

Part 2: API Testing via Postman

BASE URL

<https://jsonplaceholder.typicode.com>

1. GET /users – Retrieve All Users

Test Case ID: API-TC-01

Title: Retrieve all users successfully

Request Details

- **Method:** GET
- **URL:** <https://jsonplaceholder.typicode.com/users>
- **Headers:**
 - Content-Type: application/json
- **Body:** None

Response Details

- **Status Code:** 200 OK
- **Headers:**
 - Content-Type: application/json; charset=utf-8
- **Response Body:**

```
[
  {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server neural-net",
      "bs": "harness real-time e-markets"
    }
  },
  {
    "id": 2,
    "name": "Ervin Howell",
    "username": "Antonette",
    "email": "Shanna@melissa.tv",
    "address": {
      "street": "Victor Plains",
      "suite": "Suite 879",
      "city": "Wisokyburgh",
      "zipcode": "90566-7771",
      "geo": {
        "lat": "-43.9509",
        "lng": "-34.4618"
      }
    },
    "phone": "010-692-6593 x09125",
    "website": "anastasia.net",
  }
]
```

```
    "company": {
      "name": "Deckow-Crist",
      "catchPhrase": "Proactive didactic contingency",
      "bs": "synergize scalable supply-chains"
    }
  },
  {
    "id": 3,
    "name": "Clementine Bauch",
    "username": "Samantha",
    "email": "Nathan@yesenia.net",
    "address": {
      "street": "Douglas Extension",
      "suite": "Suite 847",
      "city": "McKenziehaven",
      "zipcode": "59590-4157",
      "geo": {
        "lat": "-68.6102",
        "lng": "-47.0653"
      }
    },
    "phone": "1-463-123-4447",
    "website": "ramiro.info",
    "company": {
      "name": "Romaguera-Jacobson",
      "catchPhrase": "Face to face bifurcated interface",
      "bs": "e-enable strategic applications"
    }
  },
  {
    "id": 4,
    "name": "Patricia Lebsack",
    "username": "Karianne",
    "email": "Julianne.OConner@kory.org",
    "address": {
      "street": "Hoeger Mall",
      "suite": "Apt. 692",
      "city": "South Elvis",
      "zipcode": "53919-4257",
      "geo": {
        "lat": "29.4572",
```

```
        "lng": "-164.2990"
      }
    },
    "phone": "493-170-9623 x156",
    "website": "kale.biz",
    "company": {
      "name": "Robel-Corkery",
      "catchPhrase": "Multi-tiered zero tolerance productivity",
      "bs": "transition cutting-edge web services"
    }
  },
  {
    "id": 5,
    "name": "Chelsey Dietrich",
    "username": "Kamren",
    "email": "Lucio_Hettinger@annie.ca",
    "address": {
      "street": "Skiles Walks",
      "suite": "Suite 351",
      "city": "Roscoeview",
      "zipcode": "33263",
      "geo": {
        "lat": "-31.8129",
        "lng": "62.5342"
      }
    },
    "phone": "(254) 954-1289",
    "website": "demarco.info",
    "company": {
      "name": "Keebler LLC",
      "catchPhrase": "User-centric fault-tolerant solution",
      "bs": "revolutionize end-to-end systems"
    }
  },
  {
    "id": 6,
    "name": "Mrs. Dennis Schulist",
    "username": "Leopoldo_Corkery",
    "email": "Karley_Dach@jasper.info",
    "address": {
      "street": "Norberto Crossing",
```

```
        "suite": "Apt. 950",
        "city": "South Christy",
        "zipcode": "23505-1337",
        "geo": {
            "lat": "-71.4197",
            "lng": "71.7478"
        }
    },
    "phone": "1-477-935-8478 x6430",
    "website": "ola.org",
    "company": {
        "name": "Considine-Lockman",
        "catchPhrase": "Synchronised bottom-line interface",
        "bs": "e-enable innovative applications"
    }
},
{
    "id": 7,
    "name": "Kurtis Weissnat",
    "username": "Elwyn.Skiles",
    "email": "Telly.Hoeger@billy.biz",
    "address": {
        "street": "Rex Trail",
        "suite": "Suite 280",
        "city": "Howemouth",
        "zipcode": "58804-1099",
        "geo": {
            "lat": "24.8918",
            "lng": "21.8984"
        }
    },
    "phone": "210.067.6132",
    "website": "elvis.io",
    "company": {
        "name": "Johns Group",
        "catchPhrase": "Configurable multimedia task-force",
        "bs": "generate enterprise e-tailers"
    }
},
{
    "id": 8,
```

```
"name": "Nicholas Runolfsson",
"username": "Maxime_Nienow",
"email": "Sherwood@rosamond.me",
"address": {
  "street": "Ellsworth Summit",
  "suite": "Suite 729",
  "city": "Aliyaview",
  "zipcode": "45169",
  "geo": {
    "lat": "-14.3990",
    "lng": "-120.7677"
  }
},
"phone": "586.493.6943 x140",
"website": "jacynthe.com",
"company": {
  "name": "Abernathy Group",
  "catchPhrase": "Implemented secondary concept",
  "bs": "e-enable extensible e-tailers"
}
},
{
  "id": 9,
  "name": "Glenna Reichert",
  "username": "Delphine",
  "email": "Chaim_McDermott@dana.io",
  "address": {
    "street": "Dayna Park",
    "suite": "Suite 449",
    "city": "Bartholomebury",
    "zipcode": "76495-3109",
    "geo": {
      "lat": "24.6463",
      "lng": "-168.8889"
    }
  },
  "phone": "(775) 976-6794 x41206",
  "website": "conrad.com",
  "company": {
    "name": "Yost and Sons",
    "catchPhrase": "Switchable contextually-based project",
```

```
      "bs": "aggregate real-time technologies"
    }
  },
  {
    "id": 10,
    "name": "Clementina DuBuque",
    "username": "Moriah.Stanton",
    "email": "Rey.Padberg@karina.biz",
    "address": {
      "street": "Kattie Turnpike",
      "suite": "Suite 198",
      "city": "Lebsackbury",
      "zipcode": "31428-2261",
      "geo": {
        "lat": "-38.2386",
        "lng": "57.2232"
      }
    },
    "phone": "024-648-3804",
    "website": "ambrose.net",
    "company": {
      "name": "Hoeger LLC",
      "catchPhrase": "Centralized empowering task-force",
      "bs": "target end-to-end models"
    }
  }
]
```

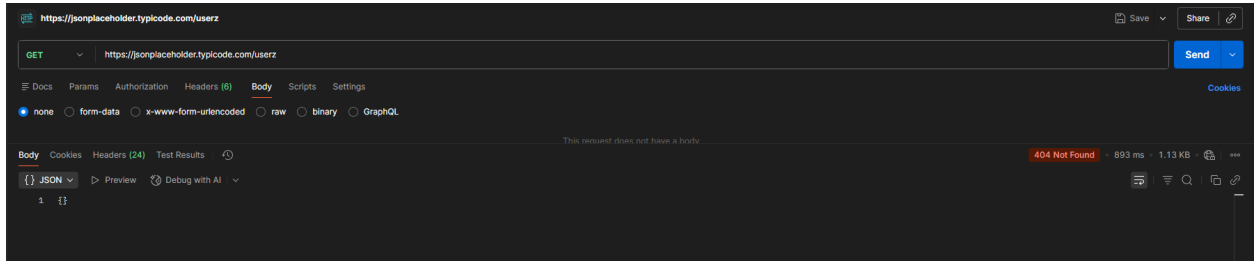
Short Analysis

The API successfully returned a list of users. Data is correctly structured in JSON format and contains valid user attributes.

Edge Case – Invalid Endpoint

URL: <https://jsonplaceholder.typicode.com/userz>

- **Status Code:** 404 Not Found
- **Screenshot**



The API correctly handles invalid resource paths.

2. GET /users/1 – Retrieve Specific User

Test Case ID: API-TC-02

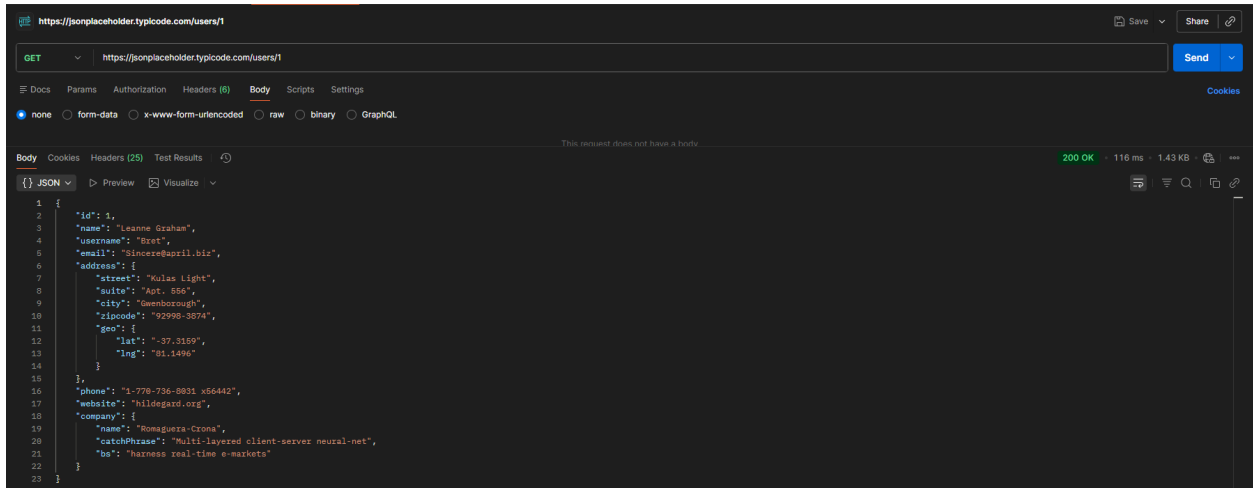
Title: Retrieve a valid user by ID

Request Details

- **Method:** GET
- **URL:** <https://jsonplaceholder.typicode.com/users/1>
- **Headers:**
 - Content-Type: application/json
- **Body:** None

Response Details

- **Status Code:** 200 OK
- **Headers:**
 - Content-Type: application/json; charset=utf-8
- **Response Body:**



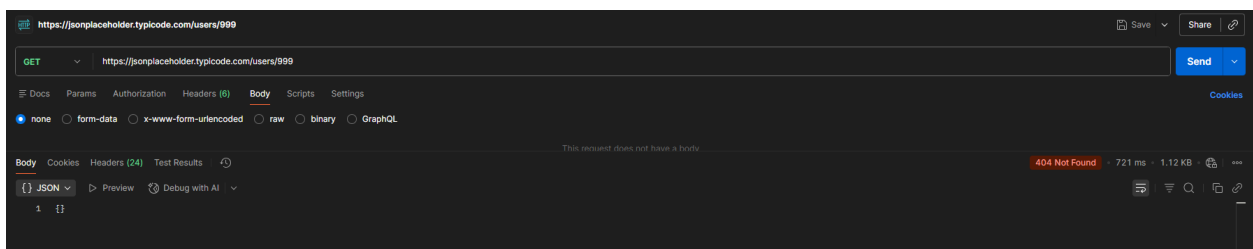
Short Analysis

The correct user is returned based on the provided ID. The response structure is accurate and complete.

Edge Case – Non-existing User

URL: <https://jsonplaceholder.typicode.com/users/999>

- **Status Code:** 404 Not Found and sends an `{}` empty object
- **Screenshot**



The API properly handles a request for a non-existent resource.

3. POST /posts – Create New Post

Test Case ID: API-TC-03

Title: Create a new post successfully

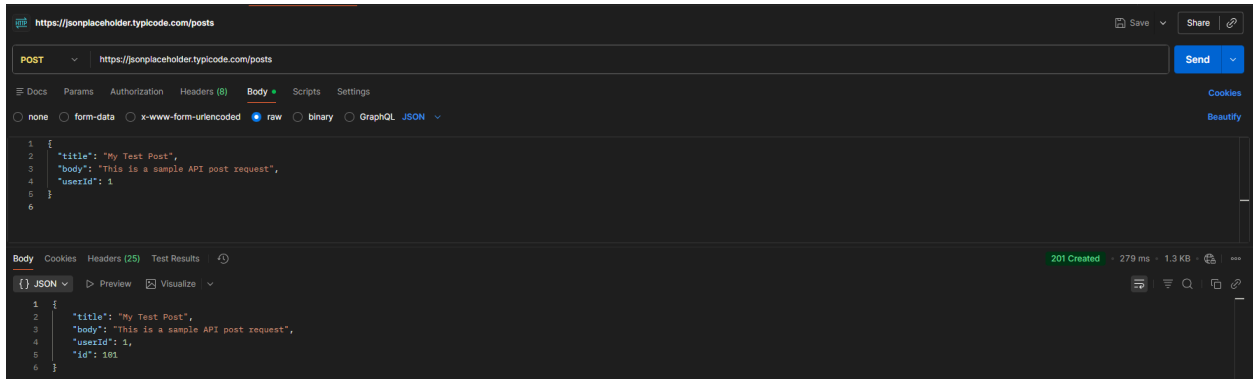
Request Details

- **Method:** POST
- **URL:** <https://jsonplaceholder.typicode.com/posts>
- **Headers:**
 - Content-Type: application/json
- **Request Body:**

```
{  
  "title": "My Test Post",  
  "body": "This is a sample API post request",  
  "userId": 1  
}
```

Response Details

- **Status Code:** 201 Created
- **Headers:**
 - Content-Type: application/json; charset=utf-8
- **Response Body:**



Short Analysis

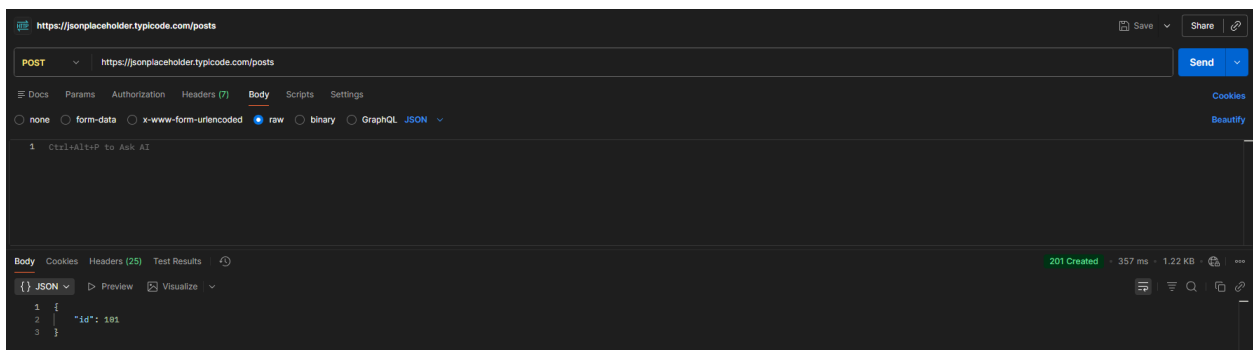
The API simulates successful resource creation and returns a new ID. Since this is a mock API, no actual data persistence is expected.

Edge Case – Missing Required Fields

Request Body:

```
{}
```

- **Status Code:** 201 Created
- **Actual Behavior:** Still allows post creation



This highlights that validation is not enforced in the mock API.

4. PUT /posts/1 – Update Existing Post

Test Case ID: API-TC-04

Title: Update an existing post successfully

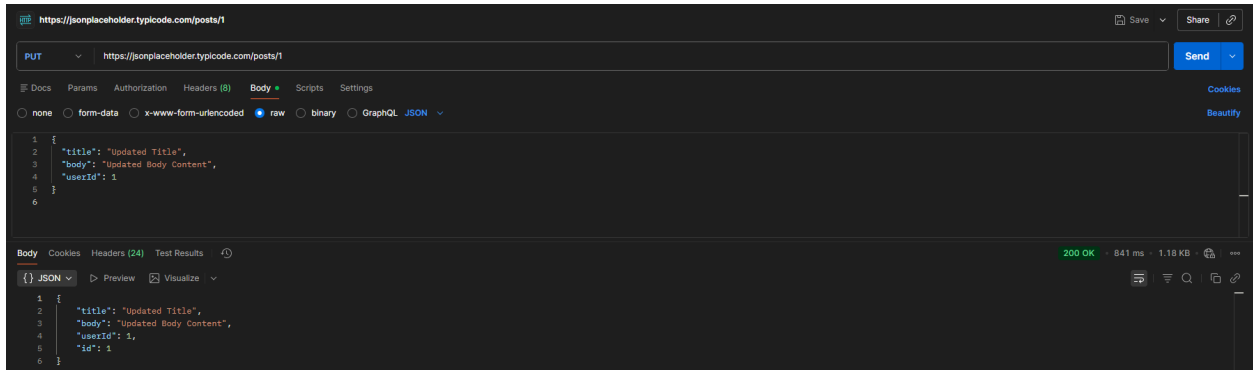
Request Details

- **Method:** PUT
- **URL:** <https://jsonplaceholder.typicode.com/posts/1>
- **Headers:**
 - Content-Type: application/json
- **Request Body:**

```
{  
  "title": "Updated Title",  
  "body": "Updated Body Content",  
  "userId": 1  
}
```

Response Details

- **Status Code:** 200 OK
- **Headers:**
 - Content-Type: application/json; charset=utf-8
- **Response Body:**



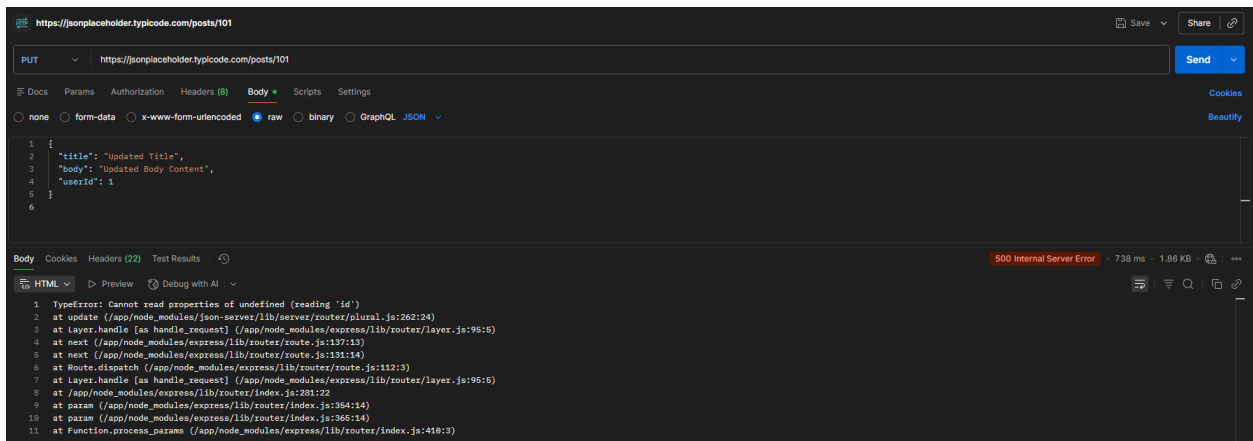
Short Analysis

The API successfully simulates updating an existing resource. Data returned matches the updated request body.

Edge Case – Invalid ID

URL: <https://jsonplaceholder.typicode.com/posts/101>

- **Status Code:** 500 Internal Server Error



The API returns a server-side error when attempting to update a non-existent resource using this specific ID. However, I believe that a 404 Not Found would be more appropriate for an invalid resource identifier.
