

Websites that provide APIs for testing purposes

1. JSONPlaceholder

- **Website:** <https://jsonplaceholder.typicode.com/>
- **Description:** A free online REST API that you can use whenever you need some fake data. It's great for testing and prototyping.

2. ReqRes.in

- **Website:** <https://reqres.in/>
- **Description:** Provides a set of common resources like users and login/logout endpoints. Ideal for testing front-end applications.

3. Swagger Petstore

- **Website:** <https://petstore.swagger.io/>
- **Description:** An example API that showcases the capabilities of Swagger. It allows you to practice making API calls in a simulated environment.

4. Mocky

- **Website:** <https://www.mocky.io/>
- **Description:** Create custom HTTP responses for testing. You can design your own endpoints and specify the responses.

5. Dummy Rest API Example

- **Website:** <https://dummy.restapiexample.com/>
- **Description:** Offers dummy data for testing and prototyping REST APIs. Provides endpoints for CRUD operations.

6. RandomUser

- **Website:** <https://randomuser.me/>

- **Description:** Generates random user data. Useful for testing user profiles, avatars, and other user-related functionalities.

7. PokeAPI

- **Website:** <https://pokeapi.co/>
- **Description:** A full-featured API serving data about Pokémon. Great for practicing API calls in a fun context.

8. OpenWeatherMap API

- **Website:** <https://openweathermap.org/api>
- **Description:** Provides weather data including current conditions, forecasts, and historical data. Requires a free API key.

9. GitHub API

- **Website:** <https://docs.github.com/en/rest>
- **Description:** Access public GitHub data like repositories, users, and issues. It's extensive and good for advanced testing.

10. REST Countries

- **Website:** <https://restcountries.com/>
- **Description:** Get information about countries via a RESTful API. Useful for apps that need geographical data.

11. GoRest

- **Website:** <https://gorest.co.in/>
- **Description:** Provides a public REST API for testing user, posts, comments, and todo functionalities. Supports CRUD operations.

12. JSON Server

- **Website:** <https://github.com/typicode/json-server>
- **Description:** Allows you to create a mock REST API using a simple JSON file. Ideal for local testing.

13. HTTPBin

- **Website:** <https://httpbin.org/>

- **Description:** A simple HTTP request and response service. Test various HTTP methods, headers, cookies, and more.

14. Public APIs List

- **Website:** <https://github.com/public-apis/public-apis>
- **Description:** A collective list of free APIs for development. You can find APIs across various categories.

Tips for Using These APIs:

- **No Authentication Required:** Many of these APIs don't require authentication, making them easy to get started with.
- **Documentation:** Always review the API documentation to understand the available endpoints, request methods, and expected responses.
- **Rate Limits:** Be mindful of any rate limits to avoid being temporarily blocked.
- **API Keys:** For APIs that require an API key (like OpenWeatherMap), you can usually sign up for a free tier suitable for testing.

Why Use These APIs for QA Testing:

- **Realistic Data:** Provides realistic data that can help you simulate real-world scenarios.
- **Practice Error Handling:** Test how your application handles different responses, errors, and edge cases.
- **Learn API Testing Tools:** Use these APIs to learn how to use testing tools like Postman, SoapUI, or automated testing frameworks.

Getting Started:

1. **Choose an API Relevant to Your Needs:** For example, use RandomUser if you're testing user registration forms.
2. **Set Up Your Testing Environment:** Install necessary tools (e.g., Postman) to make API requests and analyze responses.

3. **Start with Basic Requests:** Make simple GET requests to fetch data and gradually move to POST, PUT, DELETE methods.
 4. **Automate Your Tests:** Write scripts or use testing frameworks to automate API testing processes.
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By exploring these APIs, you'll gain hands-on experience with making API calls, handling responses, and performing various QA testing activities. This practical knowledge is invaluable for both beginners and experienced professionals in the field of quality assurance.