**2NHABER Performance Test Plan (Updated User Counts)**

**Test Reporter :** Mustafa SAYAR

**1. Purpose**

This test plan is designed to measure the performance of the 2NHABER website under increased user load. The goal is to evaluate response times, error rates, and overall stability under various scenarios.

**2. Scope**

* **Tested Areas:**
  + **Homepage:** <https://2nhaber.com/>
  + **Categories:**
    - **Neden:** /kategori/neden
    - **Nasıl:** /kategori/nasil
    - **İş Dünyası:** /kategori/is-dunyasi
    - **Yaşam:** /kategori/yasam
    - **En Çok Okunanlar:** /kategori/en-cok-okunanlar
    - **Sizin İçin Seçtiklerimiz:** /kategori/sizin-icin-sectiklerimiz
    - **En Son Haberler:** /kategori/en-son-haberler
* **Excluded Areas:**
  + **Third-party services (e.g., Google Analytics)**
  + **Pages requiring user authentication**

**3. Test Scenarios**

* **Homepage Test**
  + **User Count:** 200 concurrent users
  + **Ramp-up Time:** 20 seconds
  + **Objective:** Keep response time below 2 seconds
* **Category Pages Test**
  + **User Count:** 100 concurrent users per category
  + **Ramp-up Time:** 15 seconds
  + **Objective:** Ensure pages load within 3 seconds
* **Peak Traffic Test (Total Load)**
  + **User Count:** 500 concurrent users
  + **Ramp-up Time:** 30 seconds
  + **Objective:** Maintain error rate below 1%
* **Mixed User Navigation Test**
  + **User Count:** 300 users
  + **Ramp-up Time:** 25 seconds
  + **Objective:** Keep average response time under 3 seconds

**4. Test Parameters**

* **Simulated User Count:** Up to 500 concurrent users
* **Ramp-Up Time:** 10–30 seconds
* **Test Duration:** 10–15 minutes

**5. JMeter Configuration**

* **Thread Group**
  + **User Count:** 100, 200, 300, 500 (depending on the scenario)
  + **Ramp-up Time:** 10–30 seconds
* **HTTP Request Defaults**
  + **Server Name or IP:** 2nhaber.com
  + **Protocol:** https
* **HTTP Request Sampler**
  + **Homepage:** /
  + **Neden:** /kategori/neden
  + **Nasıl:** /kategori/nasil
  + **İş Dünyası:** /kategori/is-dunyasi
  + **Yaşam:** /kategori/yasam
  + **En Çok Okunanlar:** /kategori/en-cok-okunanlar
  + **Sizin İçin Seçtiklerimiz:** /kategori/sizin-icin-sectiklerimiz
  + **En Son Haberler:** /kategori/en-son-haberler
* **Assertions (Validations)**
  + **Content Validation:** Check for the presence of the word "2NHABER"
  + **Response Time Validation:** Ensure response times are within 2–3 seconds
* **Listeners (Result Visualization)**
  + **Aggregate Report**
  + **Response Time Graph**

**6. Risks and Mitigations**

* **Risk:** The website may become inaccessible during the test
  + **Mitigation:** Gradually increase user count while monitoring server resources
* **Risk:** Traffic spikes might be misinterpreted
  + **Mitigation:** Use specific IP addresses and inform the site’s management
* **Risk:** Incorrect configurations may affect test results
  + **Mitigation:** Review the test plan thoroughly before execution

**7. Expected Outcomes**

* **Homepage:** Average response time ≤ 2 seconds
* **Category Pages:** Average response time ≤ 3 seconds
* **Peak Traffic Test:** Error rate below 1%
* **Overall Performance:** Stable operation