

Testing - US.1A

****Project Name:**** Generative Pre-trained Transformer (GPT) Web Application

****Test Document:**** Product Quality Assurance Testing for the semester 2 2023 delivery

****Test Date:**** [2023/10/12].

****Tester:**** [Chuansheng Zhou].

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****1. Introduction**

Product Quality Assurance testing is intended to ensure that GPT Web applications meet the design and performance requirements to satisfy customer needs and provide a superior user experience. This document will document the scope, methodology, test cases, and test plan for the test.

****2. Scope of Testing****

This test will cover the following areas:

Case ID	Objective	Description	Step	Expected Result
TC_CA_01	To verify that the "Sign Up" button/link is functional and leads to the account creation page. To verify that a new user can successfully create an account on the website.	This test case ensures that clicking on the "Sign Up" or "Create an Account" button/link on the website's homepage correctly redirects the user to the account creation page.	<ol style="list-style-type: none">1. Open the website's homepage.2. Click on the "Sign Up" or "Create an Account" button /link	The user should be redirected to the account creation page.
TC_CA_02	To verify that a user can successfully create an account with valid credentials.	This test case involves providing valid user information during the account creation process to ensure that a new account is successfully created.	<ol style="list-style-type: none">1. Open the account creation page.2. Fill in the required information with valid data3. Click the "Create Account" or "Sign Up" button.4. Wait for the system to process the request.	<ul style="list-style-type: none">• The system should create a new account with the provided information.• The user should be redirected to a confirmation or welcome page.• The user should receive a confirmation email (if email verification is required).• The user should be able to log in with the newly created account credentials.• A success message or confirmation should be displayed to the user.
TC_CA_03	To verify that an error message is displayed when attempting to create an account with an invalid email address.	This test case checks if the system correctly detects and displays an error message when the user attempts to create an account with an invalid email address.	<ol style="list-style-type: none">1. Open the account creation page.2. Fill in the required information:<ul style="list-style-type: none">• Username: [Enter a valid username]• Email: [Enter an invalid email address]• Password: [Enter a valid password]• Confirm Password: [Re-enter the same password for confirmation]3. Click the "Create Account" or "Sign Up" button.	<ul style="list-style-type: none">• An error message should be displayed indicating that the email address is invalid.• The account creation process should not proceed.

TC_CA_04	To verify that an error message is displayed when attempting to create an account with a password that does not meet the password requirements.	This test case confirms that the system correctly identifies and displays an error message when the user tries to create an account with a password that does not meet the specified requirements.	<ol style="list-style-type: none"> 1. Open the account creation page. 2. Fill in the required information: <ul style="list-style-type: none"> • Username: [Enter a valid username] • Email: [Enter a valid email address] • Password: [Enter an invalid password that does not meet requirement s] • Confirm Password: [Re-enter the same password for confirmation] 3. Click the "Create Account" or "Sign Up" button. 	<ul style="list-style-type: none"> • An error message should be displayed indicating that the password does not meet the requirements. • The account creation process should not proceed.
TC_CA_05	To verify that an error message is displayed when the "Confirm Password" field does not match the "Password" field during account creation.	This test case ensures that the system detects and shows an error message when the user enters different passwords in the "Password" and "Confirm Password" fields during account creation.	<ol style="list-style-type: none"> 1. Open the account creation page. 2. Fill in the required information: <ul style="list-style-type: none"> • Username: [Enter a valid username] • Email: [Enter a valid email address] • Password: [Enter a valid password] • Confirm Password: [Enter a different password] 3. Click the "Create Account" or "Sign Up" button. 	<ul style="list-style-type: none"> • An error message should be displayed indicating that the passwords do not match. • The account creation process should not proceed.
TC_CA_06	To verify that a user receives a confirmation email after successfully creating an account.	This test case checks if the user receives a confirmation email in their inbox after successfully creating an account on the website.	<ol style="list-style-type: none"> 1. Open the account creation page. 2. Fill in the required information with valid data: <ul style="list-style-type: none"> • Username: [Enter a valid username] • Email: [Enter a valid email address] • Password: [Enter a valid password] • Confirm Password: [Re-enter the same password for confirmation] 3. Click the "Create Account" or "Sign Up" button. 4. Check the email associated with the created account 	The user should receive a confirmation email in their inbox.

TC_CA_07	To verify that a user can log in with the newly created account credentials.	This test case involves verifying that the user can log in using the account credentials (email/username and password) that were used during the account creation process. It checks the successful login functionality.	<ol style="list-style-type: none"> 1. Open the website's login page. 2. Enter the newly created account's credentials: <ul style="list-style-type: none"> • Username /Email: [Enter the email address used during account creation] • Password: [Enter the password used during account creation] 3. Click the "Log In" button. 	The user should be successfully logged in and redirected to their account dashboard or the website's main page.
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****3.Overall Test Methodology****

This test will be conducted using the following methods:

- Manual Testing:The tester will manually execute the test cases and record the results.

****4. Whole Test Plan****

This test plan will include the schedule of the test, the test environment and the allocation of test resources.

- Test Environment: NA (Manual Testing)
- Test Resources: NA (Manual Testing)