**Test Summary Report for Knektz Integrated Services Website**

**1. Introduction**

* **Project Name**: Knektz Integrated Services Website Testing
* **Test Manager**:
* **Date of Report**: December 12, 2024
* **Version**: 1.0
* **Purpose**: This report summarizes the testing efforts and results for the Knektz Integrated Services Website, detailing the testing objectives, scope, methodology, and the outcome of the executed tests.

**2. Test Objectives**

The primary objectives of the testing were to:

* **Verify the website’s functionality**: Ensure all website features are working as expected.
* **Ensure compatibility across browsers and devices**: Validate the website's responsiveness and compatibility on various devices and browsers.
* **Identify performance issues and stress-test the website**: Measure the website’s load time under various traffic conditions.
* **Validate adherence to accessibility standards**: Ensure the website is compliant with WCAG 2.1 and is navigable by users with disabilities.
* **Evaluate the usability of the site**: Test the ease of use, navigation, and user experience of the website.

**3. Test Scope**

Testing covered the following areas:

* **Functional Testing**: Navigation, content accuracy, forms, media and social links.
* **Usability Testing**: Ease of navigation, layout clarity, and user feedback.
* **Performance Testing**: Load time and stress testing.
* **Compatibility Testing**: Cross-browser and device testing.
* **Accessibility Testing**: WCAG 2.1 compliance, keyboard navigation, and screen reader support.

**4. Test Execution**

* **Test Environment**: The tests were conducted on a Windows desktop environment using the latest versions of Chrome (131.0.6778.109 (Official Build) (64-bit)), Firefox (133.0 (64-bit), and Edge (131.0.2903.86 (Official build) (64-bit)). Mobile tests were executed on iOS devices.
* **Testing Tools**: Developer tools in Chrome, Firefox, and Edge were used for performance and accessibility analysis.
* **Test Execution Summary**: All tests were executed according to the test cases. The following tests were carried out:
  + Functional tests (navigation, content, forms).
  + Usability tests (user feedback).
  + Performance tests (load time and stress testing).
  + Compatibility tests (cross-browser and cross-device).
  + Accessibility tests (WCAG compliance, screen reader tests).

**5. Test Results Summary**

| **Test Type** | **Passed** | **Failed** | **Not Executed** |
| --- | --- | --- | --- |
| **Functional Testing** | 30 | 0 | 0 |
| **Performance Testing** | 1 | 0 | 0 |
| **Compatibility Testing** | 5 | 0 | 0 |
| **Accessibility Testing** | 5 | 1 | 0 |

**Defects Summary**

* **Total Defects**: 5
* **Severity Distribution**:
  + **High**: 3
  + **Medium**: 2
  + **Low**: 0
* **Status**:
  + **Open**: 5
  + **Closed**: 0
  + **Deferred**: 0

**6. Major Issues Identified**

1. **Testimonial Video Player Not Scaling Properly**:
   * The testimonial video player does not scale proportionally when the screen size is reduced.
   * **Impact**: Affects user experience, especially on mobile devices where responsiveness is crucial.
2. **Hamburger Menu Distortion on Mobile Devices**:
   * When accessing the "Healthcare as a Service" page and proceeding to the "Hire/Order Now" and "Register Now" forms, the hamburger menu distorts on mobile (iPhone 15 Plus).
   * **Impact**: Makes navigation difficult and impacts the user interface's integrity.
3. **Keyboard Navigation Accessibility on Homepage**:
   * The tab key does not properly navigate to the two primary links ("Healthcare as a Service" and "QA as a Service") on the homepage.
   * **Impact**: Users who rely on keyboard navigation may not be able to access critical parts of the site, violating accessibility standards.
4. **Performance Issue – Response Time Under Normal Load**:
   * The response time of the website under a load of 50 users was recorded at 6.2 seconds, which is above the acceptable limit of 3 seconds.
   * **Impact**: Slower response time could result in a poor user experience, particularly on slower internet connections.
5. **Response Time Issues Under Peak Load**:
   * Under peak load conditions (500-1000 users), the response time increased, impacting the site's scalability.
   * **Impact**: Performance degradation during peak loads could lead to slower page loading and potential service disruption.

**7. Risks and Mitigation**

| **Risk** | **Mitigation Plan** |
| --- | --- |
| **Delayed environment setup** | Prioritize environment setup tasks early in the testing cycle to avoid delays. |
| **Internet downtime** | Use a backup internet connection to ensure continuous testing in case of downtime. |

**8. Conclusion**

* **Test Coverage**: All defined test cases were executed, with a high pass rate. However, several critical issues were identified, including slow response time, accessibility violations, and issues with the mobile navigation.
* **Overall Status**: The testing process was successful with a high percentage of test cases passing, but 5 critical issues need to be addressed before the website can be launched.
* **Recommendation**: It is recommended that the development team fix the identified issues, particularly the performance and accessibility problems. Additional testing may be required to validate these fixes.

**9. Approval**

| **Name** | **Role** | **Signature** |
| --- | --- | --- |
| Test Manager Name | Test Manager |  |
| Developer Name | Developer |  |
| Project Manager Name | Project Manager |  |