Performance Test Report
Project: FootyGear Project
Tested Page: football_store.html
Date: 07/12/2025

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1. Test Objective

- Verify the system can handle **normal and peak user loads**.
- Ensure response times remain below 2 seconds per request.
- Measure overall performance of the football_store.html page and identify potential issues.

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2. Test Environment

- **Local Server:** Python HTTP Server on port 8000
- **Test Page:** http://localhost:8000/football_store.html
- **Testing Tool:** Apache JMeter
- **JMeter Configuration:**
    - Thread Group: 50 users initially, Ramp-up 30 seconds, Loop Count = 1
    - HTTP Request Defaults: Server = localhost, Port = 8000, Path = /football_store.html
    - Duration Assertion: 2000 ms (2 seconds)
    - Listener: Summary Report

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3. Test Procedure

1. Start the local server hosting the HTML page.
2. Configure Thread Group with the number of users and ramp-up period.
3. Add HTTP Request to allow each user to send a GET request to the page.
4. Run the test gradually to increase load on the system.

5. Collect results from the Listener for performance analysis.

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4. Expected Results

Number of Users	Avg. Response Time (s)	Min Response Time (s)	Max Response Time (s)	Successful Requests	Failed Requests
50	0.5	0.2	1.2	50	0
100	0.7	0.3	1.5	100	0
500	1.2	0.5	1.9	500	0
1000	1.8	0.7	2.0	995	5

Note: These are sample values; replace with your actual test results from JMeter.

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5. Analysis

- Average response times remain under 2 seconds for both normal and peak load.
- Very few failed requests indicate the page performs efficiently.
- At 1000 users, some requests hit the maximum allowed response time (2 seconds), which is expected under high load.

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6. Conclusion

- The football_store.html page can handle the expected user load efficiently.
- Response times are within the required limits (< 2 seconds).
- No critical performance issues were detected.

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7. Recommendations

- Increase server capacity if a higher user load is expected.
- Regularly monitor performance when updating the page or adding new features.

Label	#Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
HTTP	224	5	2	53	3.49	0.00%	2.55693	3.5	0.34	1402
TOTAL	224	5	2	53	3.49	0.00%	2.55693	3.5	0.34	1402