Test Plan Document for AwesomeQA website

1. Introduction

This document outlines the testing approach for the AwesomeQA website.

2. Scope

This test plan covers functional and usability testing of the Registration & Login page accessible via the URL: "https://awesomeqa.com/ui/index.php?route=account/register".and "https://awesomeqa.com/ui/index.php?route=account/login" respectively.

3. Objectives

- To ensure the registration and login page functions correctly under normal and boundary conditions.
- To verify that user inputs are validated appropriately.
- To confirm that user experience is intuitive and error handling is effective.

4. Features to be Tested

- First name field
- Last name field
- Email field
- Telephone field
- Password field
- Confirm password field
- Subscribe option (yes or no)
- Privacy policy checkbox
- Username/email field
- Password field
- "Remember Me" checkbox
- "Forgot Password" link
- "Login" button

5. Test Scenarios

1. Valid Registration:

   - Input valid data into all fields.

   - Verify successful registration.

2. Invalid Inputs:

   - Test each field with invalid inputs (empty, invalid format, etc.).

   - Verify appropriate error messages are displayed.

3. Password Matching:
   - Enter mismatched passwords.
   - Verify error message is displayed.
4. Subscribe Options:
   - Test both "Yes" and "No" options.
   - Verify subscription status accordingly.
5. Privacy Policy:
   - Attempt registration without accepting the privacy policy.
   - Verify error message is displayed.
6. Boundary Testing:
   - Test with maximum and minimum character inputs for each field.
   - Verify system behaviour.
7. Usability Testing:
   - Evaluate the overall user experience.
   - Check for intuitive design and error handling.
8. Valid Login:
   - Enter valid username/email and password.
   - Verify successful login.
9. Invalid Inputs:
   - Test each field with invalid inputs (empty, invalid format, etc.).
   - Verify appropriate error messages are displayed.
10. Invalid Credentials:
    - Enter valid username/email and invalid password.
    - Verify error message is displayed.
11. Remember Me:
    - Check the "Remember Me" checkbox and login.
    - Close browser and revisit the page.
    - Verify the user remains logged in.
12. Forgot Password:
    - Click on "Forgot Password" link.
    - Enter valid email address and submit.
    - Verify password reset instructions are received.
13. Usability Testing:
    - Evaluate the overall user experience.
    - Check for intuitive design and error handling.

6. Test Environment

- Browser: Chrome, Firefox, Safari
- Devices: Desktop, Mobile

7. Test Cases

- Verify that the Registration should be successful with all Valid entries.
- Verify that the Registration shouldn't be successful with any of the fields left empty/blank.
- Verify that the registration should fail with appropriate error messages displayed for each required field left empty / blank.
- Verify that the registration should fail when tried with a duplicate email with an error message as "E-Mail Address is already registered!"
- Verify that the registration should fail when tried with an invalid email id.
- Verify that the registration should fail when tried with an invalid email id and invalid telephone number.
- Verify that the registration should fail when tried with invalid First Name, Last Name with an invalid email id and invalid telephone number.
- Verify that the password must accept between 4 - 20 characters.
- Verify that an Error message should be displayed indicating that passwords do not match. Whenever there is a mismatch in password.
- Verify that with all valid login credentials the user should login successfully.
- Verify that with any invalid credentials login is unsuccessful.
- Verify that with any empty / blank credentials login is unsuccessful.
- Verify that the User should receive password reset instructions via email, by providing Email address when clicked on Forgotten Password link.
- Verify that the System should recognize the username/email regardless of case sensitivity.
- Verify that the System should recognize the password with case sensitivity.
- Verify that the System shouldn't accept passwords exceeding 20 characters.

8. Test Execution

- Assign testers to execute the test cases.
- Record test results including pass/fail status and any defects found.

9. Test Deliverables

- Test plan document
- Test cases document
- Test execution report

10. Risks and Mitigation

Risk: Compatibility issues with certain browsers.

- Mitigation: Prioritise testing on widely-used browsers and address compatibility issues promptly.

Risk: Inadequate error handling leading to security vulnerabilities.
- Mitigation: Conduct thorough security testing and implement necessary fixes.

Risk: Security vulnerabilities due to weak authentication mechanisms.
- Mitigation: Implement strong password policies and encryption methods.

Risk: Inadequate error handling leading to unauthorised access.
- Mitigation: Conduct thorough security testing and implement necessary fixes.

11. Sign-off

- [Space for stakeholders to sign off on the completion of testing.]

This is a basic outline of a Test Plan Document. Depending on the project's specific requirements and complexity, additional sections such as assumptions, dependencies, and timelines may be included.