

Sprint 2

Test-Cases

Test Case No	Sprint	User Story / Tasks	Test Cases	Expected Outcome	Status
2001	2.1	As a developer, I want to collect immigration-related documents, so that the team can use them to provide personalized advice.	Check if USCIS documents are collected. Check if Common immigration-related Q&A are compiled.	USCIS documents are collected. Common immigration-related Q&A are compiled.	Completed
2002	2.2	As a developer, I want to implement a tagging system, so that we have a structure to sort all the AI training materials which can train AI to provide personalized responses.	Verify the Materials are systematically identified and tagged. Verify if the Document data is centralized and mapped to relevant questions accurately.	Materials are systematically identified and tagged. Document data is centralized and mapped to relevant questions accurately.	Completed
2003	2.3	As a developer, I want to develop an AI model (using BERT or an RNN), so that the system can handle user queries and deliver accurate responses.	Ensure that the AI model is trained on a dataset of immigration-related queries and document data. Verify if the Model achieves an acceptable accuracy threshold in query-response testing.	AI model is trained on a dataset of immigration-related queries and document data. Model achieves an acceptable accuracy threshold in query-response testing.	Completed
2004	2.4	As a user, I want to input immigration-related questions or queries into the system, so that I can receive tailored advice.	Test if the Users can input and submit queries through the system. Check if the Queries are processed and mapped to relevant responses or document data	Users can input and submit queries through the system. Queries are processed and mapped to relevant responses or document data.	Completed

2005	2.5	As a user, I want a chatbox on the frontend where I can interact with the Immigration AI Advisor, so that I can easily ask questions and receive responses.	Test the Chatbox to verify that it is functional and user-friendly. Check if it is integrated with backend systems to process queries and display responses.	Chatbox is functional and user-friendly. Integrated with backend systems to process queries and display responses.	Completed
2006	2.6	As a developer, I want to fine-tune the AI model, so that it delivers more accurate and high-quality responses to user queries.	Does the fine-tuned model achieve higher performance metrics compared to the baseline? Are the improvements documented and validated against predefined test cases?	Fine-tuned model achieves higher performance metrics compared to the baseline. Improvements are documented and validated against test cases.	Not Completed