# Test Plan ([**https://awesomeqa.com/ui/index.php?route=account/register**](https://awesomeqa.com/ui/index.php?route=account/register))

1. **Introduction:**

* The purpose of this test plan is to verify the functionality and usability of the registration page on <https://awesomeqa.com>.
* This test plan covers various aspects including functionality, usability, security, and compatibility testing.

**2. Scope:**

* The test scope includes testing the registration process for new users on the registration page.
* It does not include testing other pages or functionalities outside the registration process.

**3. Test Objectives:**

* To verify that users can successfully register for an account.
* To ensure that all mandatory fields are validated properly.
* To check for any security vulnerabilities.
* To verify the usability and accessibility of the registration page.

**4. Test Environment:**

* Operating System: Windows, MacOS, Linux
* Browsers: Chrome, Firefox, Safari, Edge
* Devices: Desktop, Laptop, Mobile (iOS, Android)

**5. Test Cases:**

**Functionality Testing:**

1. Verify that all mandatory fields (such as username, email, password) are present.
2. Check if the email field accepts only valid email formats.
3. Verify that the password field enforces a minimum length and includes requirements such as uppercase, lowercase, and special characters.
4. Test if clicking on the registration button submits the form.
5. Verify that the registration process is successful upon providing valid information.

**Usability Testing:**

1. Evaluate the clarity of the instructions and labels on the registration page.
2. Test the responsiveness of the page on different screen sizes.
3. Verify that error messages are clear and descriptive.
4. Check if the registration form is easy to fill out and navigate.
5. Test the readability of text and labels.

**Security Testing:**

1. Test for SQL injection vulnerabilities by entering SQL commands in input fields.
2. Verify that sensitive information (such as passwords) are encrypted during transmission.
3. Check for any cross-site scripting (XSS) vulnerabilities by inputting scripts into input fields.
4. Test if the registration page is protected against brute force attacks.

**Compatibility Testing:**

1. Test the registration page on different browsers (Chrome, Firefox, Safari, Edge) to ensure compatibility.
2. Verify the registration page on different operating systems (Windows, MacOS, Linux) for consistency.
3. Test the page on different devices (desktop, laptop, mobile) to ensure responsiveness and functionality.

**6. Test Execution:**

* Execute each test case systematically, recording observations and any deviations from expected behavior.
* Document any defects found during testing with detailed steps to reproduce.
* Retest defects after they have been fixed to ensure resolution.

**7. Test Deliverables:**

* Test plan document
* Test cases document
* Test execution report
* Defect report

**8. Risks and Mitigation:**

* Risk: High traffic might cause performance issues during registration. Mitigation: Conduct load testing to identify and address performance bottlenecks.
* Risk: Security vulnerabilities could compromise user data. Mitigation: Regularly conduct security audits and apply necessary patches and updates.

**9. Conclusion:**

* Upon completion of testing, provide a summary of findings and recommendations for any necessary improvements to the registration page.

**10. Approval:**

* This test plan requires approval from the QA lead or project manager before execution.

**11. Revision History:**

* Record any changes or updates made to the test plan during the testing process.