

Testing - US.2C

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

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

****Test Date:**** [2023/10/15].

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

****Version:**** [2023 semester 2] ******.

****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	Steps	Expected Result
TC_G_T exts_01	To verify that generated text has an appropriate length (around 500 words, and at least 100).	This test case ensures that the generated text is of an appropriate length, approximately around 500 words and at least 100.	1. Request the system to generate text. 2. Measure the word count of the generated text with document tools.	The generated text should have a word count of around 500 words and at least 100.
TC_G_T exts_02	To verify that generated text contains an adequate number of paragraphs (within a specified range).	This test case checks the number of paragraphs in the generated text to ensure it falls within the specified range.	1. Request the system to generate text. 2. Count the number of paragraphs in the generated text.	The number of paragraphs in the generated text should be within the specified range (e.g., 7 to 10 paragraphs).
TC_G_T exts_03	To verify that generated text has an appropriate reading difficulty level (e.g., suitable for a specific grade level or CEFR level).	This test case assesses the reading difficulty of the generated text to ensure it aligns with a specific grade level or CEFR level.	1. Request the system to generate text with a specified difficulty level. 2. Analyze the text's readability using appropriate metrics (e.g., Flesch Reading Ease, Flesch-Kincaid Grade Level).	The generated text should have a readability level suitable for the specified grade level or CEFR level.
TC_G_T exts_04	To verify that generated text is relevant to a specific topic and genre.	This test case checks that the generated text is relevant to a predefined topic and genre.	1. Request the system to generate text with a specified topic and genre. 2. Review the generated text to ensure it aligns with the specified topic and genre.	The generated text should be relevant to the specified topic and genre.
TC_G_T exts_05	To verify that generated text includes semantically similar themes/ideas/words/phrases relatively close to each other.	This test case assesses whether the generated text includes semantically similar themes, ideas, words, or phrases that are relatively close to each other in the text	1. Request the system to generate text. 2. Analyze the text for the presence of semantically similar elements in close proximity.	The generated text should include semantically similar elements within the same paragraph or in adjacent paragraphs..
TC_G_T exts_06	To verify that generated text has clear introduction and conclusion paragraphs without excessive repetition.	This test case checks whether the generated text includes clear introduction and conclusion paragraphs that avoid excessive repetition of main points from the body of the text.	1. Request the system to generate text. 2. Examine the text for the presence of clear introduction and conclusion paragraphs.	The generated text should contain clear introduction and conclusion paragraphs that do not overly repeat main points from the body of the text.

TC_G_T exts_07	To verify that generated text is within the specified age range /grade level of target readers.	This test case assesses whether the generated text falls within the specified age range or grade level of the intended readers.	<ol style="list-style-type: none"> 1. Request the system to generate text with a specified target age range or grade level. 2. Evaluate the suitability of the text for the intended audience. 	The generated text should be appropriate for the specified age range or grade level of target readers.
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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)