

USER SIGN UP AND AUTHENTICATION USE CASES

OBJECTIVES

- Ensure the Application Under Test conforms to functional and non-functional requirements
- Ensure the AUT meets the quality specifications defined by the client
- Bugs/issues are identified and fixed before go live

SCOPE

- This covers features to be tested and those that should not be tested(In scope and possibly out of scope) testing

TEST METHODOLOGY ATTRIBUTES

- Step 1: Test that the url of the website is functional
- Step 2: Click on the sign up button
- Step 3: If button is functional, it takes user to a sign up page
- step 4: User enters necessary details such as username,password,email, phone number
 - If username is valid, no error message else an error message is prompted
 - If password is valid, no error message else an error message is prompted
 - If password re-entered is valid(tallies with previously entered password) no error message is prompted else an error message is prompted

**using rechaptcha, user must solve a few puzzle*

- Step 5: user successfully solves the puzzle else user keeps trying till test is passed
- Step 6: User should tick the terms and conditions checkbox else user can't proceed
 - User clicks create account button
- Step 7: If email address is valid a verification mail is sent to users email else an error message is prompted
- Step 8: User follows the rules in the mail and clicks on the 'verify account button' this process automatically verifies users account
- Step 9: user is directed to the login page, if email entered tallies with password used during sign up a six digit code is sent to users mail,
 - if login detail are invalid, an error message is prompted
- Step 10: user receives otp, enters the digits and is permitted to access new accounts,
 - If wrong OTP is entered, user can't login
- Step 11: Welcome/Login notification mail is sent to user for confirmation
- Step 12: Test confirms successful login provided valid details have been provided

**scheduling involving the dates each tests were carried out may be applicable*

RISKS

Sensitive data breach such as password decryption and Late delivery of email notification

- Risk identification: Technical and business staff must be consulted

- Risk analysis: The risk should be discussed, probability and consequence score should be assigned as well as exposure calculation
- Risk Response: Formulate test objectives and select test technique, dependencies, requirements, costs, timescale test documentations etc
- Test Scoping: testing the scope of the risk, work on responsibilities and budgets
- Test process definition: Define and complete test process

BACKUP PLAN

- Test backups are necessary as they ensure essential data is being fully and accurately preserved
- Necessary incase redelegation of testers is required

ROLES AND RESPONSIBILITIES

Detailed description of roles and responsibilities of team members such as

- QA analyst: Creating a test plan useful for accessing functionalities, performance, reliability and so on while fixing bugs or looking for ways to prevent bugs to ensure the product is culturally compatible with the target market
- Test Manager: creates test process and strategies and ensures suitable tools are used for test activities
- Configuration manager: Ensures the secure and scalable deployment of applications, softwares, operating systems etc
- Developers: These are the engineering in charge of building the product
- Installation Teams: Ensures effortless installation/use of new/updated products

TEST METHODOLOGY

- The agile test methodology would be used because it is a continuous testing process rather than sequential

BUG TRIAGE

- Prioritizing bugs and determine a schedule for all bugs to be fixed

TEST TOOLS

- Selenium is a free testing framework used to validate web applications across different browsers and platforms

TERMS/ACRONYMS

Acronym	Full Meaning
AUT	Application Under Test
OTP	One Time Password

CHANGE LOG

Version	Date of Change	Name of Person Who Made Change	Description of The Changes Made

TEST ENVIRONMENT

- Minimum hardware requirements used to test a product e.g. Mac pro, Hp and so on etc
- Software environment such as windows 8 and above, Office 2013 and above, MS exchange and so on