



Lior Talmor

Process Automation Engineer



LIO

# WP REST API

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Process Automation Engineer

(Guesty)



# API

# Application Programming Interface



# UI vs API

**Much like Users need an Interface to interact with the application (UI) so do Automations need an interface.**

**ממש כמו שמשתמשים צריכים ממשק משתמש שבו הם יכולים לפעול ולהשתמש באפליקציה, כך גם אוטומציות זקוקות לממשק.**



https://liortalmor.com/wp-json/wp/v2/posts/1792

## API

```

{
  "statusCode": 200,
  "data": {
    "id": 1792,
    "date": "2018-11-03T03:55:09",
    "date_gmt": "2018-11-03T03:55:09",
    "guid": {
      "rendered": "https://wpthemetestdata.wordpress.com/?p=1752"
    },
    "modified": "2018-11-03T03:55:09",
    "modified_gmt": "2018-11-03T03:55:09",
    "slug": "block-gallery",
    "status": "publish",
    "type": "post",
    "link": "https://liortalmor.com/block-gallery/",
    "title": {
      "rendered": "Block: Gallery"
    },
    "content": {
      "rendered": "<p>Gallery blocks have two settings: the number of columns you select, and whether the images should be cropped. The default number of columns is three, and the maximum number of columns is six. Below is a three column gallery at full width, with cropped images. Some more text for taking up space. A two column gallery, [Rhellip;]</p>\n",
      "protected": false
    },
    "author": 1,
    "featured_media": 771,
    "comment_status": "open",
    "ping_status": "open",
    "sticky": false,
    "template": "",
    "format": "standard",
    "meta": [],
    "categories": [
      10
    ],
    "tags": [
      198,
      197,
      105,
      112
    ],
    "_links": {

```

https://liortalmor.com/block-gallery/

## UI



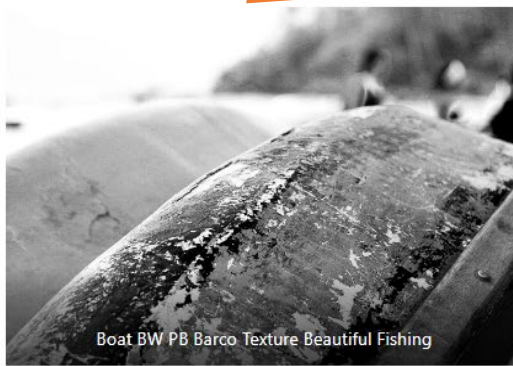
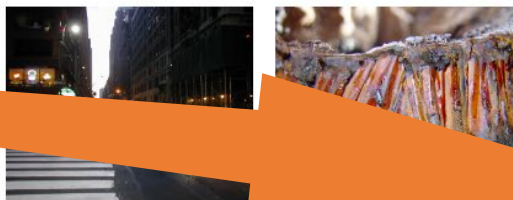
(gallery caption) 3 column, full width, cropped, linked to attachment pages

Some more text for taking up space.

A two column gallery, aligned to the left, linked to media file.

In the editor, the image captions can be edited directly by clicking on the text.

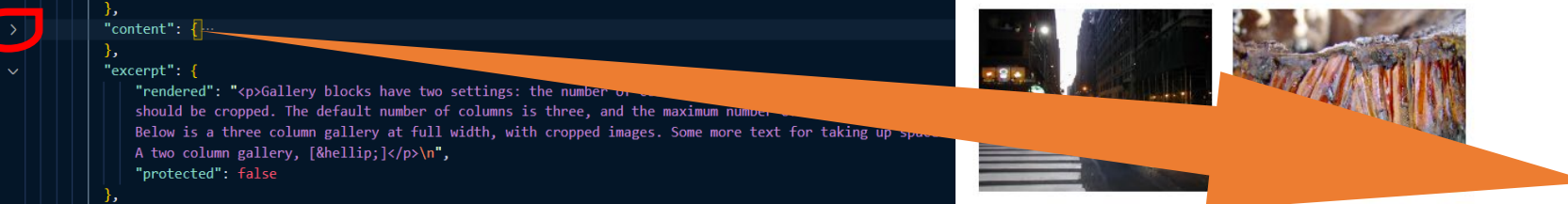
If the number of images cannot be divided into the number of columns you have selected, the default is to have the last image(s) automatically stretch to the width of your gallery.



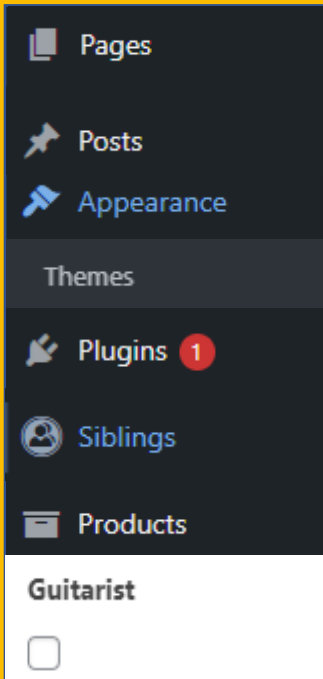
```

"content": {
  "rendered": "<p>Gallery blocks have two settings: the number of columns you select, and whether the images should be cropped. The default number of columns is three, and the maximum number of columns is six. Below is a three column gallery at full width, with cropped images. Some more text for taking up space. A two column gallery, [Rhellip;]</p>\n",
  "protected": false
},
"author": 1,
"featured_media": 771,
"comment_status": "open",
"ping_status": "open",
"sticky": false,
"template": "",
"format": "standard",
"meta": [],
"categories": [
  10
],
"tags": [
  198,
  197,
  105,
  112
],
}_links": {

```



# Why We Love WordPress



**Pages**

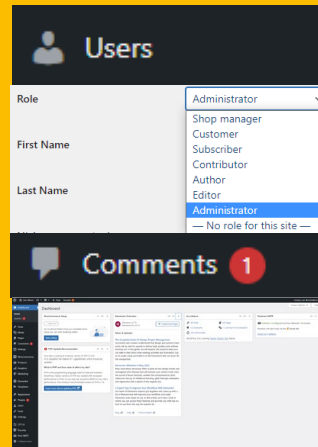
**Posts**

**Themes**

**Plugins**

**Custom Post Types**

**Custom Fields**



**Users**

**Roles**

**Comments**

**Admin Dashboard**

**HTML, CSS, JS**

**PHP**

**Probably The First Significant  
Web No-Code / Low-Code Platform**



# REST

# Representational

# State

# Transfer



# REST API

Every time we visit a website, we GET a Representation of the current state of data within the URL.

Could be visual (UI) or programmatic (API)...

**בכל פעם שאנחנו מבקרים באפליקציה, אנחנו מקבלים ייצוג מסוים של מצב הנתונים העדכני בה. יכול להיות ויזואלי / גראפי (UI) או נתוני (API)...**



# WP REST API

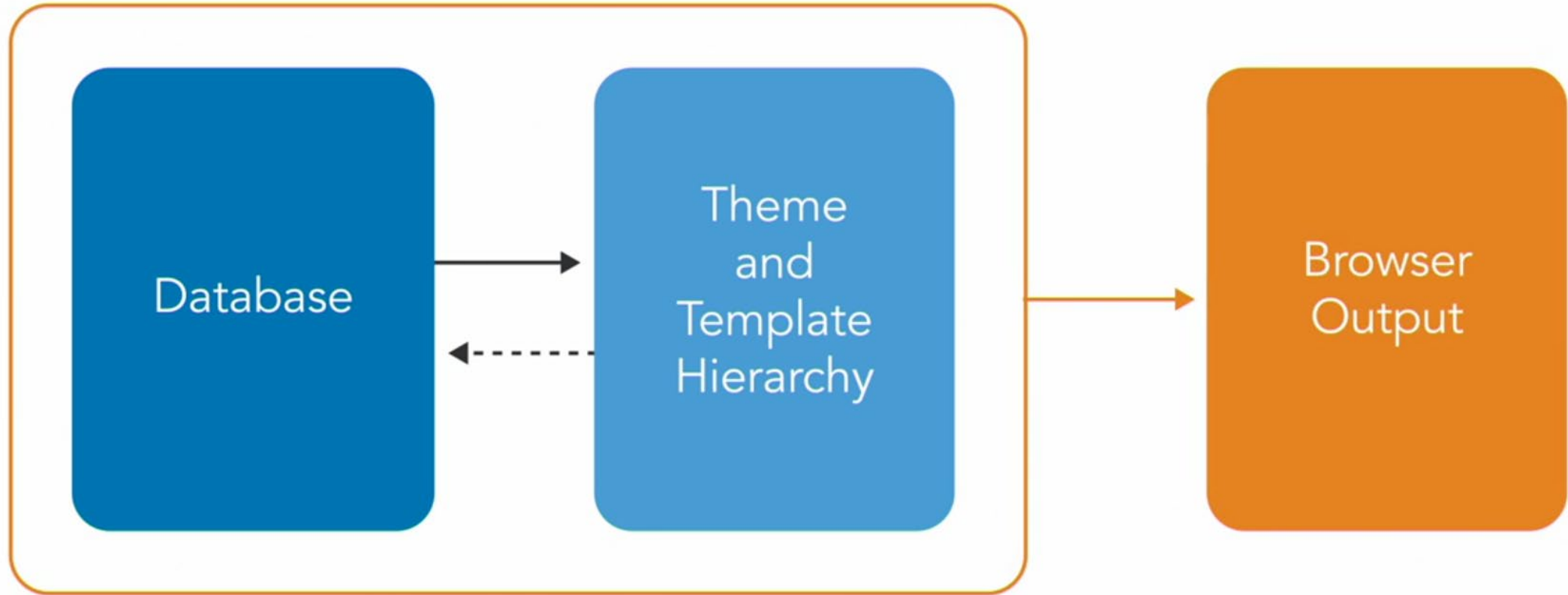
Allows access to the WordPress Data without going through any visual WordPress interface

**העברת ייצוג (גרפי או נתוני) של המידע העדכני באתר, מבלי לעבור בממשק המשתמש של האתר**

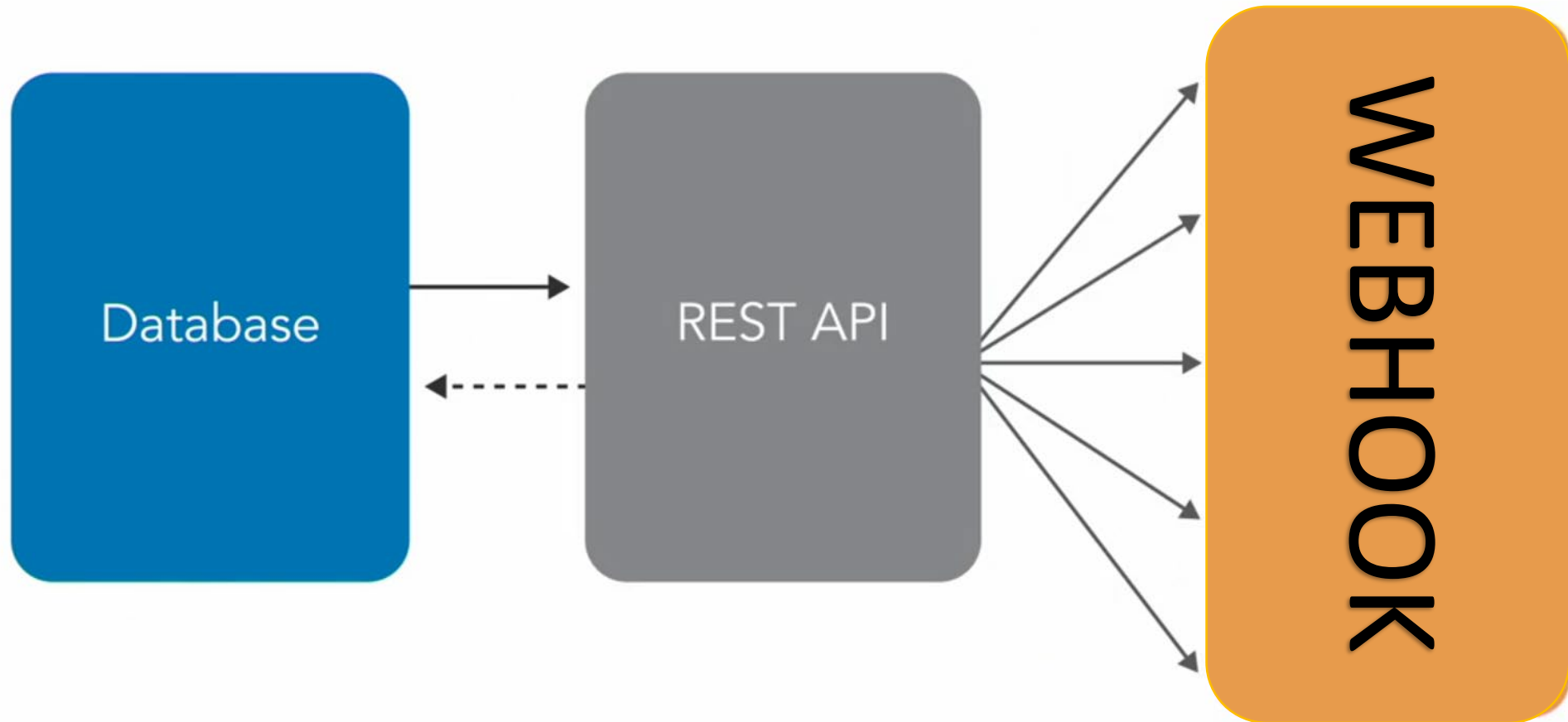




# How WordPress Works



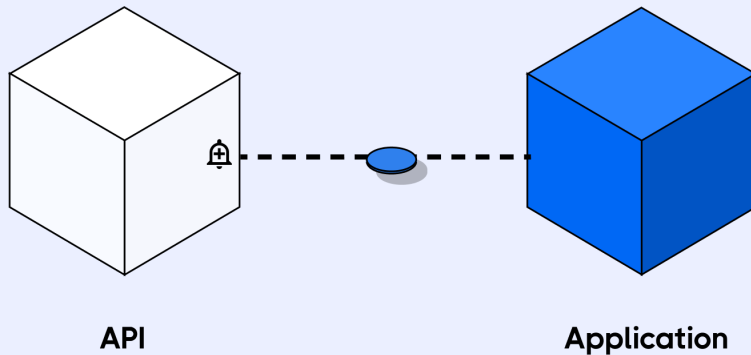
# WordPress REST API



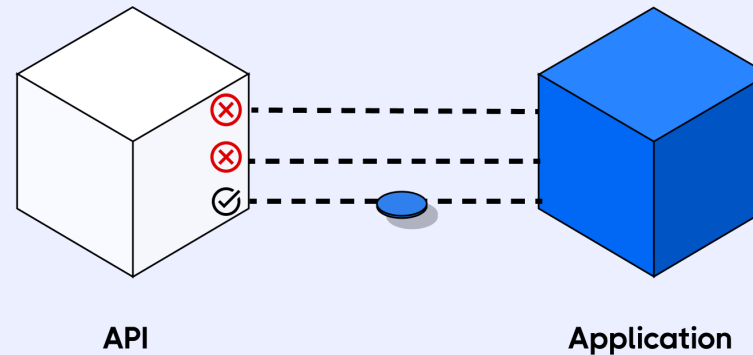
# WEBHOOKS

## New Events

### Webhooks

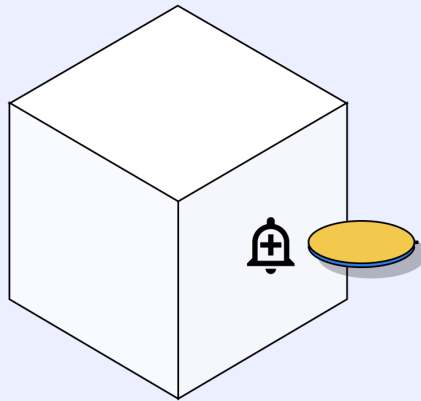


### Polling



# WEBHOOKS

## Webhooks



Event Triggering

**EVENT**

Request Headers

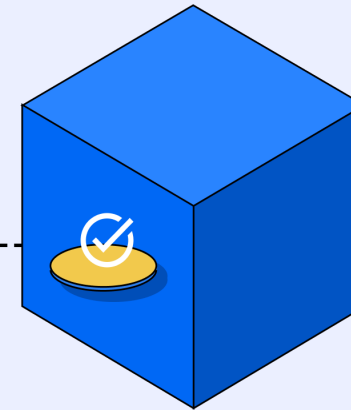
Content-Type	application/json
--------------	------------------

[VIEW ALL 8 HEADERS](#)

Request Body

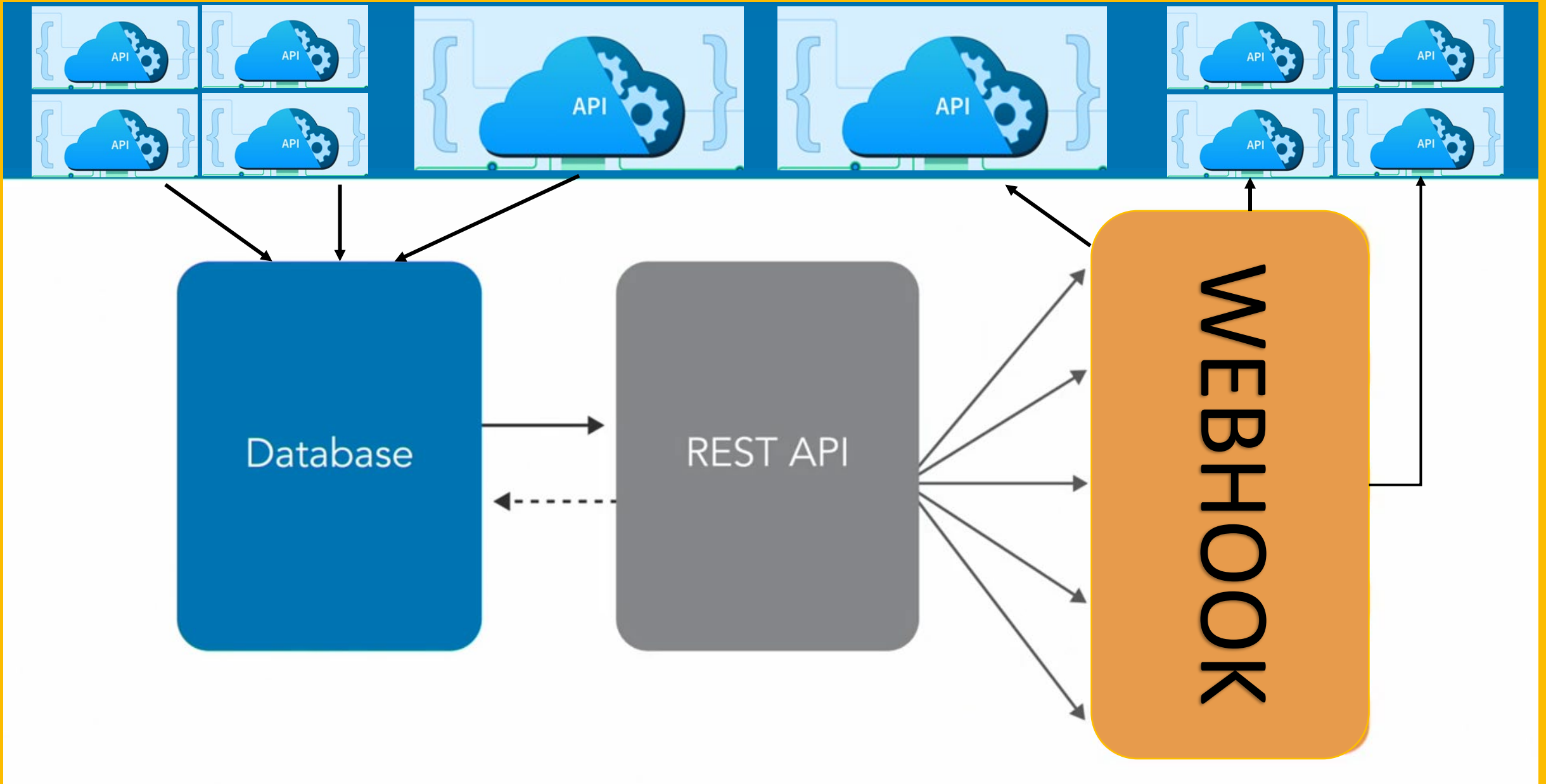
```
1  {
2    "id": "evt_1FnC1B1293mdK19AmdAi",
3    "object": "event",
4    "api_version": "2018-05-21",
5    "created": 1575761543,
6    "data": {
```

Request with Payload



Event Processing





# Some more Abbreviations

## CRUD

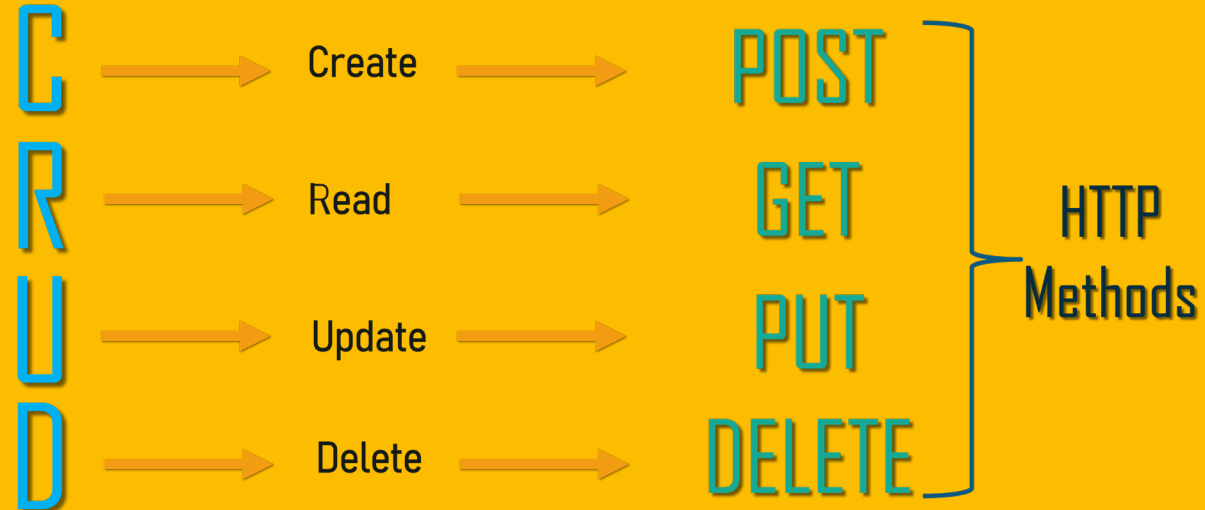
Create, Read, Update & Delete



# Some more Abbreviations

## HTTP (Request)

POST, GET, PUT, DELETE



# Some more Abbreviations

## JSON

### Javascript Object Notation

Used for data transmission with Key-Value architecture

```
1 {
2   "string": "Hi",
3   "number": 2.5,
4   "boolean": true,
5   "null": null,
6   "object": { "name": "Kyle", "age": 24 },
7   "array": ["Hello", 5, false, null, { "key": "value", "number": 6 }],
8   "arrayOfObjects": [
9     { "name": "Jerry", "age": 28 },
10    { "name": "Sally", "age": 26 }
11  ]
12 }
13
```





# Let's get to Business

{{base\_url}} = https://example.com/wp-json

GET {{base\_url}}/wp/v2/

- Posts
- Pages
- Users ?

GET {{base\_url}}/wc/v3/

- Products

POST {{base\_url}}//wc/v3/

- Products ?

[https://example.com/wp-json/wp/v2/posts?page=1&per\\_page=100](https://example.com/wp-json/wp/v2/posts?page=1&per_page=100)

<https://example.com/wp-json/wp/v2/pages>

[https://example.com/wp-json/wc/v3/posts?page=1&per\\_page=100](https://example.com/wp-json/wc/v3/posts?page=1&per_page=100)



# WHAT?! But... How???

## Authentication

Let me show you a little trick...

WP

**Application Passwords**

Application passwords allow authentication via non-interactive systems.

New Application Password Name

Required to create an Application Password, but not to update the user.

[Add New Application Password](#)

WC

Pages

Comments 1

Siblings

Automator

WooCommerce

General Products Shipping

Page setup | REST API | Webhooks | Legacy

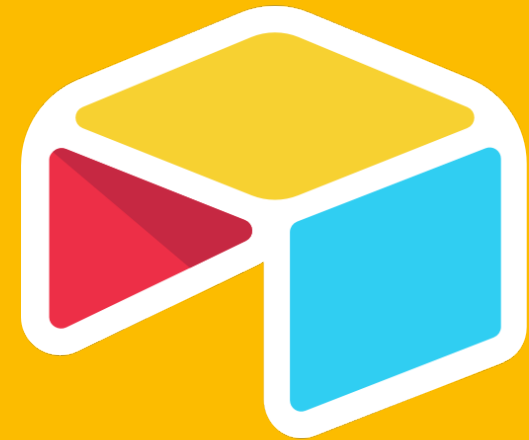
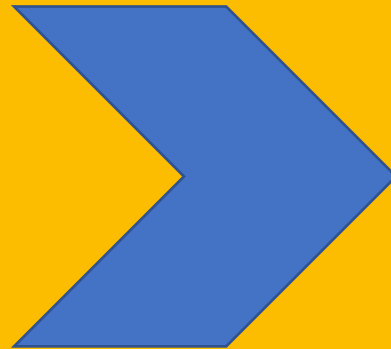
REST API [Add key](#)

Bulk actions ▼ [Apply](#)



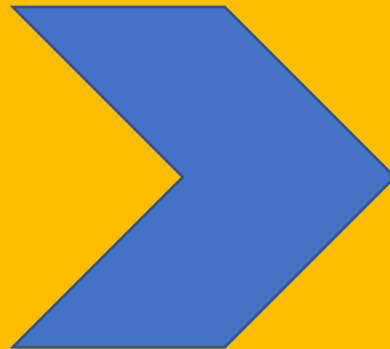
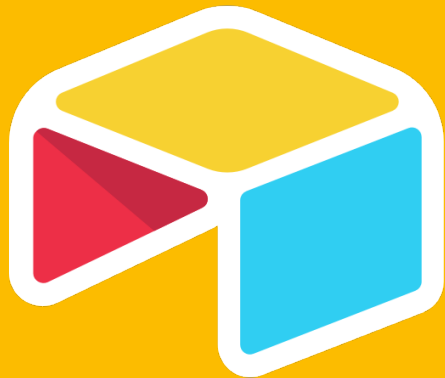
# So... What can we do with this?

- READ Posts / Products <<>> Send to Airtable
  - Read Woocommerce Products, update Airtable



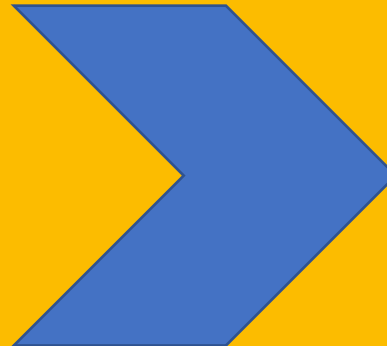
# So... What can we do with this?

- Edit On Airtable <<>> Send to Integromat Webhook
  - Edit Product Price on Airtable, Trigger Automation



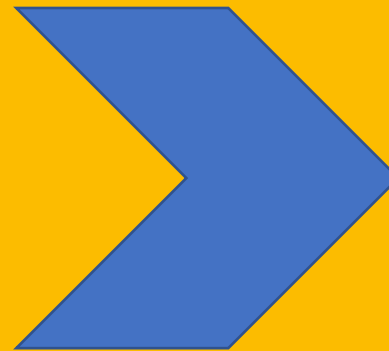
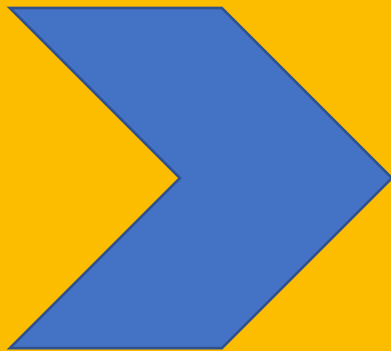
# So... What can we do with this?

- Receive using Integromat <<>> Update WordPress REST API
  - Send HTTP Request incl. Auth6



# So... What can we do with this?

- Trigger Uncanny Automator Workflow <<>> Send to Zapier Webhook
- Receive using Zapier >> Filter Product >> .....



# UNCANNY AUTOMATOR WORDPRESS PLUGIN

Edit recipe [Add new](#)

Meetup#4

## Triggers



WordPress

A user updates

Post: Any product

Live

[Add another trigger](#)

## Actions



Zapier

Send data to Zapier

webhook

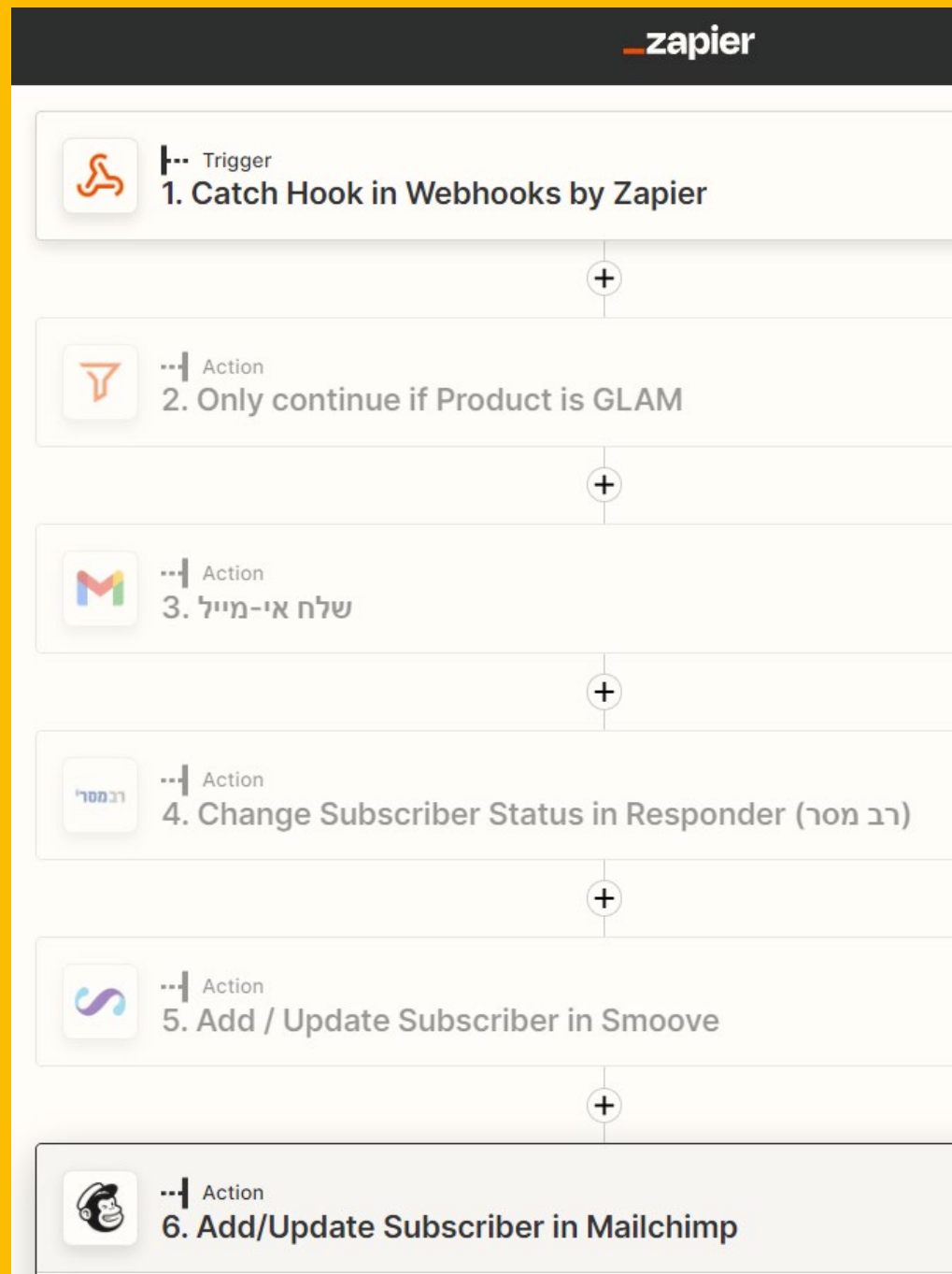
Draft

[Add another action](#)

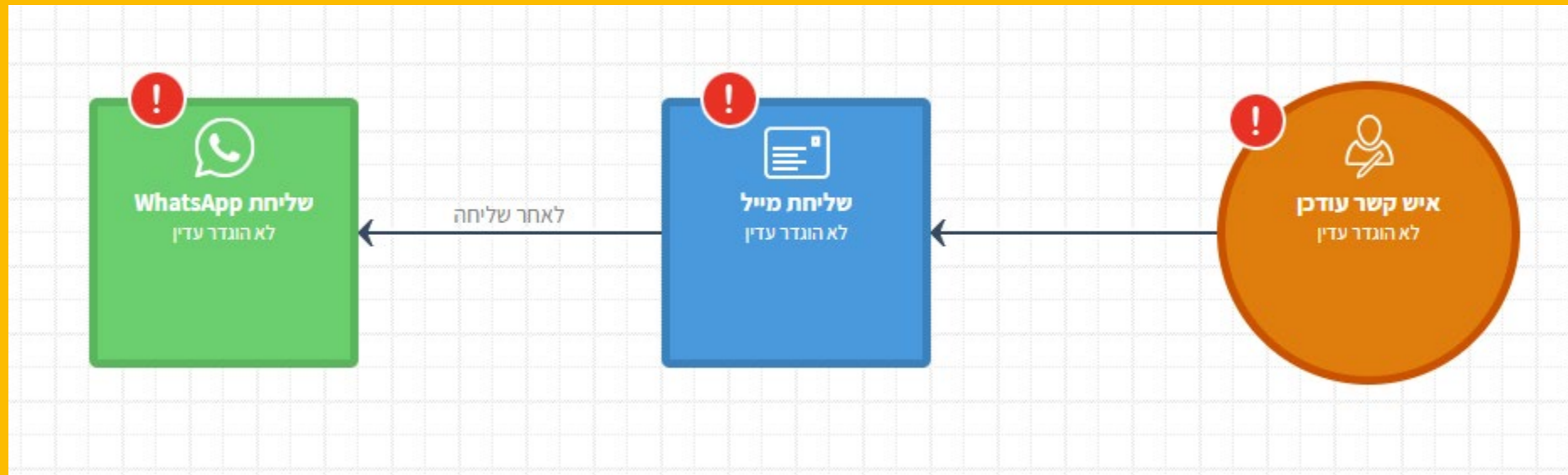
Redirect when all triggers are completed

## Author

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Lior Talmor

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LIO

# THANK YOU

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Process Automation Engineer

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