DAY – 23

29 August 2025

TC ID	Test Case Description	User Input	Expected Output	Actual Output	Status
TC-01	Verify greeting response	hello	Hello! How can I help you today?	Same as expected	Pass
TC-02	Verify chatbot identity	what is your name	I am your assistant chatbot.	Same as expected	Pass
TC-03	Verify goodbye message	bye	Goodbye! Have a great day.	Same as expected	Pass
TC-04	Verify thank-you response	thanku	welcome □	Same as expected	Pass
TC-05	Verify simple confirmation	okay	great □	Same as expected	Pass
TC-06	Fetch definition from dataset	What is Jamabandi	Jamabandi is an official Record of Rights document related to land ownership and irrigation details.	Same as expected	Pass
TC-07	Dataset question matching	What is A form	A-Form is a supporting land record used for validating farmer applications.	Same as expected	Pass
TC-08	Dataset-based explanation	What is Naksha nakal	Naksha Nakal refers to a certified copy of a land map showing land use and irrigation details.	Same as expected	Pass
TC-09	Case-insensitive query handling	WHAT IS JAMABANDI	Correct Jamabandi definition	Same as expected	Pass

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TC-10	Slight variation in query	what is command statement	Command Statement provides summary of command area under an outlet.	Same as expected	Pass
TC-11	Comparative query from dataset	What is Comparative Command Statement	Comparative report comparing two command areas in tabular format.	Same as expected	Pass
TC-12	Unknown question handling	What is blockchain	Sorry, I don't have an answer for that.	Same as expected	Pass
TC-13	Empty input validation	(blank message)	Please enter a message.	Same as expected	Pass
TC-14	Mixed case input	WhAt Is NaKsHa NaKaL	Correct Naksha Nakal definition	Same as expected	Pass
TC-15	Dataset-only response assurance	Any dataset question	Answer strictly from dataset	Same as expected	Pass

Explanation of Dataset-Based Test Cases

The following test cases are designed to verify that the chatbot correctly responds to **predefined questions stored in the dataset (dataset.txt)**. The purpose of these tests is to ensure accuracy, consistency, and reliability of responses without using any PDF documents.

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TC-01: Greeting Response

Input: hello

Explanation:

This test checks whether the chatbot can recognize a basic greeting and return the correct greeting response stored in the dataset. It confirms that the chatbot handles conversational starters properly.

 TC-02: Chatbot Identity

Input: what is your name

Explanation:

This test verifies that the chatbot correctly answers identity-related questions using predefined dataset values.

TC-03: Goodbye Message

Input: bye

Explanation:

This test ensures that when a user ends the conversation, the chatbot responds with an appropriate farewell message from the dataset.

TC-04: Thank-You Response

Input: thanku

Explanation:

This test confirms that the chatbot recognizes gratitude-related words and provides a polite response stored in the dataset.

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TC-05: Simple Confirmation

Input: okay

Explanation:

This test checks whether short acknowledgment words are correctly mapped to dataset responses.

TC-06: Dataset-Based Definition (Jamabandi)

Input: What is Jamabandi

Explanation:

This test validates that the chatbot retrieves a detailed definition from the dataset related to land records and irrigation terminology.

TC-07: Dataset-Based Definition (A-Form)

Input: What is A form

Explanation:

This test ensures that structured informational queries are answered accurately using dataset entries.

TC-08: Dataset-Based Definition (Naksha Nakal)

Input: What is Naksha nakal

Explanation:

This test verifies that the chatbot can provide explanations of land map records based on dataset knowledge.

TC-09: Case-Insensitive Query Handling

Input: WHAT IS JAMABANDI

Explanation:

This test checks that the chatbot treats uppercase and lowercase queries equally and still returns the correct dataset answer.

TC-10: Query Variation Handling

Input: what is command statement

Explanation:

This test ensures that small variations in user input do not affect response accuracy, as long as the meaning matches a dataset question.

TC-11: Comparative Query Handling

Input: What is Comparative Command Statement

Explanation:

This test validates that complex dataset entries with longer explanations are correctly retrieved and displayed.

TC-12: Unknown Question Handling

Input: What is blockchain

Explanation:

This test checks how the chatbot handles queries that are **not present in the dataset**. The expected behavior is to return a default fallback response.

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TC-13: Empty Input Handling

Input: *(blank message)*

Explanation:

This test ensures that the chatbot does not crash or return incorrect output when no input is provided and instead prompts the user to enter a message.

TC-14: Mixed Case Input

Input: WhAt Is NaKsHa NaKaL

Explanation:

This test confirms that the chatbot normalizes user input and correctly matches dataset entries regardless of typing style.

TC-15: Dataset-Only Response Validation

Input: Any valid dataset question

Explanation:

This test verifies that the chatbot strictly retrieves answers from the dataset and does not attempt to fetch information from PDFs or external sources.

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