REPORT
CHATBOT FOR STRESS BUSTER

LOVELY PROFESSIONAL UNIVERSITY

PHAGWARA, PUNJAB

(B.TECH CSE-H)

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INTRODUCTION

A chatbot is a piece of software that conducts a conversation via auditory or textual methods. Such programs are often designed to convincingly simulate how a human would behave as a conversational partner

AIM

Chatbots are being made to ease the pain that the industries are facing today. The major aim is to establish real-time engagement with your customers. User can have good conversation about mental health (as stress buster bot) and can get required reply according to situation and the question ask.

MOTIVATION

A human is not always available to help a person and for some relevant conversation with user. but chatbot is available 24/7 with user to give any solution from dataset and help to counter the problem and user can interact with bot at any time.

OBJECTIVE

A bot should able to establish real-time engagement with user

Reduce human efforts

A bot should able to understand the queries of the user

A bot should able to do good conversation with user

A bot should able to give appropriate responses for the question ask.

SCOPE

❖ The program can be used by health care centre
- to deal with mental health problem so that bot can provide a good environment to user.
- For appointments information
- For treatment queries
❖ The program can used as any website for instantaneous support for the human without any delay.
❖ The program can also be used as fun chat website(funny communication).

ABTRACT

Digital communication has proliferated in a big way in the previous years. It is an important source for the development of the any field.

Chatbots are one of the way of the digital communication of the sources with user. There are many different types of chatbots which are known for different works. Chatbots, or conversational interfaces as they are also known, present a new way for individuals to interact with computer systems. Traditionally, to get a question answered by a software program involved using a search engine, or filling out a form. A chatbot allows a user to simply ask questions in the same manner that they would address a human. The most well known chatbots currently are voice chatbots: Alexa and Siri. However, chatbots are currently being adopted at a high rate on computer chat platforms.

A simple chatbot can be created by loading an FAQ (frequently asked questions) into chatbot software. A chatbot can be used anywhere a human is interacting with a computer system.

However stress buster chatbots mainly deal with mental health of the human. Health care centre can used these type of the bots for the welfare of the customer.

Nowadays bots are mainly used for customer services like a chatbot can be used as an "assistant" to a live agent, increasing the agent's efficiency. When trained, they can also provide service when the call centre is closed, or eventually even act as an independent agent.

RELATED WORKS

Many health care centres and companies used these types of the chatbots for interaction and engagement with peoples. They build these bots for helping the user after taking user queries. These chatbots are generally used for text chatting but only a few chatbots are there which can converse with the customer using audio. These chatbots works on basis of the provided database by source to interact with user and provide relevant responses of the queries and funny talk (questions) of user.

These types are also used to reduce human efforts. We can take any example like Alexa, Siri etc which are audio bots.

IMPLEMENTATION

- ❖ The bots subjected in the project basically known stress buster bots or we can say dealing with mental health of the human.
- ❖ There is relevant database according to the queries and talks of the user and provide the instantaneous responses.
- ❖ Bots can chat with user using audio. It read out the responses on according to the input of the user.
- ❖ Audio function is created using the pyttsx3 library.
- ❖ We can enter the text where bot ask to enter but it provide responses in text and audio form.
- ❖ The bot first greets the user and provides the user a chance to greet the bot.
- ❖ Then it gives its introduction to the user.
- ❖ Then it ask the about the problem of the user and ask to enter sentences from given keywords in the data base of the bot.

❖ As it is Stress buster bot so it try to make interactive environment with user so that user can feel good and can expected responses from the bot.
❖ At last it ask to quit by pressing q and provide a option for further conversation.

Library used:

❖ PYTTSX3 – for speak function of the bot
❖ DATE TIME – for getting date and time
❖ WEB BROWSER – for opening related websites and articles
❖ WIKIPEDIA – for opening related information

Reference

❖ https://www.blog.duomly.com/how-to-create-an-intelligent-chatbot-in-python/
❖ Chatbotmagzine.com
❖ https://www.youtube.com/watch?v=tSjR7bk1Y9U (for making simple chatbot)

CODE

```python
In [2]:  #CODE
         import pyttsx3
         import datetime
         import webbrowser
         import wikipedia

In [4]:  engine = pyttsx3.init('sapi5')
         voices = engine.getProperty('voices')
         engine.setProperty('voices',voices[0].id)
         def speak(audio):
             engine.say(audio)
             engine.runAndWait()

         def lan():


             print("For English enter e or E , For Hindi enter h or H")
             speak("For English enter e or E , For Hindi enter h or H")
             a = input()
             return a

         def greet():

             hour = int(datetime.datetime.now().hour)
             if hour>=0 and hour <23:
                 print("BOT: HELLO",end=" ")
                 speak("HELLO")

         def greet1():

             hour = int(datetime.datetime.now().hour)
             if hour>=0 and hour <23:
                 print("BOT: Namaste",end=" ")
                 speak("Namaste")



         def issue():

             print("BOT :Hello i am stress buster bot")
```

```python
             print("BOT :Hello i am stress buster bot")
             speak("BOT :Hello i am stress buster bot")
             print("BOT: i am here to help to solve your problem")
             speak(" i am here to help to solve your problem")

             print("please make the sentences related to given keywords")
             speak("please make the sentences related to given keywords")
             print("As i am stress buster bot")
             speak("As i am stress buster bot")

             print("so enter the sentences with givwn keywords like pain, sad, stress etc")
             speak("so enter the sentences with givwn keywords like pain, sad, stress etc")
             print("now tell me your problem")
             speak("now tell me your problem")



         def sad():

             print("Why are you sad?")
             speak("Why are you sad?")
             print("Tell me in brief")
             speak("Tell me in brief")

             print("like you are sad because of love,loneliness,breakup,missing someone or something etc")
             speak("like you are sad because of love,loneliness,breakup,missing someone or something etc")
             print("you can share with me anything")
             speak("you can share with me anything")

             print("i will try to solve your problem")
             speak("i will try to solve your problem")

             a = input().lower()
             if 'loves' in a:
                 print("Why you think like that?")
                 speak("Why you think like that")
                 print("sometimes a person thing like that according to the situation")
                 speak("sometimes a person thing like that according to the situation")
                 print("everything gonna be fine after sometime")
                 speak("everything gonna be fine after sometime")

                 print("so don't think like that")
                 speak("so don't think like that")
```

```python
        speak("are you okay now : yes or no")
        d = input().lower()

        if 'yes' in d:
            print("thats great")
            speak("thats great")
        elif 'no' in d:
            print("don't worry everything gonna be fine")
            speak("don't worry everything gonna be fine")


    elif 'single' in a or 'lonely' in a:
        print("No you are not single")
        speak("No you are not single")
        print("i am here with you haha")
        speak("i am here with you haha")
        print("by the way...are you married: yes or no")
        speak("by the way...are you married: yes or no")
        d=input().lower()


        if "yes" in d:
            print("cool then why you feel lonely or single")
            speak("cool then why you feel lonely or single")

        elif "no" in d:
            print("do not worry")
            speak("do not worry")
            print("soon you will find your life partner ")
            speak("soon you will find your life partner")


    elif 'breakup' in a:
        print("oh wow thats great news")
        speak("oh wow thats great news")
        print("thats not a problem")
        speak("thats not a problem")
        print("now you can make new life partner")
        speak("now you can make new life partner")
        print("so be happy and explore the world")
        speak("so be happy and explore the world")
        print("i can give you an platform where you can find your new partner")
```
```python
        d=input().lower()

        if 'yes' in d:
            webbrowser.open("https://twitter.com/login?lang=en")
        elif 'no' in d:
            print("okay")
            speak("okay")


    elif 'missing' in a:
        print("I will cover the memories of missing person")
        speak("I will cover the memories of missing person")
        print("you can talk with me if you missing someone")
        speak("you can talk with me if you missing someone")
        print("BE HAPPY")
        speak("BE HAPPY")



def pain():

    print("Ok you are suffering with pain")
    speak("Ok you are suffering with pain")
    print("what kind of pain you suffer from")
    speak("what kind of pain you suffer from")

    print("like back pain,headache,body pain, pain in eye or ear,pain in hand, leg pain etc")
    speak("like back pain,headache,body pain, pain in eye or ear,pain in hand, leg pain etc")
    print("I will try to give better solution")
    speak("I will try to give better solution")
    print("now tell me")

    speak("now tell me")

    a = input().lower()
    if 'body' in a:
        print("okay tell me that")
        speak("okay tell me that")
        print("you have minor pain or major pain")
        speak("you have minor pain or major pain")
        d=input().lower()

        print("you should take rest for a while")
```

```python
            print("i reccommend you paracetamol")
            speak("i reccommend you paracetamol")

    elif 'head' in a:
        print("okay tell me that")
        speak("okay tell me that")
        print("you have minor pain or major pain")
        speak("you have minor pain or major pain")

        d=input().lower()

        if 'minor' in d:
            print("you should take rest for a while")
            speak("you should take rest for a while")
        elif 'major' in d:
            print("you should consult with doctor")
            speak("you should consult with doctor")
            print("otherwise you should take any painkiller")
            speak("otherwise you should take any painkiller")
            print("i reccommend you paracetamol")
            speak("i reccommend you paracetamol")


    elif 'leg' in a:

        print("okay tell me that")
        speak("okay tell me that")
        print("you have minor pain or major pain")
        speak("you have minor pain or major pain")

        d=input().lower()

        if 'minor' in d:
            print("you should take rest for a while")
            speak("you should take rest for a while")
        elif 'major' in d:
            print("you should consult with doctor")
            speak("you should consult with doctor")
            print("otherwise you should take any painkiller")
            speak("otherwise you should take any painkiller")
            print("i reccommend you paracetamol")
            speak("i reccommend you paracetamol")


    elif 'hand' in a:


        speak("otherwise you should take any ear drop")


def stress():

    print("everyone have so many differnt types of stress")
    speak("everyone have so many differnt types of stress")
    print("now you tell what kind of stress you have")
    speak("now you tell what kind of stress you have")
    print("like exam stress, future stress, result stress,good or bad times etc")
    speak("like exam stress, future stress, result stress,good or bad times etc")
    print("I will try to give proper guidance about it")
    speak("I will try to give proper guidance about it")

    a = input().lower()

    if 'exam' in a or 'paper' in a:

        print("oh thats a genuine problem")
        speak("oh thats a genuine problem")
        print("okay tell me that are you a hardworking guy : yes or no")
        speak("okay tell me that are you a hardworking guy : yes or no")
        d= input().lower()
        if 'yes' in d:
            print("then there should not be any problem at all")
            speak("then there should not be any problem at all")
            print("with hardwork you should do good management of time")
            speak("with hardwork you should do good management of time")
            print("then you will surely succeed in your life")
            speak("then you will surely succeed in your life")
        elif 'no' in d:
            print("you should do hardwork and be puntual with time")
            speak("you should do hardwork and be puntual with time")


    elif 'future' in a or 'carrier' in a:

        print("I Can understand your problem")
        speak("I Can understand your problem")
        print("if you are doing proper harwork then you will surely achieve your goals")
        speak("if you are doing proper harwork then you will surely achieve your goals")
        print("so do not worry about the what going to happen in future")
        speak("so do not worry about the what going to happen in future")
```

```python
        elif 'result' in a or 'outcomes' in a:
            print("i get your problem")
            speak("i get your problem")
            print("if you are giving your best then do not worry about result or outcomes")
            speak("if you are giving your best then do not worry about result or outcomes")
            print("everything will be fine")
            speak("everything will be fine")

        elif 'good' in a or 'bad' in a:
            print("good or bad are only working according the time")
            speak("good or bad are only working according the time")
            print("everyone have phase when they have good or bad")
            speak("everyone have phase when they have good or bad")
            print("so think so much about the it")
            speak("so think so much about the it")




# MAIN
if __name__ == "__main__":

    a = lan()
    b='x'

    if a=='e' or a=='E':
        greet()
        c=input('greeting: ')
        while b!='q':
            issue()
            d = input().lower()


            if 'sad' in d or 'happy' in d:
                sad()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'pain' in d:
                pain()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'stress' in d or 'tension' in d:
```

```python
        c=input('greeting: ')
        while b!='q':
            issue()
            d = input().lower()


            if 'sad' in d or 'happy' in d:
                sad()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'pain' in d:
                pain()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'stress' in d or 'tension' in d:
                stress()
                b=input("If you want to quit enter q otherwise enter any other key")

    elif a=='h' or a=='H':
        greet1()
        c=input('greeting: ')
        while b!='q':
            issue()
            d = input().lower()


            if 'sad' in d:
                sad()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'pain' in d:
                pain()
                b=input("If you want to quit enter q otherwise enter any other key")

            elif 'stress' in d:
                stress()
                b=input("If you want to quit enter q otherwise enter any other key")
    else:
        print("please select a valid input")
        speak("please select a valid input")
```

OUTPUT

For English enter e or E , For Hindi enter h or H

e

BOT: HELLO greeting: hi

BOT :Hello i am stress buster bot

BOT: i am here to help to solve your problem

please make the sentences related to given keywords

As i am stress buster bot

so enter the sentences with givwn keywords like pain, sad, stress etc

now tell me your problem

pain

Ok you are suffering with pain

what kind of pain you suffer from

like back pain,headache,body pain, pain in eye or ear,pain in hand, leg pain etc

I will try to give better solution

now tell me

headache

okay tell me that

you have minor pain or major pain

major

you should consult with doctor

otherwise you should take any painkiller

i reccommend you paracetamol

If you want to quit enter q otherwise enter any other keyq