

Entity Relationship Diagram

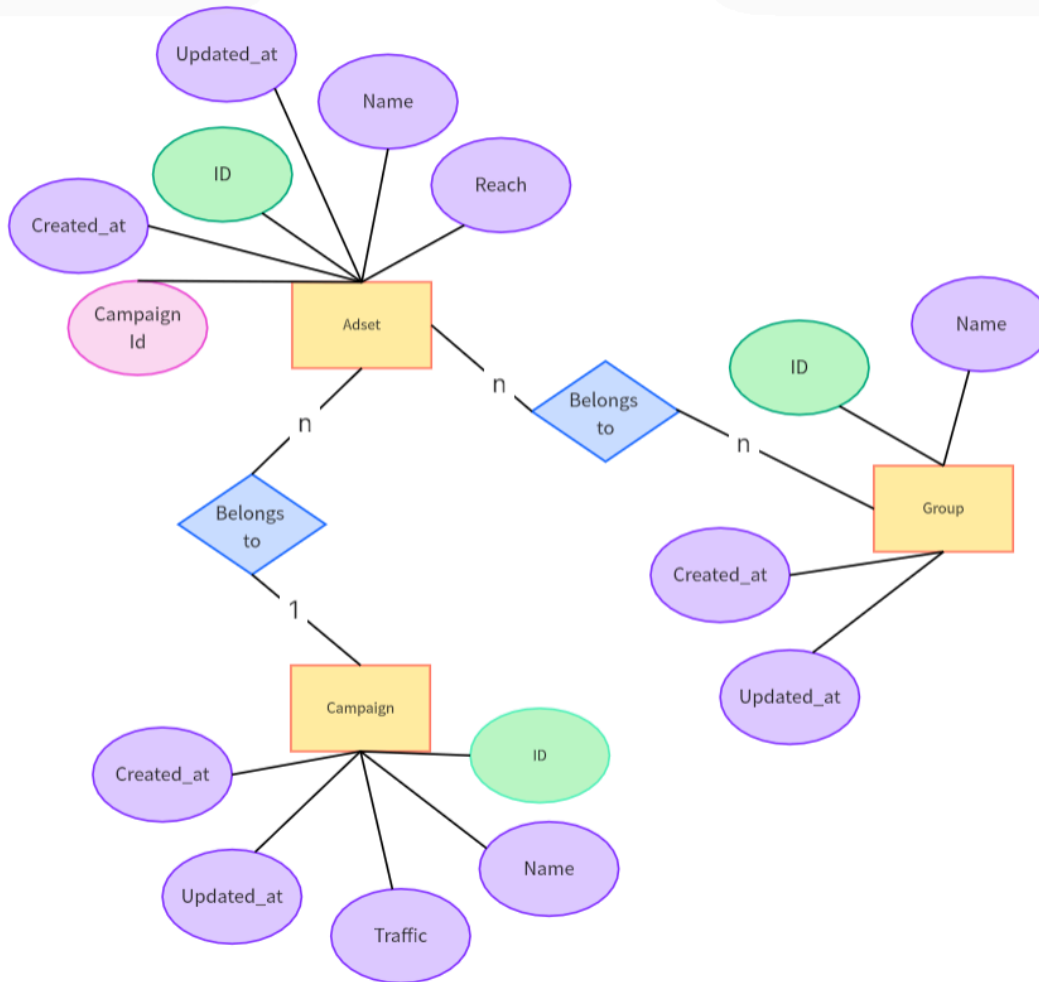


Table Data Screenshots

Table: Groups

	group_id [PK] integer	group_name character varying (255)	created_at timestamp with time zone	updated_at timestamp with time zone
1	1	High-Priority Ads	2025-08-14 03:15:08.034108+05:30	[null]
2	2	Seasonal Ads	2025-08-14 03:15:08.034108+05:30	[null]

Table: Adsets

	adset_id [PK] integer	adset_name character varying (255)	reach character varying (255)	created_at timestamp with time zone	updated_at timestamp with time zone	campaign_id integer
1	1	Adset A	Impressions	2025-08-14 03:15:08.00882+05:30	[null]	1
2	2	Adset B	Reach	2025-08-14 03:15:08.00882+05:30	[null]	1
3	3	Adset C	Clicks	2025-08-14 03:15:08.00882+05:30	[null]	2

Table: Campaigns

	campaign_id [PK] integer	campaign_name character varying (255)	traffic character varying (255)	created_at timestamp with time zone	updated_at timestamp with time zone
1	1	Spring Campaign	Awareness	2025-08-14 03:15:07.966649+05:30	[null]
2	2	Summer Sale	Traffic	2025-08-14 03:15:07.966649+05:30	[null]

Table: Adset_groups

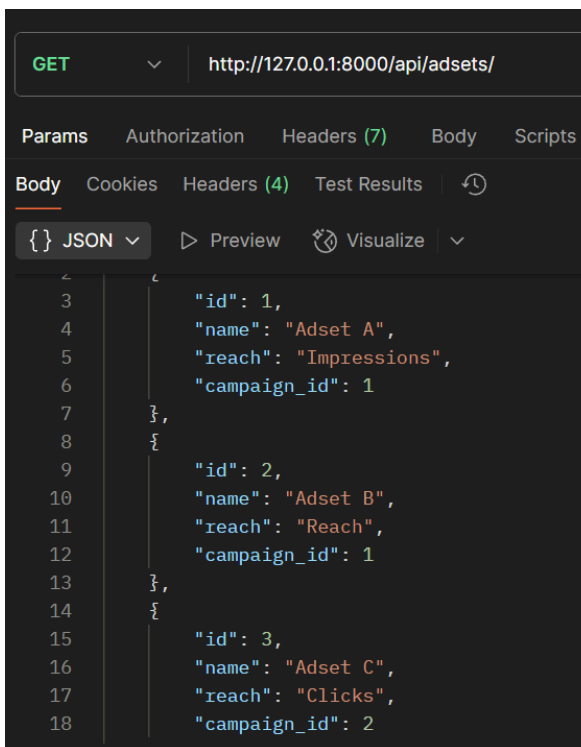
	adset_id [PK] integer	group_id [PK] integer
1	2	1
2	3	1

Documentation for API Endpoints

1. Retrieve all Adsets

This endpoint retrieves a list of all adsets in the database.

- **Endpoint:** GET /adsets/
- **Description:** Fetches a list of all adsets, returning their details such as ID, name, status, and associated campaign and group IDs.
- **Request:**
 - **Method:** GET
 - **Parameters:** None
- **Response:**
 - **Success (200 OK):** A JSON array containing all adsets. Each adset object conforms to the AdsetSchema.



The screenshot shows a REST client interface with the following details:

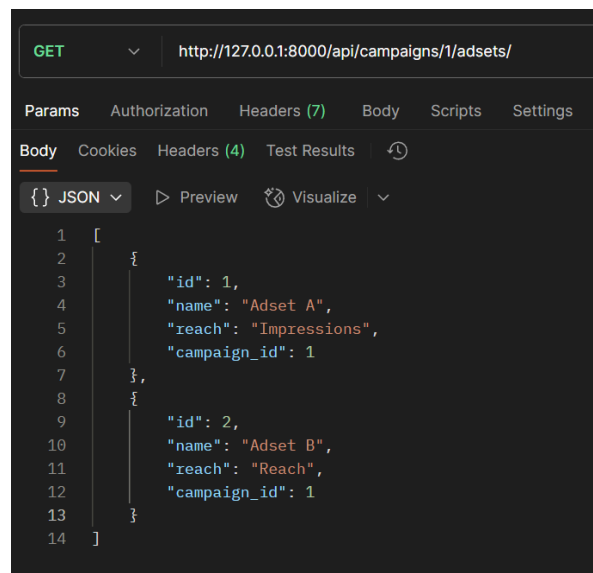
- Method:** GET
- URL:** http://127.0.0.1:8000/api/adsets/
- Params:** (empty)
- Authorization:** (empty)
- Headers (7):** (empty)
- Body:** (empty)
- Scripts:** (empty)
- Body Tab:** Selected, showing a JSON response.
- JSON Response:**

```
{
  "id": 1,
  "name": "Adset A",
  "reach": "Impressions",
  "campaign_id": 1
},
{
  "id": 2,
  "name": "Adset B",
  "reach": "Reach",
  "campaign_id": 1
},
{
  "id": 3,
  "name": "Adset C",
  "reach": "Clicks",
  "campaign_id": 2
}
```

2. Retrieve Adsets by Campaign

This endpoint retrieves all adsets belonging to a specific campaign.

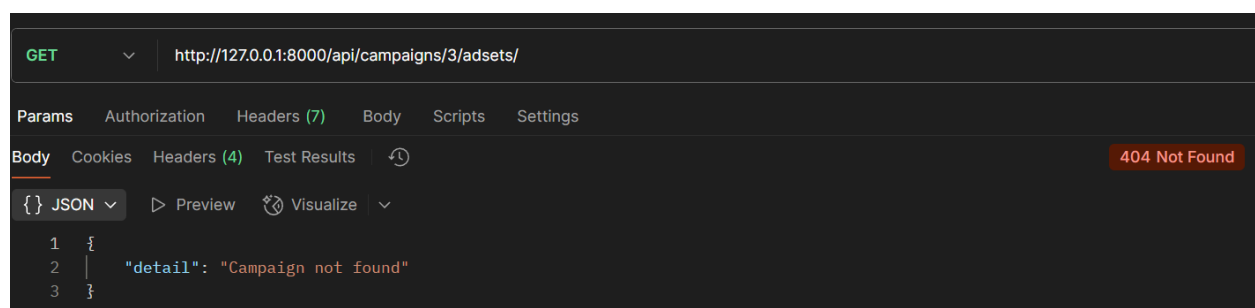
- **Endpoint:** GET /campaigns/{campaign_id}/adsets/
- **Description:** Retrieves a list of adsets associated with a given campaign_id.
- **Request:**
 - **Method:** GET
 - **Parameters:**
 - Campaign_id
- **Response:**
 - **Success (200 OK):** A JSON array of adsets that belong to the specified campaign. Each adset object conforms to the AdsetSchema.
 - **Error (404 Not Found):** If the campaign_id doesn't exist or has no adsets associated with it. The response will include a detail message: "Campaign not found".



```
GET http://127.0.0.1:8000/api/campaigns/1/adsets/

Params Authorization Headers (7) Body Scripts Settings
Body Cookies Headers (4) Test Results ↺
{} JSON Preview Visualize

1  [
2    {
3      "id": 1,
4      "name": "Adset A",
5      "reach": "Impressions",
6      "campaign_id": 1
7    },
8    {
9      "id": 2,
10     "name": "Adset B",
11     "reach": "Reach",
12     "campaign_id": 1
13   }
14 ]
```



```
GET http://127.0.0.1:8000/api/campaigns/3/adsets/

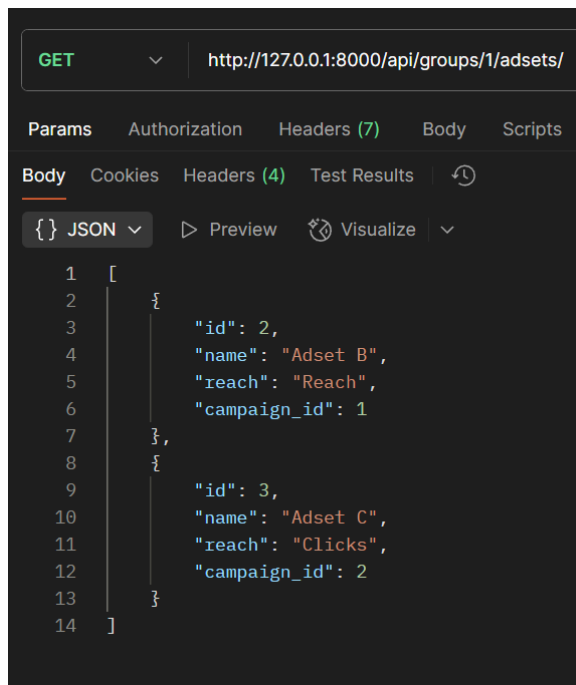
Params Authorization Headers (7) Body Scripts Settings
Body Cookies Headers (4) Test Results ↺ 404 Not Found
{} JSON Preview Visualize

1  {
2    "detail": "Campaign not found"
3  }
```

3. Retrieve Adsets by Group

This endpoint retrieves all adsets belonging to a specific group.

- **Endpoint:** GET /groups/{group_id}/adsets/
- **Description:** Retrieves a list of adsets associated with a given group_id.
- **Request:**
 - **Method:** GET
 - **Parameters:**
 - group_id
- **Response:**
 - **Success (200 OK):** A JSON array of adsets belonging to the specified group. Each adset object conforms to the AdsetSchema.
 - **Error (404 Not Found):** If the group_id doesn't exist or has no adsets associated with it. The response will include a detail message: "Group not found".



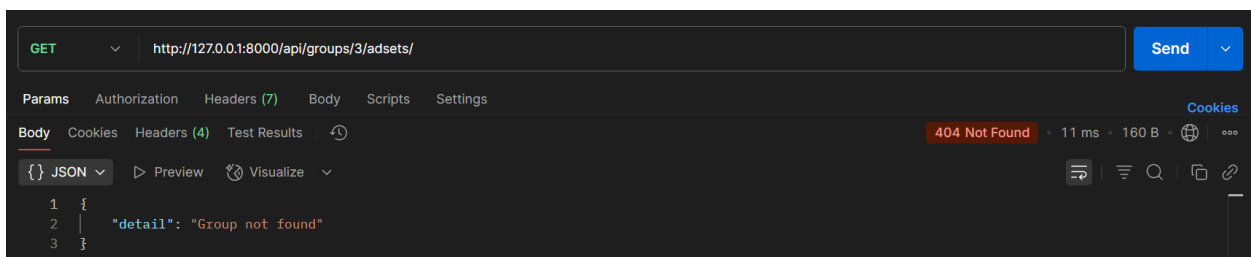
```
GET http://127.0.0.1:8000/api/groups/1/adsets/

Params  Authorization  Headers (7)  Body  Scripts

Body  Cookies  Headers (4)  Test Results  ↻

{} JSON  ▸ Preview  🔍 Visualize  ▾

1  [
2    {
3      "id": 2,
4      "name": "Adset B",
5      "reach": "Reach",
6      "campaign_id": 1
7    },
8    {
9      "id": 3,
10     "name": "Adset C",
11     "reach": "Clicks",
12     "campaign_id": 2
13   }
14 ]
```



```
GET http://127.0.0.1:8000/api/groups/3/adsets/ Send ▾

Params  Authorization  Headers (7)  Body  Scripts  Settings

Body  Cookies  Headers (4)  Test Results  ↻  404 Not Found  • 11 ms • 160 B • 🌐 ⋮

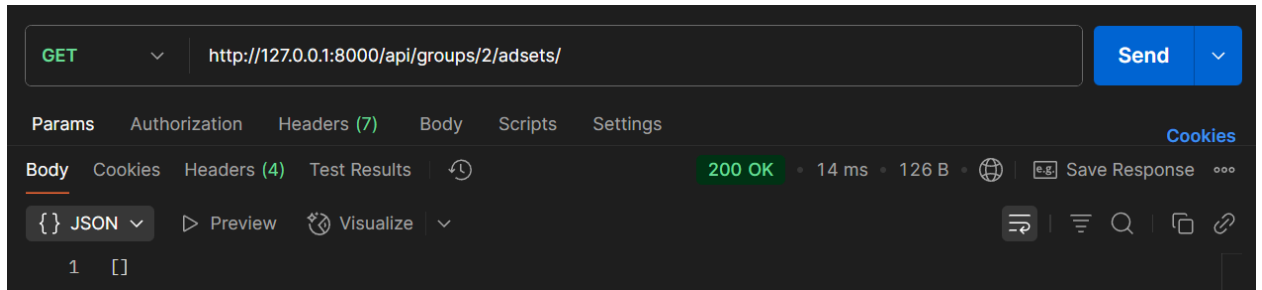
{} JSON  ▸ Preview  🔍 Visualize  ▾

1  {
2    "detail": "Group not found"
3  }
```

Edge Cases

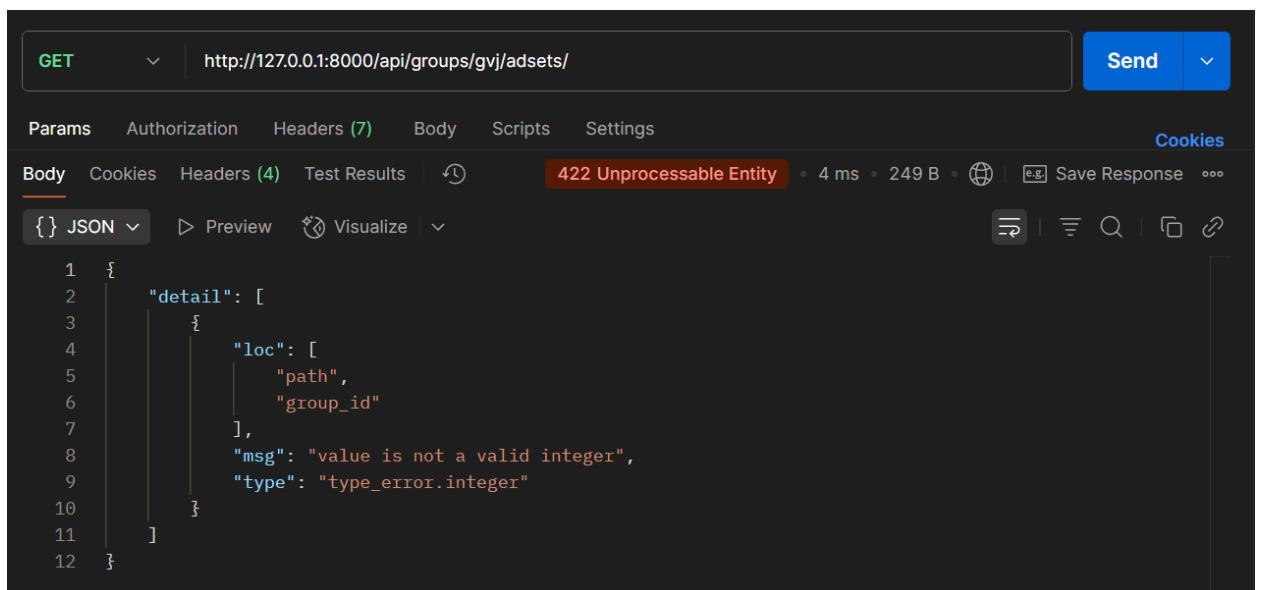
1. Empty Adset or campaign/group:

There can be cases where the requested group or campaign has no ad sets that belong to them. In that case, an empty list is returned.



2. Non integer parameters:

If the parameter in the api called is a non integer then the server puts out a 422 Error (Unprocessable Entity), meaning the given parameter has a semantic error and its a request error.



3. Missing parameters:

If the parameters are missing, it gives a 404 error as the request made does not exist without the parameters.

