

## **#Test Plan and Test Cases for Account Creation and Login Functionality**

This document includes the test plan and test cases for the account creation and login functionality of a website. It ensures that users can successfully register and create new accounts to log in to the website.

### **Objective:**

To ensure that the account creation and login functionalities of the given [Website](#) work as intended, delivering a seamless user experience.

### **Scope:**

- In-Scope:
  - Account creation process, including validation of input fields.
  - Successful account creation and verification.
  - Login process with valid and invalid credentials.
  - Logout functionality.
  - Error handling for various scenarios (e.g., duplicate usernames, incorrect passwords).
- Out of Scope:
  - User interface design and API testing.
  - Performance testing under load.
  - Security testing beyond basic input validation.

### **Testing Strategies:**

- Manual Testing: Testing the website's account creation and login functionalities manually by interacting with the system to detect any issues or inconsistencies.
- Automation Testing in Cypress: Using the Cypress framework to automate test cases for account creation and login, ensuring efficient and repeatable testing for different scenarios.
- Black Box Testing: Testing the account creation and login features without knowledge of the internal system, focusing solely on the system's output and behavior based on user inputs.
- Functional Testing: Ensuring that the account creation and login features work as expected, meeting the functional requirements and user needs.

## Evaluation Criteria

The success of the testing will be evaluated based on predefined criteria, which include account creation and login functionality.

## Platform for Testing:

- Operating System: Linux
- Browsers: Chrome, Firefox

## Test Case Design :

The given link includes the test cases for account creation and login.

([Test case](#)).

## Test Data Management Strategy

### Test Data Requirements:

- User names: Generate unique usernames for each test case to avoid duplication.
- Passwords: Use a consistent password format that meets requirements
- Emails: Generate random email addresses for each test case to ensure uniqueness.

### Test Data Generation:

- Use a random string generator to create usernames and passwords.
- Use a function to generate random email addresses .

### Data Storage:

- Store generated test data in a structured format (e.g., JSON or CSV) for easy access and management.

**Conclusion:** This test plan provides a comprehensive approach to testing the account creation and login functionalities of the website. It defines the scope, designs detailed test cases, and establishes a robust test data management strategy. These test results offer the best approach to initiating the testing process.