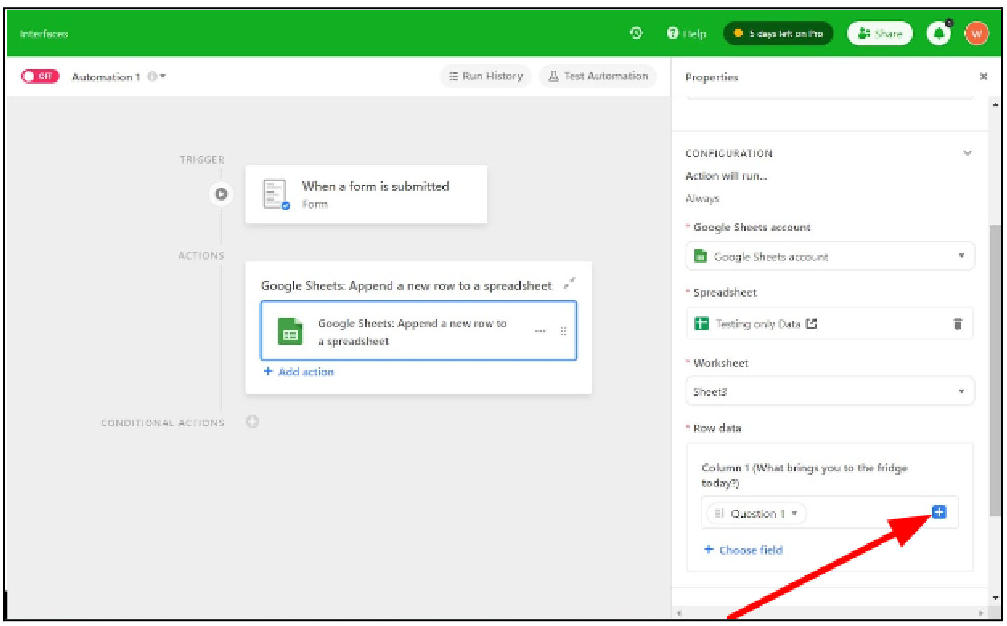


e) Under “Row Data”, click the “Choose Field” button and select a column from the google sheets.



f) Then select the "+" button in the "column 1" field

g) Select the corresponding question from the form that you want linked to the google sheet column



h) Repeat the previous step for each Airtable question/column

i) Then click on the "Turn on/off" automation switch near the top of the screen to turn on the automation

Setting Up Pipedream

Disclaimer

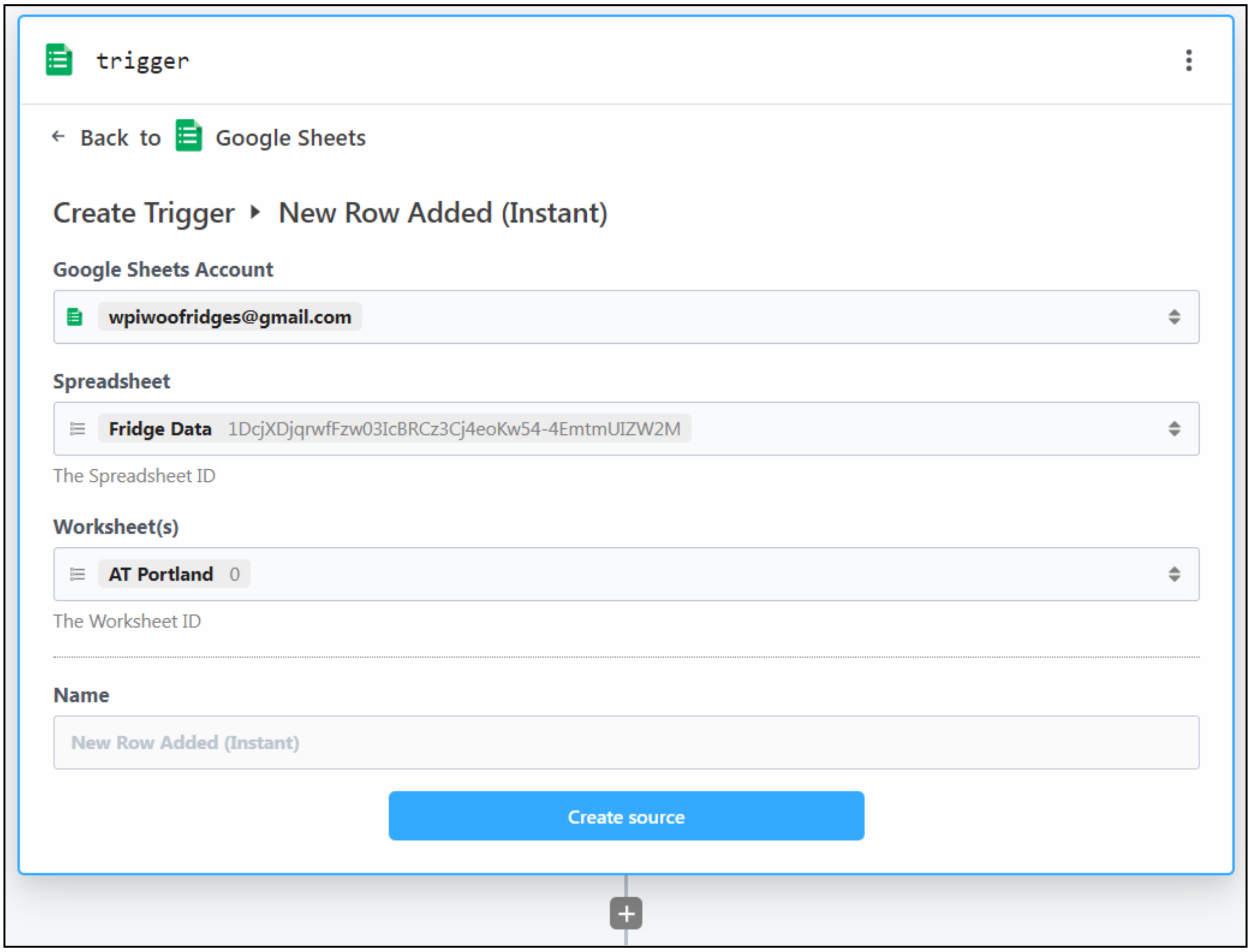
Make sure google sheets is formatted before creating a workflow in Pipedream

Changes to any of the survey questions may break a lot of the workflow shown below. Sufficient coding background is recommended if changes were to be made.

Getting Started/Creating a Trigger

1. Create a new workflow
2. Select Google Sheets as a source for the trigger
    a. Then select New Row Added (Instant)
    b. Proceed to fill out the the rest of the trigger
        i. Select a Google Sheets account
        ii. Then the targeted spreadsheet
        iii. Finally pick the specific tab in that spreadsheet
        iv. Leave the name field empty

v. Select Create Source

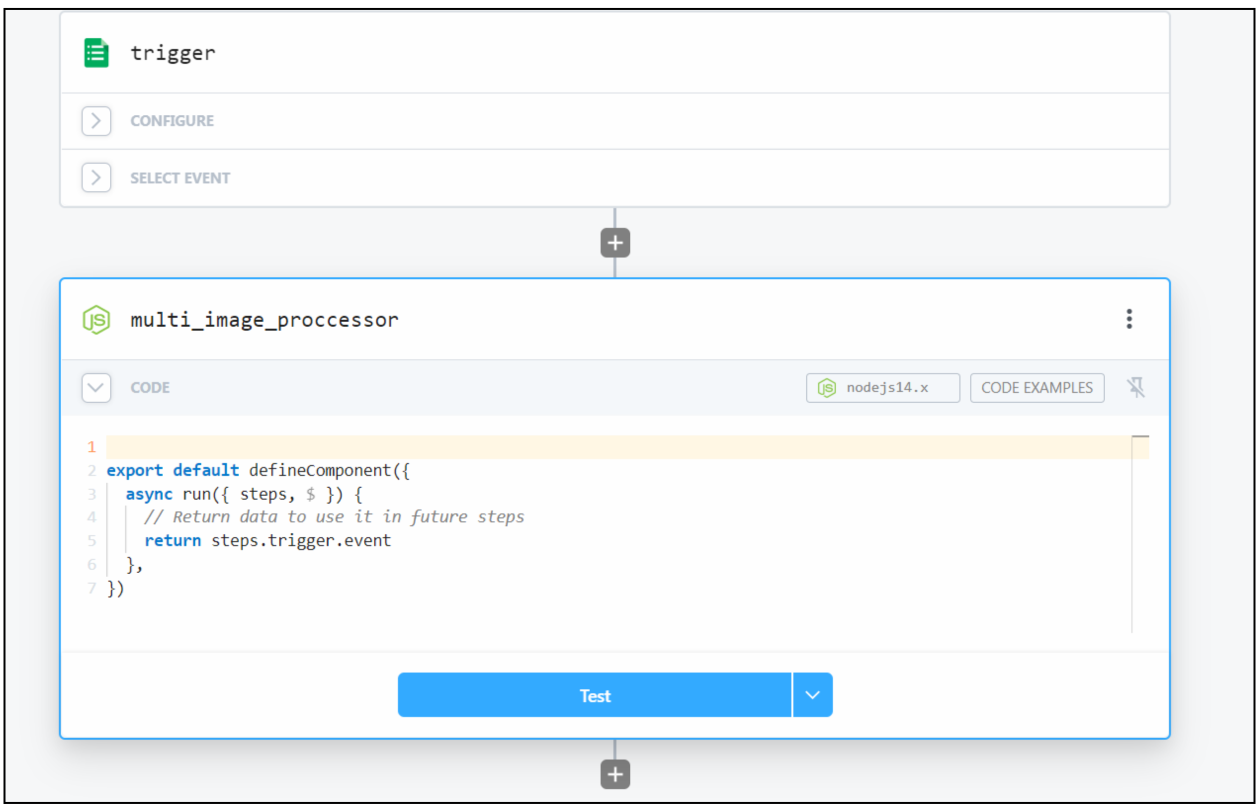


Processing Multiple Images

3. Create a new step by selecting the “+” icon below the trigger at the bottom
4. Select Node as a source for the next step
    a. Select Run Node code
    b. Name the step “multi_image_proccessor” (Hint: Default is “Node”)
    c. Copy and paste the code below

```
export default defineComponent({
  async run({ steps, $ }) {
    return steps.trigger.event.newRow[6].split(", ")
  },
})
```

i. Replace the number 6 with the corresponding column in excel -1 that contains the image links (ignore if using the same excel format as our examples)



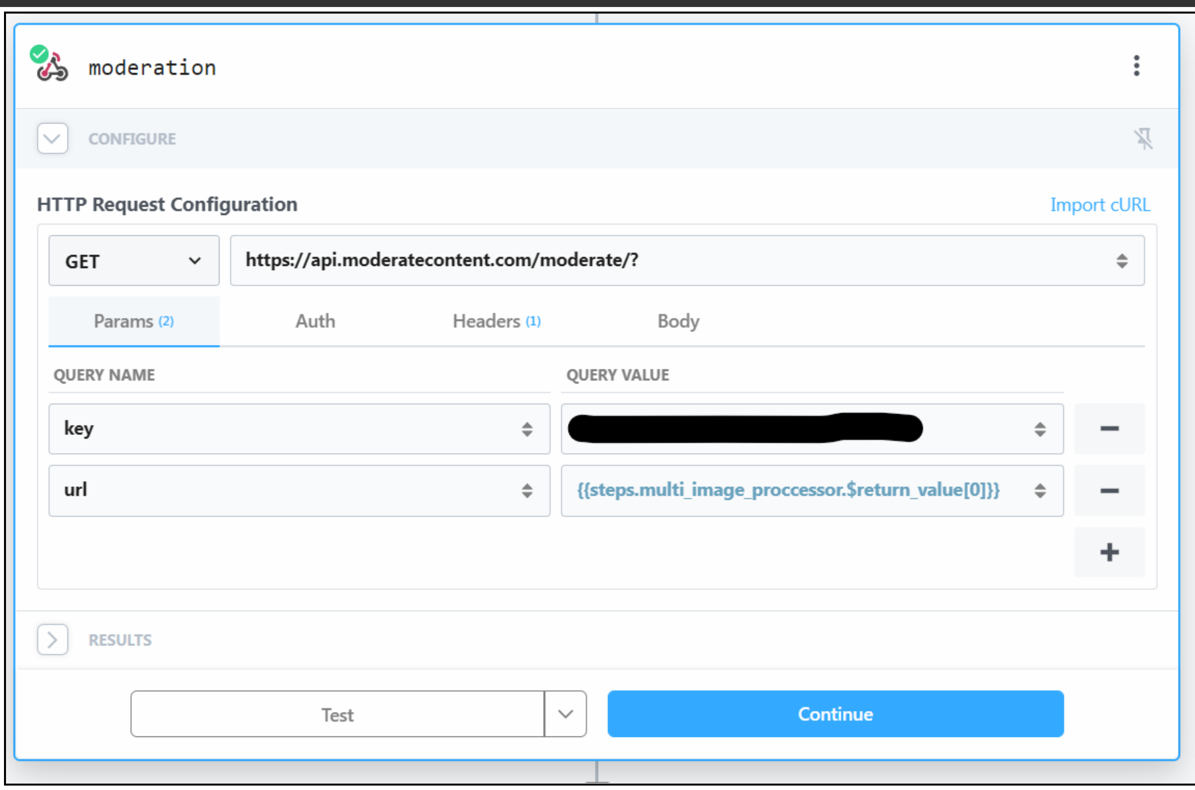
Applying Content Moderation

5. Go to https://www.moderatecontent.com/signup (If you already have a content moderation API key you can ignore)
    a. Sign up and obtain an API key
6. Create a new step again
7. Select HTTP / Webhook as a source
    a. Select Send GET Request
    b. Name the step “moderation”
    c. Under GET, copy and paste the link below

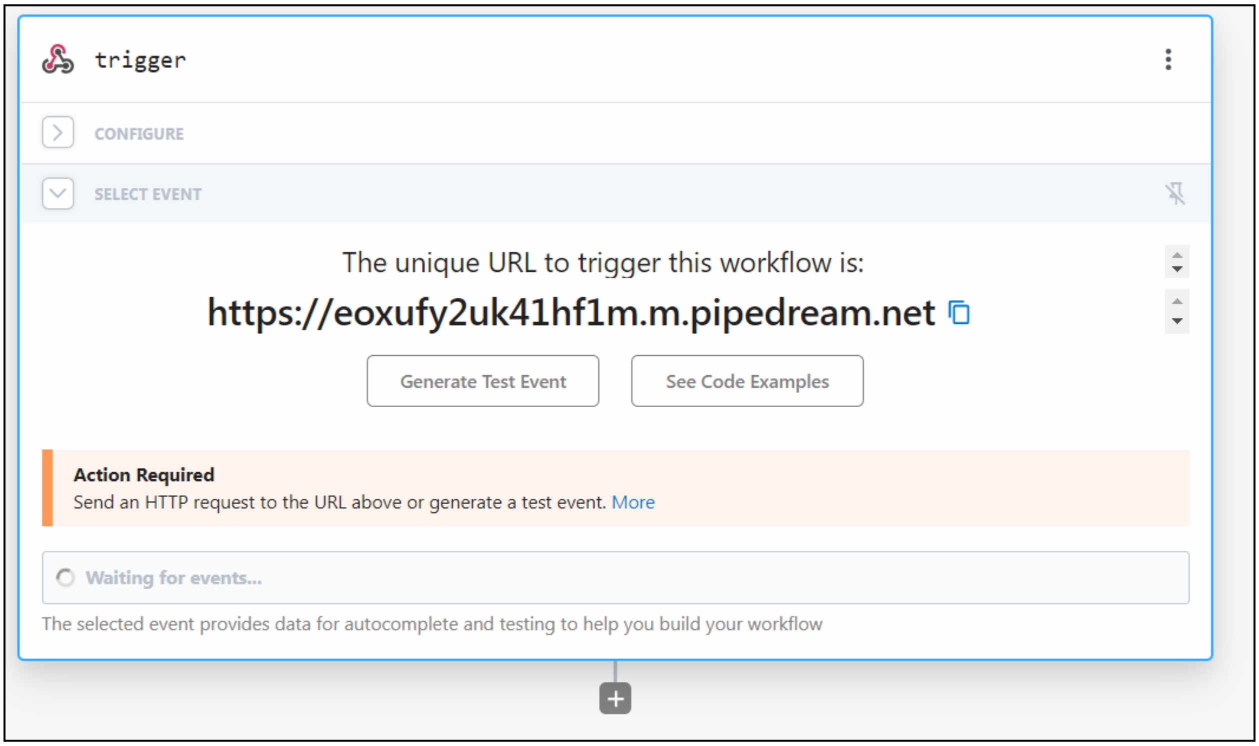
```
https://api.moderatecontent.com/moderate/?
```

    d. Under Params name the query “key”
        i. Copy and paste the API key that you received from step 5
    e. Add a query and name it “url”
        i. Copy and paste the text below

```
{{steps.multi_image_proccessor.$return_value[0]}}
```



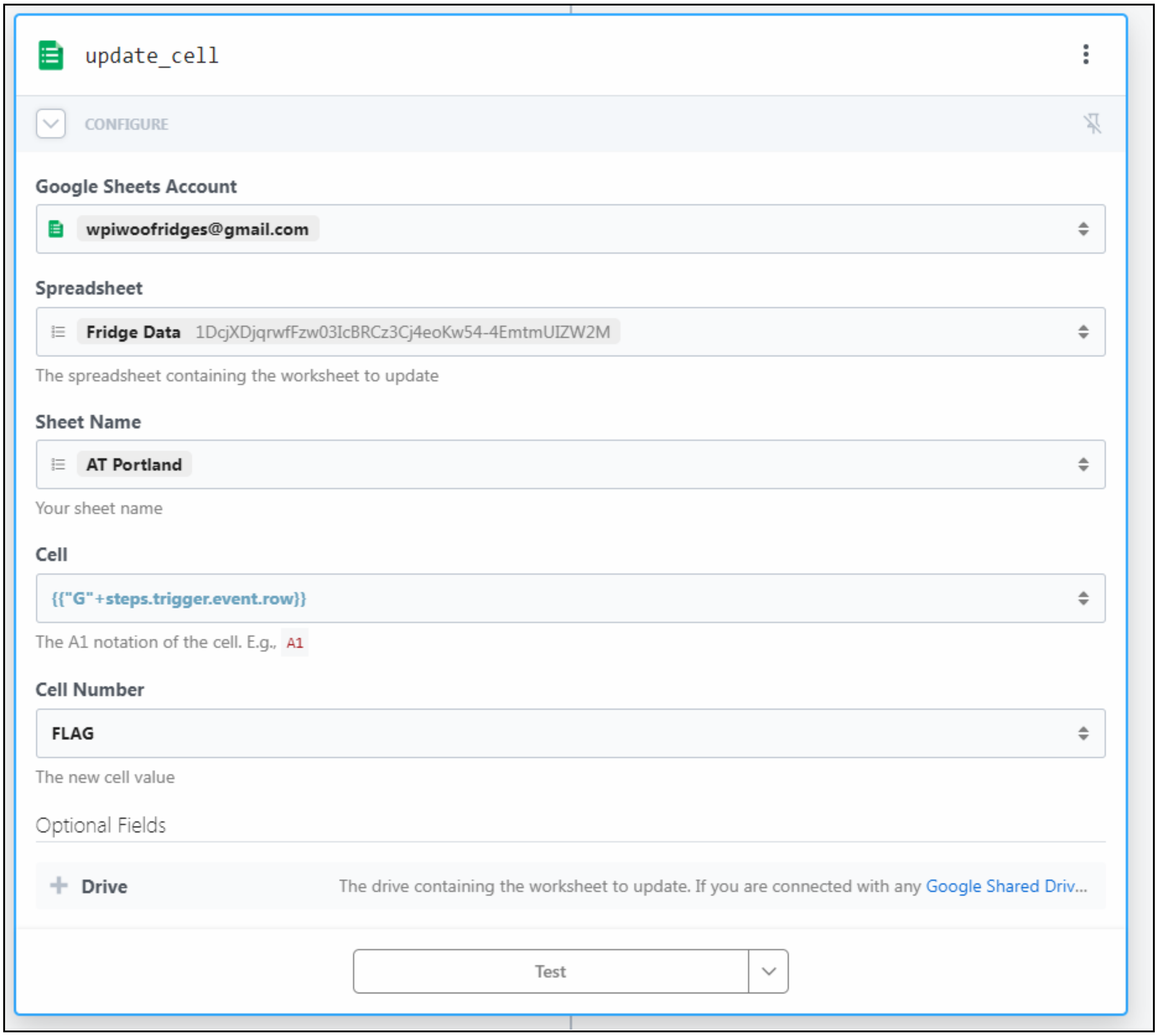
8. Go back to the your Pipedream accounts workflow list (https://pipedream.com/workflows)
9. Create a new workflow
10. Select HTTP / Webhook as a source for the trigger
    a. Then select HTTP Requests with a Body
    b. Click Save and continue
    c. Save the unique URL that is created



11. Add a new step
12. Select Google Sheets as the source
    a. Then select Update Cell
    b. Name the step "update_cell"
    c. Fill out the information the same as in step 2
    d. Under Cell copy and paste the text below

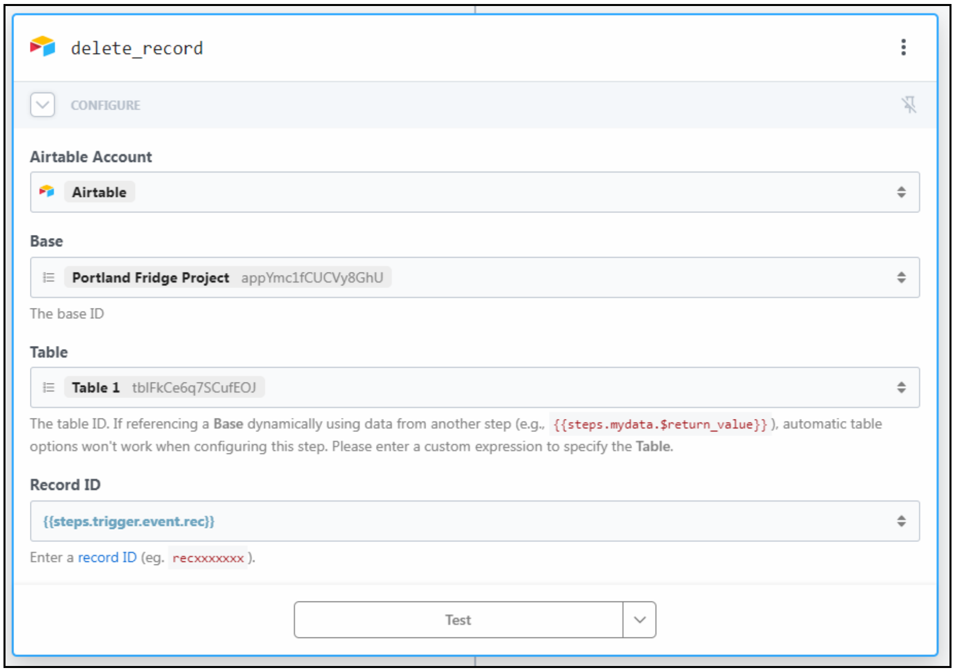
```
{{"G"+steps.trigger.event.row}}
```

        i. Replace the letter G with the corresponding column in your excel sheet that contains the image link (ignore if using our excel examples)
    e. Under Cell Number type in "Flag"



13. Add a new step
14. Select Airtable as the source
    a. Then select Delete Record
    b. Name the step “delete_record”
    c. Connect the proper Airtable account
    d. Select corresponding Base and Table
    e. Under Record ID copy and paste the text below

```
{{steps.trigger.event.rec}}
```



15. Go back to the original workflow
16. Add a new step
17. Select Node as a source
    a. Select Run Node code
    b. Name the step “node”
    c. Copy and paste the code below

```
export default defineComponent({
 async run({ steps, $ }) {
  let hasImage = true;
  if (steps.trigger.event.newRow[6] === "") {
   hasImage = false;
  }
  if (hasImage && steps.moderation.$return_value.rating_letter !== "e") {
   $.send.http({
   url: "https://eotctest.m.pipedream.net",
   method: "POST",
   data: {
   rec: steps.trigger.event.newRow[9],
   row: steps.trigger.event.rowNumber,
```

```
  }
 })
  }
  // Return data to use it in future steps
  return hasImage
 },
})
```

i. Replace the number 6 with the corresponding column in excel -1 that contains the image links (ignore if using the same excel format as our examples)

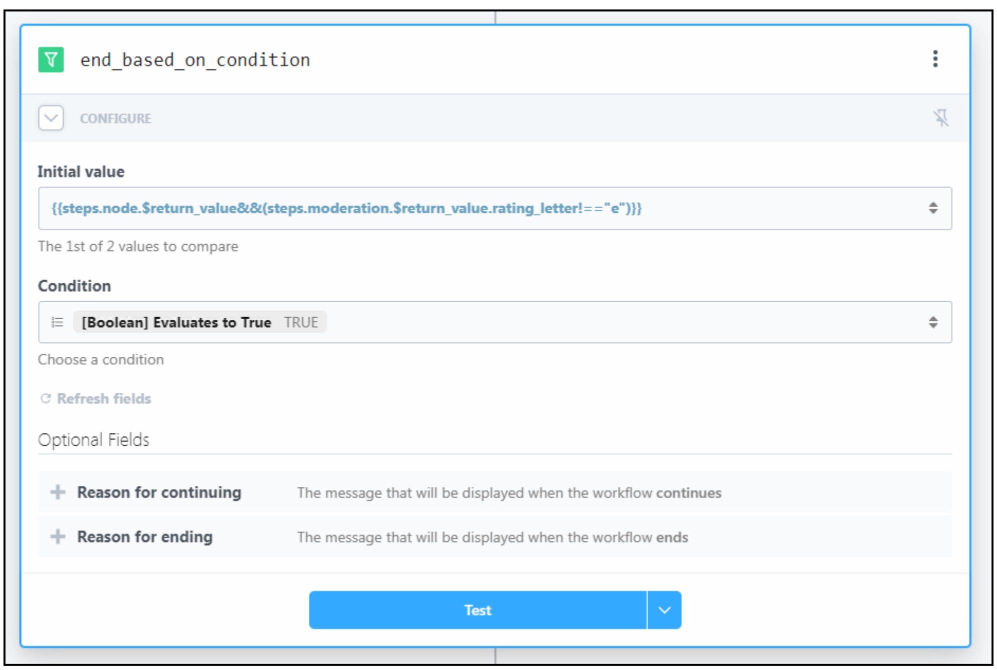
ii. Replace the number 9 with the corresponding column in excel -1 that contains the Airtable recordID (ignore if using the same excel format as our examples)

iii. Replace the url link with the link saved from step 10

18. Add a new step
19. Select Filter as the source
    a. Select End execution if a condition is met
    b. Name the step "end_based_on_condition"
    c. Set initial value to the text below

```
{{steps.node.$return_value&&(steps.moderation.$return_value.rating_letter!=="e")}}
```

    d. Set the Condition to [Boolean] Evaluates to True

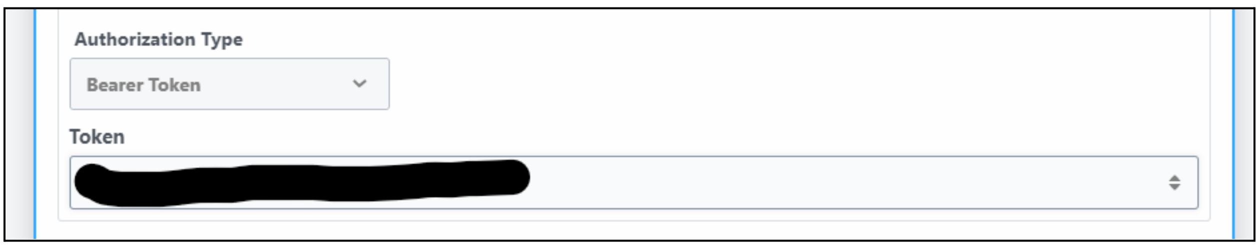


Rehosting Images on Imgur

20. Go to https://api.imgur.com/oauth2 and follow the steps to register an application for a key
    a. Skip this step if you already have an Imgur key from a previous project.
21. Add a new step
22. Select HTTP / Webhook as the source
    a. Select Send POST Request
    b. Name the step “imgur_hosting”
    c. Under POST copy and paste the link below

```
https://api.imgur.com/3/image
```

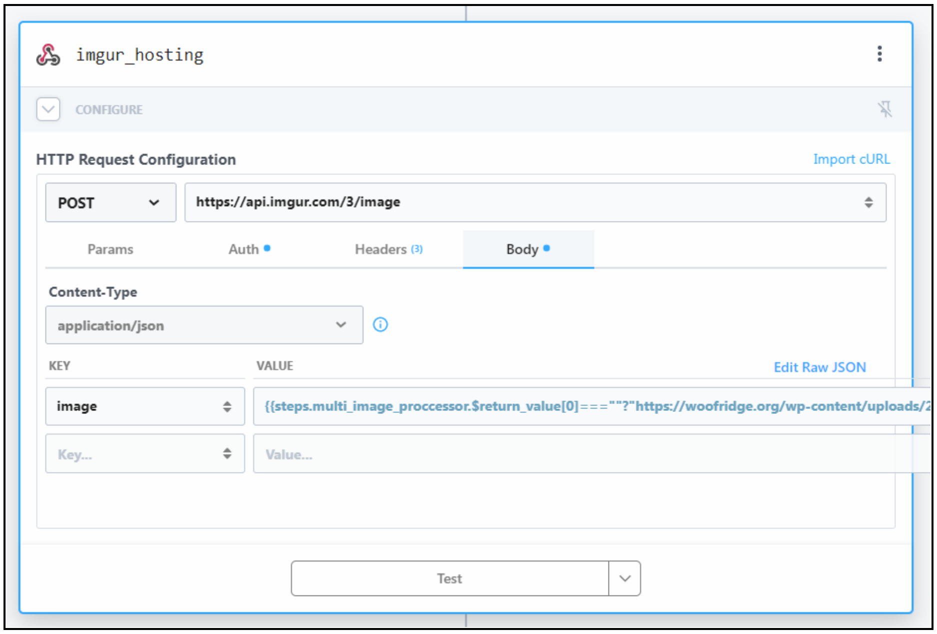
    d. Under Auth, select the Authorization Type to Bearer Token
        i. Enter token retrieved from step 20



    e. Under Body, select the Content-Type to application/json
        i. Set the key to “image”
        ii. Set the value to the text below

```
{{steps.multi_image_proccessor.$return_value[0]===""?"https://woofridge.org/wp-content/uploads/2021/04/fridge-png.png":steps.multi_image_proccessor.$return_value[0]}}
```

        iii. Replace the image link with the desired image for when the submission contains no image


imgur_hosting
CONFIGURE
HTTP Request Configuration
Import cURL
POST
https://api.imgur.com/3/image
Params
Auth
Headers (3)
Body
Content-Type
application/json
KEY
VALUE
Edit Raw JSON
image
{{steps.multi_image_proccessor.$return_value[0]===""?"https://woofridge.org/wp-content/uploads/2
Key...
Value...
Test

Updating Cell With New Imgur Link

23. Add a new step
24. Select Node as the source
    a. Select Run Node code
    b. Name the step “url_cell_finder”
    c. Copy and paste the code below

```
export default defineComponent({
 async run({ steps, $ }) {
  // Return data to use it in future steps
  let targetCell = "G"+steps.trigger.event.rowNumber;
  return targetCell
 },
})
```

    d. Replace the letter G with the column in the excel sheet that contains the image links (skip if using our google sheets examples)
25. Add a new step
26. Select Google Sheets as the source
    a. Select Update Cell
    b. Name the step “update_cell”
    c. Fill out the information the same as before
    d. Under Cell copy and paste the text below

```
{{steps.url_cell_finder.$return_value}}
```

    e. Under Cell Number copy and paste the text below

```
{{steps.imgur_hosting.$return_value.data.link}}
```

Creating Discord Embed

27. Add a new step
28. Select Node as the source (Skip if not implementing into Discord)
    a. Select Run Node code
    b. Name the step “Embed_Generation”
    c. Copy and paste the code below

```
//Format discord embed.
export default defineComponent({
 async run({ steps, $ }) {
  let embed = [
  {
   "title": "🍎 Union-Hill Fridge Update 🍎",
   "color": 0xFFC54D,
   "description": "",
   "timestamp": new Date().toISOString(),
   "author": {},
   "image": {
    "url": (steps.imgur_hosting.$return_value.data.link)
   },
   "thumbnail": {
    "url":
((steps.trigger.event.newRow[2]==="Clean"||steps.trigger.event.newRow[2]==="Sparkling")?"https://cdn.discordapp.com/emojis/1022687456174276618.webp?size=96&quality=lossless":"https://cdn.discordapp.com/emojis/1022668196093890580.webp?size=96&quality=lossless")
   },
   "footer": {},
   "fields": [
    {
     "name": "What brings you to the fridge today?",
     "value": steps.trigger.event.newRow[0]===""?"Blank":steps.trigger.event.newRow[0]
    },
```

```
      {
        "name": "How much food is in the fridge?",
        "value": steps.trigger.event.newRow[1]===""?"Blank":steps.trigger.event.newRow[1]
      },
      {
        "name": "How clean is this fridge?",
        "value": steps.trigger.event.newRow[2]===""?"Blank":steps.trigger.event.newRow[2]
      },
      {
        "name": "How cold is this fridge?",
        "value": steps.trigger.event.newRow[3]===""?"Blank":steps.trigger.event.newRow[3]
      },
      {
        "name": "Additional Notes?",
        "value": steps.trigger.event.newRow[5]===""?"Blank":steps.trigger.event.newRow[5]
      },
      {
        "name": "Submitted By:",
        "value": steps.trigger.event.newRow[7]===""?"Anonymous":steps.trigger.event.newRow[7]
      }
    ]
   }
  ];
  return embed
 },
})
```

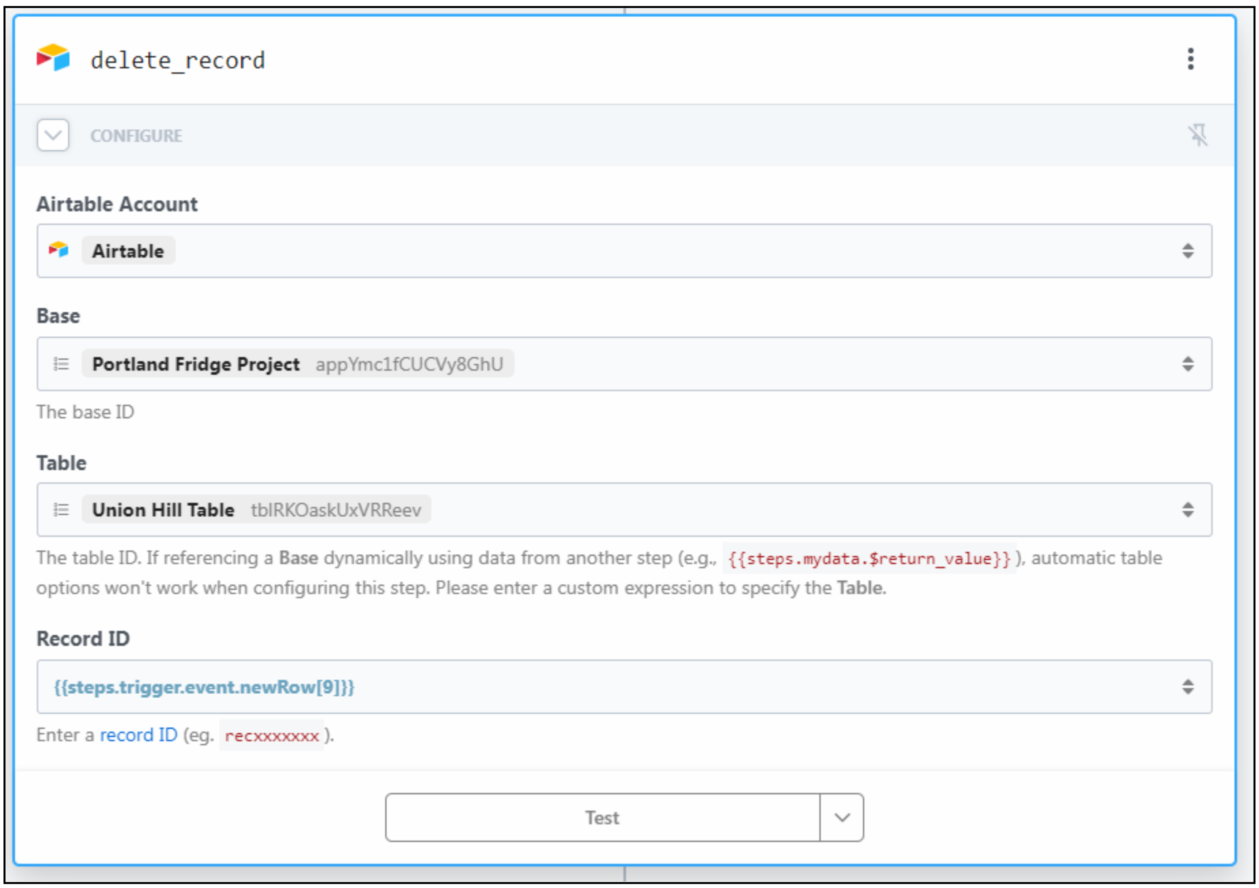
d. Replace image links if necessary
e. Replace the title with name of fridge
f. Replace the color with the desired embed hex color.
g. May edit any of the "name" fields if you want the embed to display different text
h. Delete any { "name". "value"} sections that you do not want displayed

Deleting Entry From Airtable

29. Add a new step
30. Select Airtable
    a. Select Delete Record
    b. Name the step “delete_record”
    c. Fill out the information like in step 14
    d. For Record ID copy and paste the text below

```
{{steps.trigger.event.newRow[9]}}
```

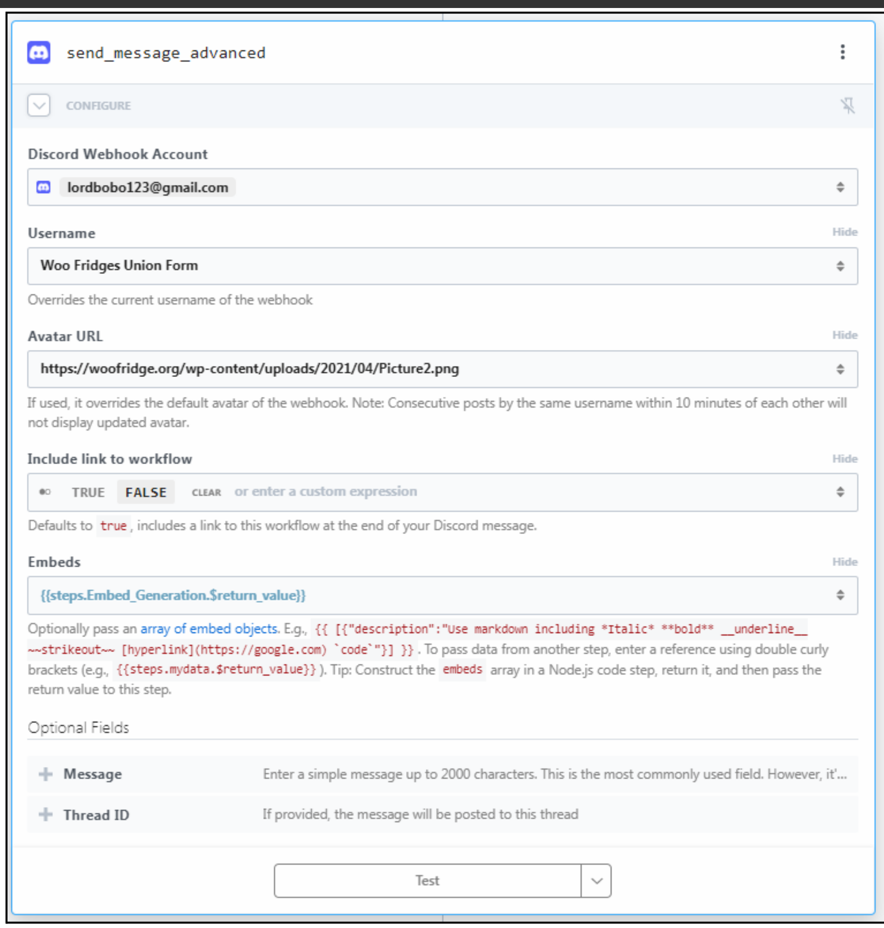
    e. Replace the number 9 with the corresponding column number in excel -1 that contains the Airtable recordID (Skip if using our google sheet examples)



Sending Out the Discord Message

31. Add new step (SKIP THIS AND THE NEXT STEP IF YOU ARE NOT DOING DISCORD EMBED MESSAGE)
32. Select Discord Webhook
    a. Select Send Message (Advanced)
    b. Connect an account that has administrator privileges in the targeted Discord server
    c. Under the Optional Field, click the “+” icon for Username, Avatar URL, Include link to workflow and Embeds
    d. Under Username type the desired name for the Discord Bot
    e. Under Avatar URL type in an image url for the Discord Bot avatar
    f. Under Include link to workflow, set it to False
    g. Under Embed copy and paste the text below

```
{{steps.Embed_Generation.$return_value}}
```



Deploying the Pipedream

33. Once everything is complete click Deploy in the top right of the screen
34. Once on deployed, head to the settings tab
    a. Set the Execution Controls Timeout to 120 seconds.
    b. Click Save
35. That’s It! Everything should be up and running!