TalkToMeBOT-A Mental Health ChatBot

Problem Statement:

A good percentage of people suffer from mental health problems but they lack the knowledge and awareness to cure it. When left untreated, mental health problems can lead to poor academic or work performance, higher medical expenses, increased risk of suicide, fewer employment opportunities, etc.

Description

TalkToMeBOT is a Mental Health ChatBot where people can get answers to their questions and doubts like what is mental illness? How to cure mental illness? Sucide prevention and many more regarding mental health and can also get resources for futher help. The ChatBot aims to promote mental health awareness. This chatbot is built using Azure Al/ML services. QnA Maker is a cloud-based Natural Language Processing (NLP) service that allows you to create a natural conversational layer over your data. It is used to find the most appropriate answer for any input from your custom knowledge base (KB) of information. The ChatBot uses Azure QnA maker which helps in storing FAQs and answers to potential questions that can be asked by the user and Azure Bot Service which provides artificial intelligence (AI) chatbot which helps in providing an interactive environment to the user. It also uses HTML and CSS for webpage design. The code is written on Visual Studio Code and is deployed using Github.

Project Objectives

The main objectives of the project are as follows:

- 1. To provide users with accurate and helpful information about mental health
- 2. To provide a friendly and engaging chatbot interface
- 3. To provide jokes to cheer up people who may be feeling down

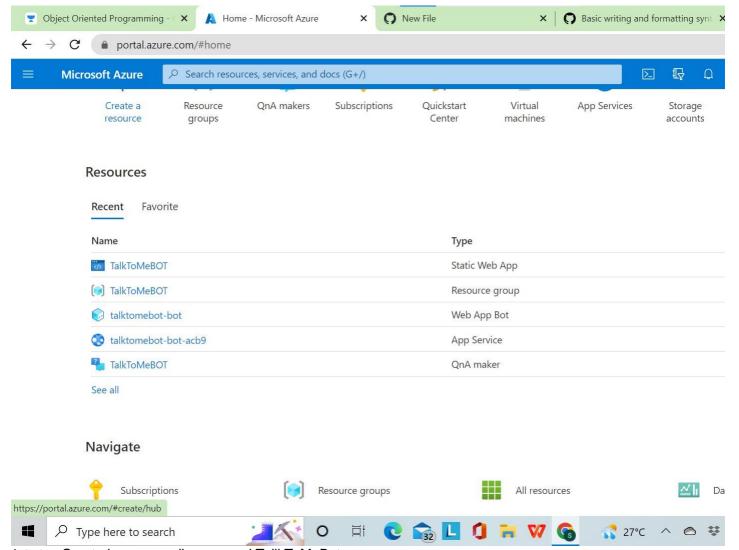
Architecture

The FRT_Final_Project is built using the following technologies:

Azure QnA services: used for providing accurate and helpful information about mental health Azure Bot services: used for handling user inputs and providing appropriate responses Python: used as the main programming language

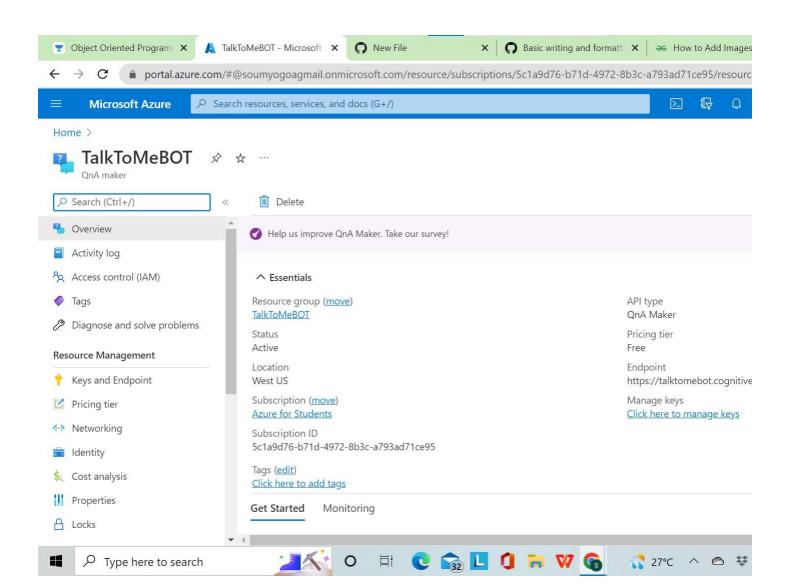
The chatbot architecture is based on a question-answer model, where the user inputs a question or statement, and the chatbot provides a response based on the input.

Screenshots:

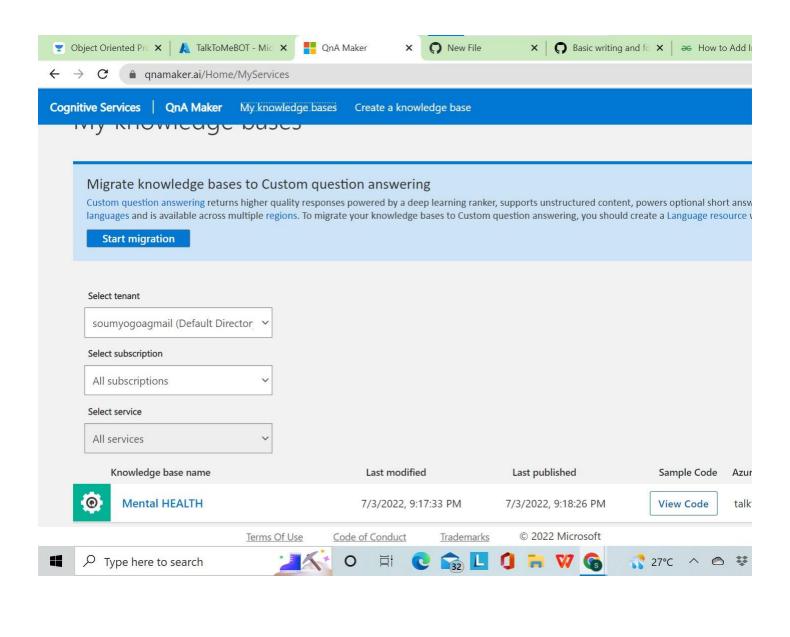


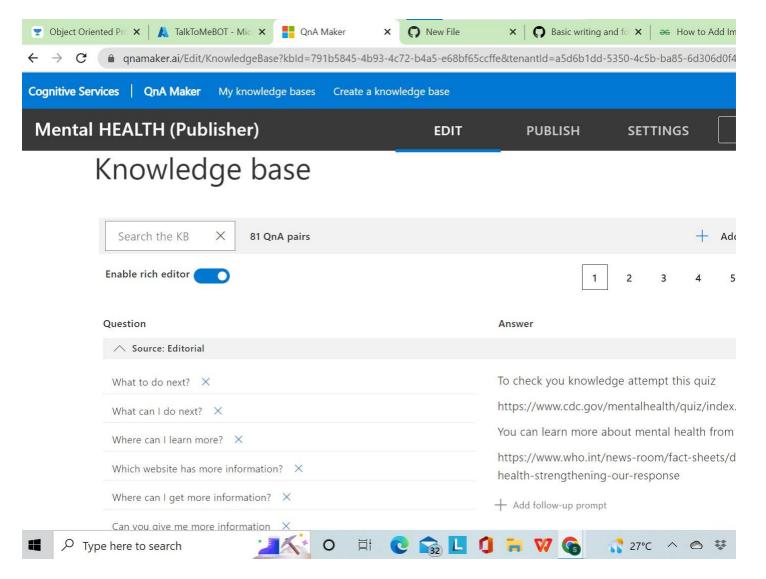
1st step:Created azure serviices named TallkToMeBot

2nd step:Created Azure QnA maker

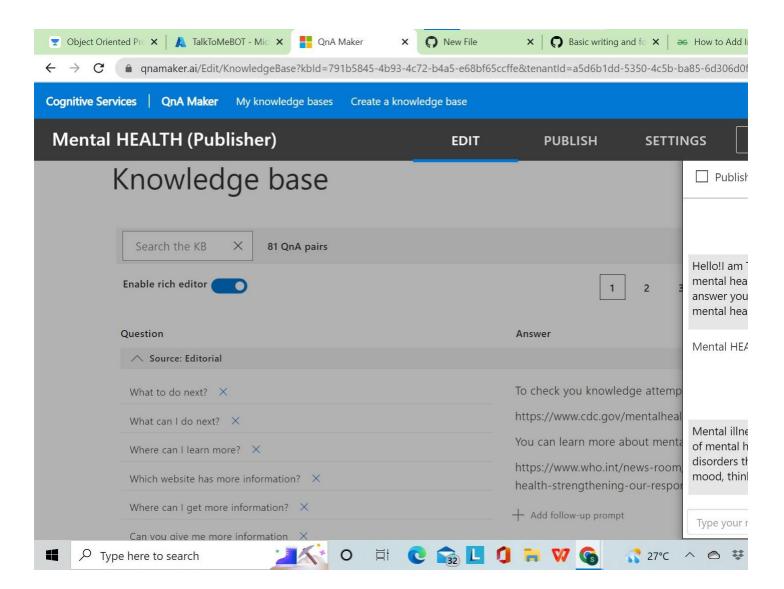


3rd step:Created Azure Knowledge Base

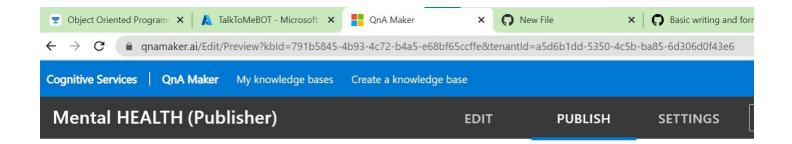




4th step:Train the Bot using test feature



5th step:Publishing the Bot by creating Azure Bot



Mental HEALTH

Publishing your knowledge base moves your QnAs from the test index to the production index. Once you base endpoint becomes available for use in your Bot or App

This knowledge base will be published to the talktomebot QnA Maker service.







Success! Your service has been deployed. What's next

You can always find the deployment details in your service's settings.

Create Bot

View all your bots on the Azure Portal.

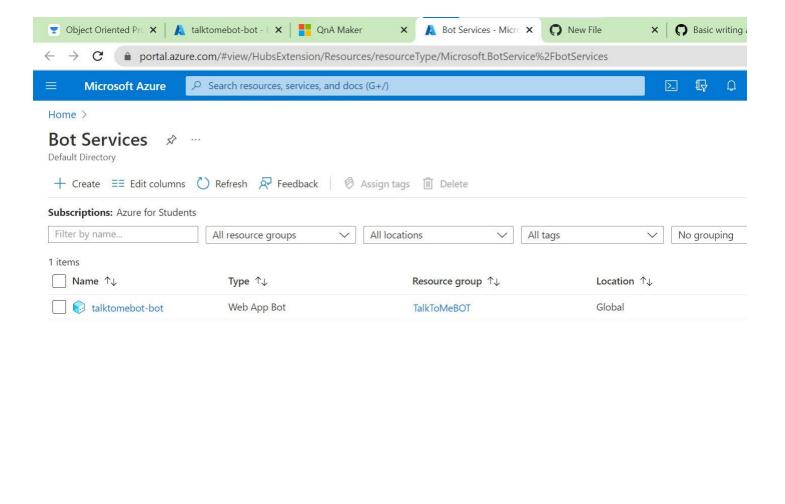
Use the below HTTP request to call your Knowledgebase. Learn more.

Postman Curl

POST /knowledgebases/791b5845-4b93-4c72-b4a5-e68bf65ccffe/generateAnswer Host: https://talktomebot.azurewebsites.net/qnamaker Authorization: EndpointKey 12129109-2903-49c6-8441-219de6adb2ba Content-Type: application/json

{"question":"<Your question>"}

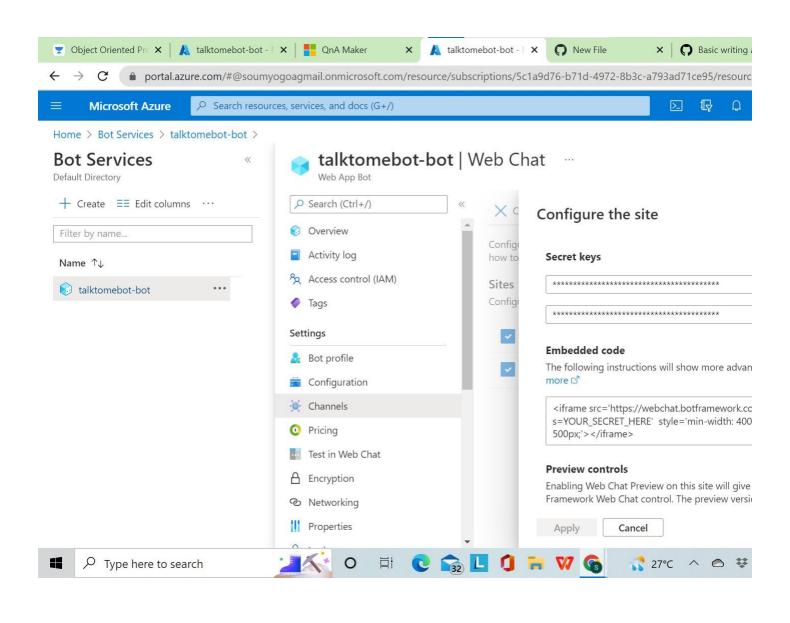


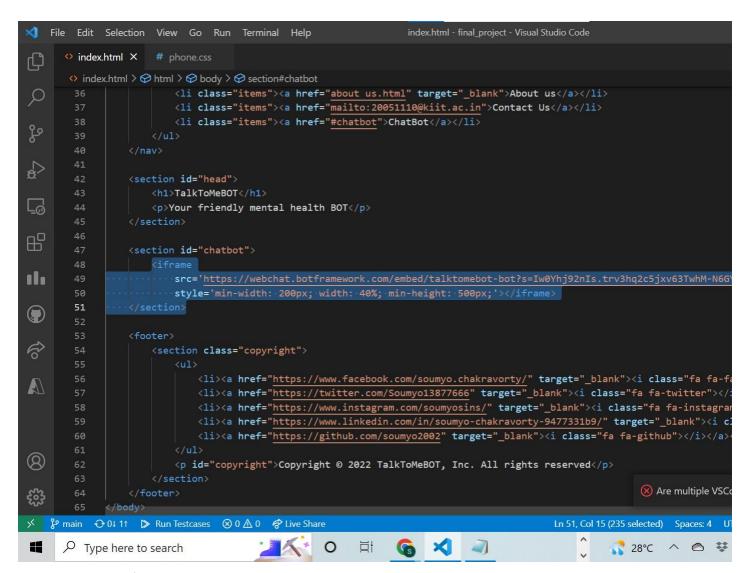


6th step:Copying the Embedded code and Secret Key to HTML code to enable our chat bot to work

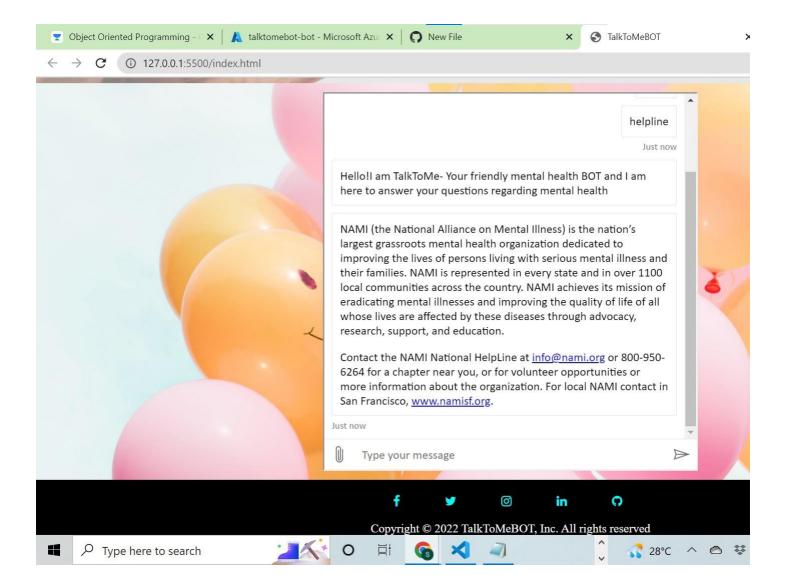
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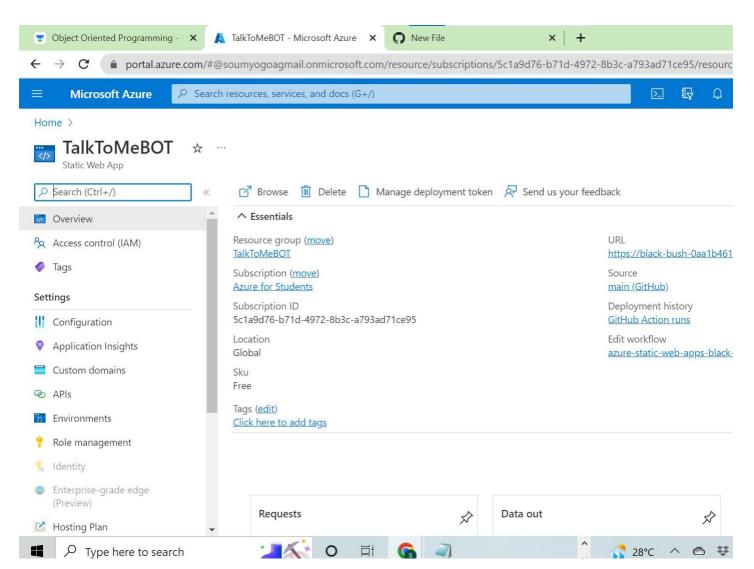




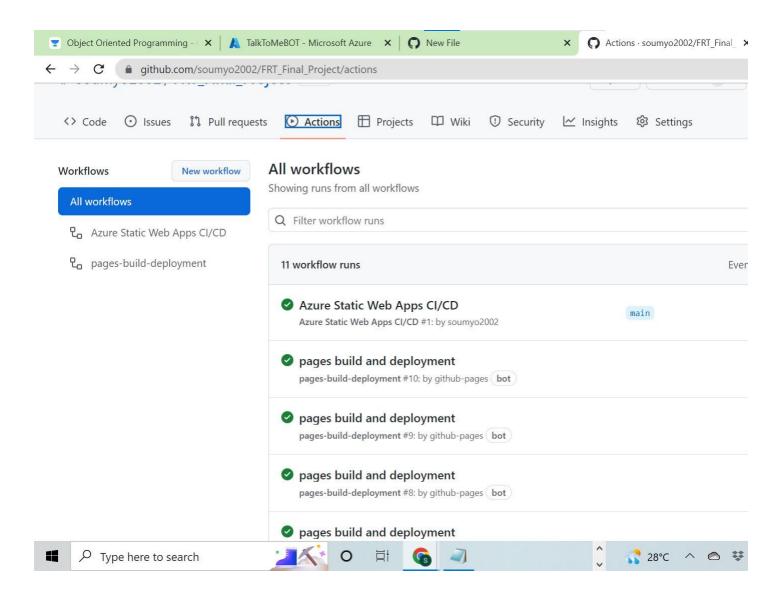
7th step:Testing if the bot is working or not



8th step:Created Static web app



9th step:Static web app successfully connected to GitHub



Project Link:

https://soumyo2002.github.io/FRT_Final_Project/