# Restful API DEV - API Specification

## Base URL

https://api.restful-api.dev

## Endpoints

## 1. Get Object by ID

* **Method:** GET
* **Endpoint:** /objects/{id}
* **Description:** Fetches a single object by its unique ID.
* **URL Parameters:**
  + id (string) — The unique identifier of the object to retrieve.
* **Request Body:** None
* **Response:**
  + **200 OK:** Returns the object data in JSON format.
  + **404 Not Found:** If the object with specified ID does not exist.

**Sample Response:**

json

{

"id": "4",

"name": "Apple iPhone 11, 64GB",

"data": {

"price": 389.99,

"color": "Purple"

}

}

## 2. Create a New Object

* **Method:** POST
* **Endpoint:** /objects
* **Description:** Creates a new object with a customizable set of attributes.
* **Request Body:** JSON object with the following structure:

json

{

"name": "Apple iPad Air",

"data": {

"Generation": "4th",

"Price": "519.99",

"Capacity": "256 GB"

}

}

* **Response:**
  + **201 Created:** Returns the created object including the generated ID and creation timestamp.

**Sample Response:**

json

{

"id": "ff8081819782e69e01996cf0c9cd6d20",

"name": "Apple iPad Air",

"createdAt": "2025-09-21T15:42:23.693+00:00",

"data": {

"Generation": "4th",

"Price": "519.99",

"Capacity": "256 GB"

}

}

## 3. Update an Existing Object by ID

* **Method:** PUT
* **Endpoint:** /objects/{id}
* **Description:** Updates an object by providing a full new representation of the object. Some IDs may be reserved and cannot be updated (e.g., id=6).
* **URL Parameters:**
  + id (string) — The unique identifier of the object to update.
* **Request Body:** JSON object with the following structure:

json

{

"name": "Apple AirPods",

"data": {

"color": "white",

"generation": "3rd",

"price": 135

}

}

* **Response:**
  + **200 OK:** Returns the updated object.
  + **400 Bad Request:** If trying to update a reserved ID or invalid data.

**Note:** Some object IDs are reserved and cannot be overridden. In that case, create a new object via POST and update the new object's ID.

## Data Model

## Object

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| id | string | Unique identifier of the object |
| name | string | Name/title of the object |
| data | object | Custom JSON data with flexible attributes |
| createdAt | string | ISO timestamp when the object was created |
| updatedAt | string | ISO timestamp when the object was last updated |

## Data Attribute Object

* The data field is a JSON object with flexible key-value pairs.
* The keys and values can be of various data types (string, number, etc.) depending on the custom data for each object.

## Usage Notes

* Use the GET endpoint to fetch existing objects by their ID.
* Use the POST endpoint to create new objects with your own set of attributes.
* Use the PUT endpoint to update existing objects except for reserved IDs which are protected.
* Reserved IDs cannot be updated and will return an error if attempted.
* Every POST request creates a new unique object with a new ID.