## Automated API Testing Cheat Sheet (English Version)

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1. requests Basics
GET
 response = requests.get("https://api.example.com/items")
 assert response.status_code == 200
POST
 payload = {"username": "admin", "password": "1234"}
 response = requests.post("https://api.example.com/login", json=payload)
2. Authenticated API
Basic Auth
 from requests.auth import HTTPBasicAuth
                                        requests.get("https://httpbin.org/basic-auth/user/pass",
              response
auth=HTTPBasicAuth("user", "pass"))
Bearer Token
 headers = {"Authorization": "Bearer YOUR TOKEN"}
 requests.get("https://api.example.com/profile", headers=headers)
3. Data-Driven Testing (JSON)
login_data.json
  { "username": "emilys", "password": "emilyspass" },
  { "username": "wronguser", "password": "emilyspass" }
 ]
Using pytest
 def load data(path):
   with open(path) as f:
      return [(d["username"], d["password"]) for d in json.load(f)]
 @pytest.mark.parametrize("user, pwd", load_data("login_data.json"))
```

```
def test_login(user, pwd): ...
4. HTML Report (pytest-html)
Generate report
 pytest test file.py --html=report.html --self-contained-html --metadata tester jamei --metadata
project API
Set report title
 --report-title="Login API Test Report"
5. Inspect Response
Print response body
 print(response.text)
Check JSON field
 data = response.json()
 assert "token" in data
6. Login validation logic
 if response.status_code == 200:
   assert "accessToken" in response.json()
 else:
   assert response.status_code in [400, 401]
```

7. Collect test list

pytest test file.py --collect-only