**Test Plan 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](https://receive-smss.com/) 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](https://docs.google.com/spreadsheets/d/1TSmecvWKHYJql-B_eNHQYdBKHqWe4GR3Z6FqLurnL2o/edit?usp=sharing)).

**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.