

# API Test Script

This project contains a Python script for testing an API endpoint. The script sends a GET request to a specified endpoint, verifies the response status code, and checks the presence of certain keys in the response data.

## Prerequisites

Before running the script, ensure that you have the following installed:

- Python 3.x
- `pip` (Python package installer)

## Setup

### 1. Clone the Repository

If you haven't already, clone the repository using:

```
bash
Copy code
git clone <repository-url>
cd <repository-directory>
```

### 2. Create a Virtual Environment (Optional but recommended)

To avoid conflicts with other Python packages, create a virtual environment:

```
bash
Copy code
python -m venv venv
source venv/bin/activate # On Windows, use `venv\Scripts\activate`
```

### 3. Install Required Packages

Install the required Python libraries using `pip`:

```
bash
Copy code
pip install requests pytest
```

## Configuration

### 1. Edit the Script

Open `test_script.py` and modify the following:

- **API\_URL:** Set this to the actual API endpoint you want to test.
- **EXPECTED\_KEYS:** Update this list with the keys you expect to find in the response.

Example:

```
python
Copy code
API_URL = "https://api.github.com/users/octocat" # Replace with your
API endpoint
EXPECTED_KEYS = ['login', 'id', 'node_id', 'avatar_url', 'url'] #
Replace with expected keys
```

## Running the Script

### 1. Run the Test

Execute the test script using `pytest`:

```
bash
Copy code
pytest test_script.py
```

This will run the test function defined in the script and output the results to the terminal.

### 2. Check Results

- If the test passes, `pytest` will show a success message.
- If there are any issues, `pytest` will display error messages indicating what went wrong.

## Example Output

If the test passes successfully, you will see output similar to:

```
diff
Copy code
===== test session starts
=====
...
collected 1 item

test_script.py .
[100%]

===== 1 passed in 0.XXs
=====
```

If the test fails, `pytest` will provide details about the assertion errors or status code mismatches.