

COSC 310  
Individual Project  
Project Report

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## **Introduction**

This is Amrita Sidhu's Individual project working off from Group 23's Assignment 3. This project was created for COSC 310, and its goal is to create an interactive conversational agent that would take in sentence input from the user and would output an appropriate response. The ChatBot we created is based on the current Prime Minister of Canada, Justin Trudeau, who answers the user's questions based on his past, present, future and his relationships.

## **Added Features**

This chatbot is now connected to 2 API's. An API is an Application Programming Interface, which allows me to connect this GUI to web applications and access and use their data. Specifically, I have connected to a Wikipedia API for the purpose of providing a definition and more information on the question the user asks the bot. This is done by it being linked with synonym recognition, and it gives a definition based on the key word. Second, I have connected to a Google Translate API which allows the user to choose whether they would like to get a response in English, French, Punjabi. The user is able to just type in the language they would like for their responses to be in out of the three languages. The specific functions will then read this user input, send it to a function, and the function will grab this data from wikipedia.

## **Extract Knowledge from Main Keywords**

This bot provides a definition and more information based on the key word from the question that the user asks the bot.

## **Translate Response**

The user can choose to have the response they receive from the bot translated to French or Punjabi. They can also change back to English, or switch between languages at any time.

**Resources:**

[https://www.youtube.com/watch?v=Vlc\\_DDBpE7U](https://www.youtube.com/watch?v=Vlc_DDBpE7U)

<https://www.youtube.com/watch?v=8blsjmfMQxg>