**Mini-Project 2: Performance Testing on a Landing Page**

**Duration: 2 hours**

**Objective**

To assess the performance of an e-commerce website's landing page under load.

**Task Breakdown**

**1. Create a Performance Test Plan**

**Objective**: Outline the goals and parameters of the performance test.

| **Task ID** | **Task Description** | **Owner** | **Status** | **Notes** |
| --- | --- | --- | --- | --- |
| 1 | Define performance objectives | Tester | Pending | Example: Page load time under X number of users |

**2. Simulate Multiple Users**

**Objective**: Use a performance testing tool to simulate multiple users accessing the landing page simultaneously.

**Tools**: Consider using free or trial versions of tools like JMeter, LoadRunner, or Locust.

| **Task ID** | **Task Description** | **Owner** | **Status** | **Notes** |
| --- | --- | --- | --- | --- |
| 2 | Select performance testing tool | Tester | Pending | Example: Apache JMeter |
| 2.1 | Configure the tool for multiple users | Tester | Pending | Define number of simulated users |

**3. Record and Analyze Performance Data**

**Objective**: Collect performance data and analyze it against the performance objectives.

| **Task ID** | **Task Description** | **Owner** | **Status** | **Notes** |
| --- | --- | --- | --- | --- |
| 3 | Execute performance test | Tester | Pending | Run the test and gather data |
| 3.1 | Record performance metrics | Tester | Pending | Metrics such as load time, response time |
| 3.2 | Analyze performance data | Tester | Pending | Compare against objectives |

**4. Document Performance Issues in JIRA**

**Objective**: Report any performance issues found during testing, including relevant screenshots and data.

| **Task ID** | **Task Description** | **Owner** | **Status** | **Notes** |
| --- | --- | --- | --- | --- |
| 4 | Log performance issues in JIRA | Tester | Pending | Include screenshots and data |
| 4.1 | Tag issues appropriately | Tester | Pending | Severity, priority |
| 4.2 | Assign issues to the developer role | Tester | Pending | Assign relevant developers |

**Example JIRA Entries**

**Performance Issue Example**

* **Summary**: High Page Load Time Under Load
* **Description**: The landing page load time exceeds acceptable limits under 100 users.
* **Steps to Reproduce**:
  1. Simulate 100 users accessing the landing page simultaneously.
  2. Measure the page load time.
* **Expected Result**: Page load time should be under 2 seconds.
* **Actual Result**: Page load time is 5 seconds.
* **Severity**: High
* **Assignee**: DeveloperName
* **Tags**: Performance, LoadTesting

**Summary**

This structured plan should help you efficiently complete your performance testing mini-project on the e-commerce website's landing page. If you have any further questions or need additional assistance, feel free to ask!

J meter: Results and JIRA

