

*\*The project is used as application documentation supplement to presents some of the authors technical and problem solving skills.*

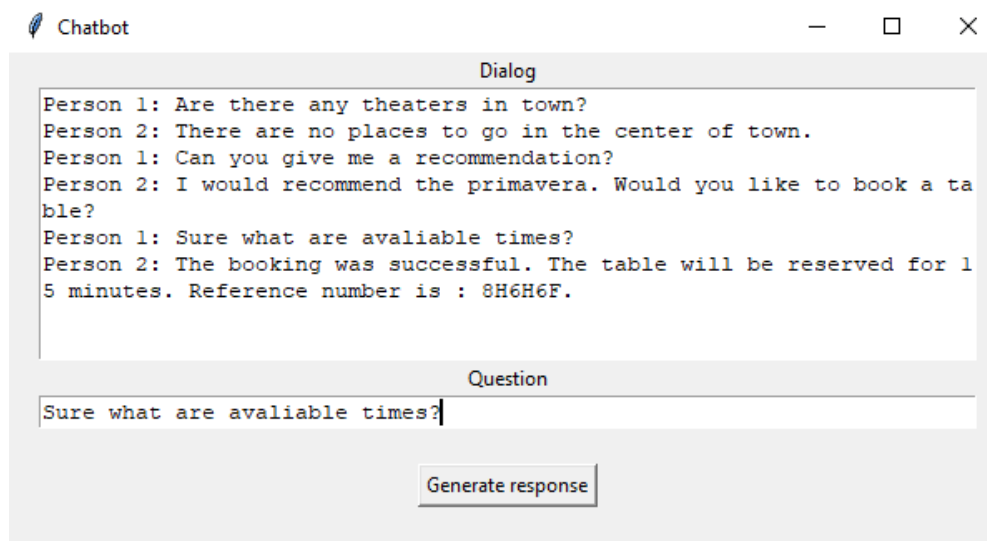
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# Chatbot

**Task:** Create a simple chatbot trained on MultiWoz dataset using reformers.

## Description:

In this project, a simple chatbot is created as a further exploration of the final project of the Deeplearning.ai NLP Specialization Course. Chatbot is trained on MultiWoz dataset. The dataset has more than 10,000 human-annotated dialogues and spans multiple domains and topics. In the project, the dataset is preprocessed, and reformer architecture is built using the Trax framework. The model is then trained and tested. For the chatbot that is implemented in this project (**code**), model weights are loaded due to the lack of computational power of the laptop. The text generator function is then built and integrated with other ones to give the chatbot functionality. The model is then integrated into a simple GUI that allows us to use the chatbot.



*Chatbot GUI*

As you can see in the example in the picture, because the model was trained not trained for a long time questions are not perfect but the integrity of the response sentences is good. As a result, this simple chatbot is not going to give you useful answers but I hope, when it makes a mistake, it is going to make you laugh.