Functional Requirement: Chatbot Integration

Description: The desktop application should include a chatbot that can answer user queries and provide recommendations for things to do and see in the city.

Input: User queries in natural language format.

Processing:

The chatbot should be able to analyze the user query and identify the intent of the request.

It should then search through the available data (e.g. descriptions of tourist attractions, restaurant recommendations, etc.) to find the most relevant information.

The chatbot should then provide a response to the user in natural language format, using appropriate phrasing and tone.

Output: Responses to user queries and recommendations for things to do and see in the city.

Functional Requirement 2: Chatbot Personalization

Description: The chatbot should be able to personalize its responses based on the user's preferences and past interactions.

Input: User preferences and past interactions.

Processing:

The chatbot should be able to remember previous conversations with the user and use that information to provide more relevant recommendations and advice.

It should also be able to analyze user preferences (e.g. dietary restrictions, preferred types of activities, etc.) to provide personalized recommendations.

The chatbot should be able to adapt its responses based on the user's tone and style of communication.

Output: Personalized responses and recommendations based on the user's preferences and past interactions.

Functional Requirement 3: Chatbot Error Handling

Description: The chatbot should be able to handle errors and misunderstandings gracefully.

Input: User queries that the chatbot cannot understand or process.

Processing:

The chatbot should be able to recognize when it doesn't understand a query and ask the user to rephrase or clarify their request.

It should also be able to recognize when the user is frustrated or confused and offer additional assistance.

The chatbot should be able to provide error messages that are clear and easy to understand.

Output: Clear error messages and assistance for users who have trouble communicating with the chatbot.