Form 4: Functional Test cases

1. Team No.:7
2. Project Title: ChatBot Music Recommendation System
3. Test Cases:
4. Test Cases:

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| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Use Case** | **Function Being Tested** | **Initial System State** | **Input** | **Expected Output** | **Test Result** |
| 1. | Initiate Chatbot | Text Handling and Emotion Switch | Chatbot Starts | Hi,Hello,etc | Chatbot Starts Conversation | Pass |
| 2. | User requests joy music | Emotion-based recommendation | Chatbot Active | I am happy, play happy songs. | Chatbot generates links of joyful songs | Pass |
| 3. | User requests sad music | Emotion-based  recommendation | Chatbot Active | It was a sad day. | Chatbot generates links of sad songs | Pass |
| 4. | Try again recommen-dation | Restart Conversation | Chatbot terminates | No required input given | Start conversartion again | Pass |
| 5. | Openning Links | Music platform opened | Chatbot provides links | After last conversation | Links provided | Pass |

Team Members Signature: Signature Supervisor:

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Signature Supervisor

Form 5: Justification and Conclusion

1.Team No:7

2.Project Title:Chatbot Music Recommendation System

3.Justification:

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Parameter** | **Existing value** | **Improved value** | **Justification** |
| 1. | Recommendati-on accuracy | Around 45% | Upto 67% | Improving the accuracy ensures high related playlists to the emotion. |
| 2. | Response time | 6-7 secs | 3 secs | Fast enhanced results. |
| 3. | Personalisation level | low | High | Aligned with User’s mood more accurately. |

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Conclusion:

Team Members Signature: Signature Supervisor

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In conclusion the development and implementation of emotion-based chatbot music recommendation system holds significant promise in personalised music and accurate playlists for users.This system combines the power of NLP and machine learning with various techniques like reinforcement learning,filtering methods and sentiment analysis.In the future, we can expect more recommendation systems like this for evolving user satisfaction and experiences.