JMeter Load Time Testing

This project is designed to test the page load time of a website using Apache JMeter with the GET method.
The test will measure response times for different pages of the website.

Project Setup

1. Install JMeter
- Download Apache JMeter from: https://jmeter.apache.org/download_jmeter.cgi
- Extract and open jmeter.bat (Windows) or jmeter.sh (Mac/Linux).

2. Create a New Test Plan
- Open JMeter
- Click File > New
- Rename Test Plan to Website_Load_Test
- Save the file (Ctrl + S)

3. Add Thread Group (Users Simulation)
- Right-click Test Plan -> Add -> Threads (Users) -> Thread Group
- Rename to Load Test - Website
- Configure the settings:
  - Number of Threads (Users): 10 (Simulates 10 users)
  - Ramp-Up Period: 5 sec
  - Loop Count: 1

4. Add HTTP Requests for Website Pages
- Right-click Load Test - Website -> Add -> Sampler -> HTTP Request
- Set values:
  - Server Name: automationexercise.com
  - Method: GET
  - Path: / (Homepage)
- Duplicate the request for different pages:
  - About Us Page -> Path: /about-us
  - Contact Us Page -> Path: /contact_us

- Products Page -> Path: /products
- Login Page -> Path: /login

5. Add Listeners (To View Results)
- Right-click Load Test - Website -> Add -> Listener -> Summary Report
- Right-click Load Test - Website -> Add -> Listener -> View Results Tree
- Right-click Load Test - Website -> Add -> Listener -> Aggregate Report

6. Run the Test & View Results
- Click the Start button (Ctrl + R)
- Open Summary Report to check:
  - Min Response Time
  - Max Response Time
  - Average Load Time
- Open Aggregate Report to check:
  - Throughput (Requests per second)

7. Save & Upload Results to GitHub
- Save results -> Right-click Summary Report -> Save Table Data
- Upload the JMeter .jmx file and README.md to your GitHub repository.

Expected Outcome
- Detailed load time analysis for website pages
- Performance data with min, max, and average response times
- Professional JMeter test case for portfolio

GitHub Upload Guide

1. Initialize Git Repository
   git init
   git add .
   git commit -m "Initial commit - JMeter Load Test"

2. Push to GitHub

```
git branch -M main
git remote add origin https://github.com/yourusername/jmeter-load-test.git
git push -u origin main
```

Now you have a complete JMeter Load Test setup to showcase in your portfolio!