Testing - US.2A

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

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

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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	Steps	Expected Result
TC_GT_01	To verify that generated topics are unique.	This test case ensures that the topics generated by the system are unique and do not contain any duplicates.	1.Request the system to generate multiple topics.	All generated topics should be unique, and there should be no duplicate topics in the list.
TC_GT_02	To verify that generated topics have an appropriate length.	This test case checks that the length of generated topics falls within an acceptable range.	1. Request the system to generate multiple topics. 2. Measure the length of each generated topic.	The length of each generated topic should be within the specified acceptable range.
TC_GT_03	To verify that generated topics are of good quality.	This test case assesses the quality of generated topics, including readability, logical coherence, and relevance.	1. Request the system to generate multiple topics. 2. Review each generated topic for readability, logical consistency, and relevance.	All generated topics should be readable, logically coherent, and relevant to the context or requirements.
TC_GT_04	To verify that generated topics are generated within a reasonable time frame.	This test case checks the response time of the system when generating topics.	1. Request the system to generate multiple topics. 2. Measure the time taken for topic generation.	The time taken for generating topics should be within an acceptable range (e.g., around 1 minute).
TC_GT_05	To verify that generated topics exhibit randomness.	This test case assesses whether the topics generated by the system exhibit randomness and do not follow predictable patterns.	1. Request the system to generate multiple topics. 2. Analyze the generated topics for patterns or predictability.	The generated topics should not exhibit predictable patterns and should appear random.
TC_GT_06	To verify that the system can handle a large number of topic generation requests.	This test case assesses the system's scalability and performance when generating a large number of topics simultaneously.	1. Simultaneously request the system to generate a large number of topics.	The system should be able to handle the requests without significant degradation in response time or quality of generated topics.
TC_GT_07	To verify that generated topics adhere to specific length requirements.	This test case checks whether the topics generated by the system adhere to specific length requirements, such as minimum and maximum character counts.	1. Request the system to generate multiple topics with specified length requirements. 2. Measure the length of each generated topic.	Each generated topic should meet the specified length requirements as per the test criteria.

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)