## Mini Performance Testing Project – BlazeDemo (Flight Booking App)

### **📄 Project Title: Performance Testing of BlazeDemo – Flight Booking Application**

**(🔗** [**https://www.blazedemo.com**](https://www.blazedemo.com) : Flight booking app (search → select → book)**)**

### **📌 Objective:**

To assess how the BlazeDemo website performs under varying user loads and identify potential performance bottlenecks.

### **🎯 Key Functional Areas to Test:**

* Homepage Load
* Flight Search
* Flight Selection
* Booking Confirmation

### **🔧 Tools:**

* Apache JMeter : 21.0.5
* System: macOS
* BlazeMeter for cloud runs(limited 50 users only)

### **👥 Test Scenarios:**

1. Homepage access
2. Search for flights (e.g., Boston → London)
3. Choose a flight
4. Fill user details and confirm booking

### **👨‍💻 Virtual Users:**

* Start with: **10, 50, 100 users**
* Ramp-Up Time: 5 seconds
* Loop Count: 1

### **📊 Metrics to Capture:**

* Response Time (Avg, Min, Max)
* Throughput
* Error % / Failure Rate
* Hits per second
* CPU/Memory (if monitored on server)

## **Sample Test Cases**

| **Test Case** | **Description** | **Expected Result** |
| --- | --- | --- |
| TC01 | Load homepage with 100 users | Load time < 3s |
| TC02 | Search flights with 50 users | Flights returned without errors |
| TC03 | Book a flight with 10 users | Booking confirmation received |
| TC04 | Run full flow (Homepage → Booking) | No failed requests, < 5% error rate |

## **Acceptance Criteria**

| **Metric** | **Threshold** |
| --- | --- |
| Avg. Response Time | < 2.5 seconds |
| Error Rate | < 5% |
| Throughput | Should not degrade significantly between 10 and 100 users |
| Successful Transactions | ≥ 95% |

## **Deliverables**

* JMX file (Test Plan)
* Screenshots of JMeter reports
* A short PDF/Word **project report**
* Optional: JTL (JMeter result log) files