Assignment: CRUD API Automation using RestAssured Framework

Task

You have to **automate complete CRUD** (Create, Read (optional), Update, Delete) operations using the below API:

Base URL https://api.restful-api.dev/objects

You can download the framework code from last class **API Framework Development Part 4**

Framework Expectations

Write tests using your existing **framework structure**
Use **BaseTest** / **Utils** / **Specifications** wherever applicable
Use proper **logging** and **reporting**

Submission

Once your tests are ready:
Push code to your GitHub
Share GitHub repo link in assignment submission channel

Important Notes

Do not hardcode `id` — capture it dynamically
Use assertions for all fields mentioned
Follow clean code practices

Steps to Follow

Create Object (POST request)

Request

Endpoint: https://api.restful-api.dev/objects
Method: POST
Body:

```
{
  "name": "Apple MacBook Pro 16",
  "data": {
    "year": 2019,
    "price": 1849.99,
    "CPU model": "Intel Core i9",
    "Hard disk size": "1 TB"
  }
}
```

Expected Response

- **Status Code:** 200

- **Body Sample:**

```
{
  "id": "7",
  "name": "Apple MacBook Pro 16",
  "data": {
    "year": 2019,
    "price": 1849.99,
    "CPU model": "Intel Core i9",
    "Hard disk size": "1 TB"
  },
  "createdAt": "2022-11-21T20:06:23.986Z"
}
```

What to do in your test

- Send POST request

- **Capture** `id` field from response and store it (we will use in next steps)

- **Add Assertion** to verify:

  ○ Status Code is `200`

  ○ `createdAt` field is not null or empty

Update Object (PUT request)

Request

Endpoint: `https://api.restful-api.dev/objects/{id}`
(Replace `{id}` with the `id` you captured from POST response)

Method: PUT
Body:

```
{
  "name": "Apple MacBook Pro 16",
  "data": {
    "year": 2019,
    "price": 2049.99,
    "CPU model": "Intel Core i9",
    "Hard disk size": "1 TB",
    "color": "silver"
  }
}
```

Expected Response

- **Status Code:** 200

- **Body Sample:**

```json
{
  "id": "7",
  "name": "Apple MacBook Pro 16",
  "data": {
    "year": 2019,
    "price": 2049.99,
    "CPU model": "Intel Core i9",
    "Hard disk size": "1 TB",
    "color": "silver"
  },
  "updatedAt": "2022-12-25T21:08:41.986Z"
}
```

What to do in your test

- Send PUT request using captured `id`

- Add Assertions:

    - Status Code is `200`

    - Response field `price` is `2049.99`

    - Field `color` is `silver`

    - `updatedAt` field is present and not empty

Delete Object (DELETE request)

📩 Request

Endpoint: `https://api.restful-api.dev/objects/{id}`
(Use same `id` you captured earlier)

Method: DELETE

Expected Response

- **Status Code:** 200

- **Body Sample:**


```
{
  "message": "Object with id = 7, has been deleted."
}
```


What to do in your test

- Send DELETE request using `id`

- Add Assertions:

  - Status Code is 200

  - `message` field confirms object is deleted and shows correct `id`