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**MoniTHOR**

**Manual QA Test Plan for Domain Monitoring System**

**Test Plan Overview:**

The purpose of this test plan is to ensure that the Domain Monitoring System meets all requirements outlined in the PRD and functions as expected. The tests will cover user registration, login, domain management, monitoring, scheduling, and performance.

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| Test Case | Test Objective | Steps | Expected Result | Pass/Fail | Tester |
| **\*\*1. User Registration and Login\*\*** |  |  |  |  |  |
| 1.1 User Registration | Verify that users can register with a unique username and password. | 1. Navigate to the registration page.  2. Enter a unique username and password.  3. Click the "Register" button. | User is successfully registered, and the credentials are stored in users.json. |  |  |
| 1.2 User Login | Verify that users can log in with their credentials. | 1. Navigate to the login page.  2. Enter the registered username and password.  3. Click the "Login" button. | User is successfully logged in and redirected to the personalized dashboard. |  |  |
| 1.3 Google Login | Verify that users can log in using their Google account. | 1. Click the "Login with Google" button.  2. Authenticate using Google account credentials. | User is successfully logged in using Google and redirected to the personalized dashboard. |  |  |
| **\*\*2. Domain Management\*\*** |  |  |  |  |  |
| 2.1 Add Single Domain | Verify that users can add a single domain for monitoring. | 1. Navigate to the domain management page.  2. Enter a domain name.  3. Click the "Add Domain" button. | Domain is added and displayed on the dashboard with initial status. |  |  |
| 2.2 Add Bulk Domains | Verify that users can add multiple domains via a .txt file upload. | 1. Navigate to the domain management page.  2. Upload a .txt file containing multiple domain names.  3. Click the "Upload" button. | All domains from the file are added and displayed on the dashboard. |  |  |
| 2.3 Remove Domain | Verify that users can remove a domain from monitoring. | Navigate to the dashboard.  2. Select a domain to remove.  3. Click the "Remove" button. | Domain is removed from the dashboard and the user's domain file. |  |  |
| **\*\*3. Domain Monitoring\*\*** |  |  |  |  |  |
| 3.1 Domain Status Check | Verify that the system correctly checks the liveness of domains. | 1. Add a domain for monitoring.  2. Wait for the system to check the domain status. | The dashboard displays the correct status (e.g., "Active" for status code 200). |  |  |
| 3.2 SSL Expiration Check | Verify that the system correctly retrieves SSL expiration dates. | 1. Add a domain with SSL for monitoring.  2. Wait for the system to check the SSL status. | The dashboard displays the SSL expiration date and issuing authority. |  |  |
| 3.3 Real-Time Updates | Verify that users receive real-time updates on domain status and SSL expiration. | 1. Add a domain for monitoring.  2. Make changes to the domain's status or SSL certificate. | The dashboard updates in real-time with the new status and SSL information. |  |  |
| **\*\*4. Scheduling and Time Zone Management\*\*** |  |  |  |  |  |
| 4.1 Set Monitoring Schedule | Verify that users can set a monitoring schedule for their domains. | 1. Navigate to the scheduling settings page.  2. Set a monitoring interval (minimum 60 minutes).  3. Save the schedule. | The monitoring schedule is saved and applied to the domains. |  |  |
| 4.2 Time Zone Display | Verify that the time zone information is displayed correctly. | 1. Navigate to the scheduling settings page.  2. View the time zone information. | The correct time zone information is displayed. |  |  |
| **\*\*5. Performance Testing\*\*** |  |  |  |  |  |
| 5.1 Concurrent Domain Checks | Verify that the system can handle multiple users performing concurrent domain checks. | 1. Simulate 10 users performing domain checks concurrently.  2. Monitor system performance. | The system handles the load without significant performance degradation, and checks complete within 5 seconds per user. |  |  |
| **\*\*6. Security Testing\*\*** |  |  |  |  |  |
| 6.1 Secure Session Management | Verify that user sessions are managed securely. | 1. Log in with valid credentials.  2. Verify that the session is managed securely. | User session is managed securely, with no unauthorized access. |  |  |
| 6.2 OAuth2 Implementation for Google Login | Verify that Google login is securely implemented using OAuth2. | 1. Log in using Google account.  2. Verify the OAuth2 flow. | Google login is secure, with proper OAuth2 flow and no vulnerabilities. |  |  |
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