ITEC 320 - Python for Web Applications  
Assignment

Task Description:

Create an artificial intelligence assistant and name it whatever you want. (Most sophisticated names gets extra points)

Requirements:

* Design the user interface for the application using any Python GUI library (e.g., Tkinter, PyQt, or wxPython).
* Implement voice recognition and speech synthesis capabilities using any Python speech library (e.g., SpeechRecognition or Pyttsx3).
* Implement the following features:

a. Greeting the user when the application is launched.

b. Answering general knowledge questions (e.g., "What is the capital of France?").

c. Providing weather information for a given location.

d. Playing music on command.

e. Setting alarms and reminders.

f. Opening and searching the web using a specified search engine (e.g., Google or Bing).

g. Translating text from one language to another using an external API (e.g., Google Translate).

h. Responding to voice commands and providing feedback to the user.

* Test the application thoroughly to ensure that it is working as expected.
* Implement Google search, YouTube search etc.

Submission Guidelines:

* Submissions will be on LMS and the last submission date is the last day of the ITEC 320 class.
* Include a brief report (no more than two pages) that describes the methodology you used and the results you obtained.
* Submit the assignment as a ZIP file.

Grading Criteria:

* Creativity and originality of the application.
* Correctness and functionality of the application.
* Clarity and conciseness of the code.
* Quality of the user interface design.
* Quality of the documentation.

Note: You are free to use any additional libraries or APIs to enhance the functionality of the application.