

a) Testing the ChatGPT API Integration.

Test Case ID	Test Case Description	Test Steps	Test Data	Expected Results	Actual Results	Pass / Fail
T-01	Test that the Flask app can successfully make API calls to the ChatGPT API.	Input a simple message like "Hi!" In the prompt box.	Prompt: Hi!	Hello! How can I assist you today?	As expected!	Pass
T-02	Test that the app properly handles errors from the ChatGPT API, such as network timeouts or invalid API keys.	<ul style="list-style-type: none"> Calling chatGPT API with invalid API key. Calling chatGPT API while internet connection was turned off. 	Any data in prompt field.	Error logged in log.txt file	As expected!	Pass
T-03	Test that the generated responses from the ChatGPT API are relevant and provide helpful information to the user.	Asking questions in the prompt field.	Prompt: How to turn on Bluetooth in iphone.	<p>I can provide you with instructions on how to turn on Bluetooth on an iPhone:</p> <ol style="list-style-type: none"> 1. Open the Settings app on your iPhone. 2. Tap on "Bluetooth" in the list of options. 3. Toggle the switch next to "Bluetooth" to the "on" position (green). 4. Your iPhone should now be discoverable by other Bluetooth devices and able to connect to them. <p>I hope this helps!</p>	As expected!	Pass

b) Testing proper rendering of landing page

Test Case ID	Test Case Description	Test Steps	Test Data	Expected Results	Actual Results	Pass / Fail
TL-01	Rendering of home page when URL invoked.	Requesting home page using a browser.	In URL bar of browser: https://localhost:5000	Home page of KnowGPT	As expected!	Pass
TL-02	Rendering of prompt and Response from ChatGPT API.	Entering anything in prompt field.	Prompt: Any question	Current Prompt and response should stack on top of previous chat.	As expected!	Pass