MoodSense Mental Wellness Bot

Test Documentation v1.0

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Table of Contents

[Use Case 2](#_Toc182941844)

[Test Scenario 3](#_Toc182941845)

[User Story 3](#_Toc182941846)

[Test Cases 4](#_Toc182941847)

[Further Program Development 6](#_Toc182941848)

# Use Case

MoodSense, a company that offers mental wellness solutions, creates a chatbot that asks users to describe their mood on a scale of 1 to 10 and provides an appropriate response based on their input.

**Actors**

* End User: A person who inputs their mood on a scale of 1-10 to receive support and suggestions tailored to their mood.

**Prerequisites**

* The end user is willing to engage with the chatbot to assess their mood
* The chatbot runs in a Python environment.

**Steps**

1. The chatbot greets the user and explains its purpose.
2. The chatbot prompts the user to rate their mood on a scale of 1-10
3. The chatbot prints a predefined response based on the user’s input:

* 1-3: “I’m sorry you’re feeling this way. Consider talking to a friend or taking some time for yourself.”
* 4-7: “It seems like you're having an okay day. Remember to take breaks and focus on self-care.”
* 8-10: “That’s great to hear! Keep up the positive energy!”

**Benefits**

1. Encourages self-awareness and emotional reflection.
2. Provides instant, personalized responses to support emotional well-being.
3. Could be used an entry point to broader mental wellness offerings.

# Test Scenario

## User Story

**User story for my program is as follows:**

As a user, I wish to reflect on my current mood and receive suggestions to improve my mental wellness.

**Description:**

The Mental Wellness Bot should ask users to rate their mood on a scale of 1-10. Based on the user’s input, the bot provides a relevant response.

**Acceptance Criteria:**

The program should prompt me, the user, to rate my current mood on a scale of 1-10.

The program prints a response based on my input:

* 1-3: “I’m sorry you’re feeling this way. Consider talking to a friend or taking some time for yourself.”
* 4-7: “It seems like you're having an okay day. Remember to take breaks and focus on self-care.”
* 8-10: “That’s great to hear! Keep up the positive energy!”

**Example:**

I am using the program,

I rate my current mood as 8 on a scale of 1-10

The chatbot should reply:

“That’s great to hear! Keep up the positive energy!”

## Test Cases

The first test was to inspect my code for syntax errors and ensure that my syntax listed the correct conditions for responses based on users input:

A computer screen with text

Description automatically generated

I then completed a series of test cases to ensure that my program outputs the correct expected results.

The results of my completed test cases are listed in the below test table:

| **Test Case** | **Users Input** | **Expected Output** | **Actual Output** |
| --- | --- | --- | --- |
| 1 | 2 | I’m sorry you’re feeling this way. Consider talking to a friend or taking some time for yourself | I’m sorry you’re feeling this way. Consider talking to a friend or taking some time for yourself |
| 2 | 5 | It seems like you're having an okay day. Remember to take breaks and focus on self-care. | It seems like you're having an okay day. Remember to take breaks and focus on self-care. |
| 3 | 9 | That’s great to hear! Keep up the positive energy! | That’s great to hear! Keep up the positive energy! |
| 4 | 11 | Please enter a number between 1 and 10. | Please enter a number between 1 and 10. |

I have included screenshots of my test case results below:

Test Case 1:



Test Case 2:



Test Case 3:

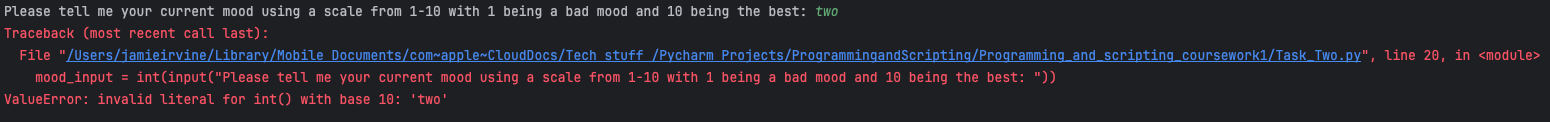


Test Case 4:



Tests 1-3 returned the expected output. Test 4 returned the expected output however it also ended the program. For further development I will add a While loop to allow the user to re-enter their input

For further testing I attempted to enter non expected characters as the program user. When I entered text such as ‘two’ rather than numerical integers, the program crashed. I will rectify this by adding a While loop during my further development phase.



I also checked my interrupter ‘PyCharm’ for run time errors and the interrupter is currently displaying no run time errors.

A screenshot of a computer

Description automatically generated

# Further Program Development

**Ask for user’s name to make response more personal**

I created a variable called ‘users\_name’ and requested that user enters their name. This helps make the chatbot more personal and should help with user engagement.

A screenshot of a computer program

Description automatically generated

I then tested this change and the chatbot asked for user’s name as expected:

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Description automatically generated

I then further personalised my chatbot by adding the users name to the predefined responses:

A screen shot of a computer code

Description automatically generated

I tested this and responses print as expected:

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Description automatically generated

**If user enters an integer larger than 10 or enters text, allow the user to re-enter their input.**

During my tests, I discovered that the program would end if user entered an integer larger than 10 or entered text rather than numbers. I resolved this by using a While loop to ensure user only enters an integer between 1-10.

A screenshot of a computer program

Description automatically generated

I tested this by attempting to enter text and entering a number larger than 10. As expected, chatbot prompted me to re-enter my input:

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Description automatically generated