

# ZaYou

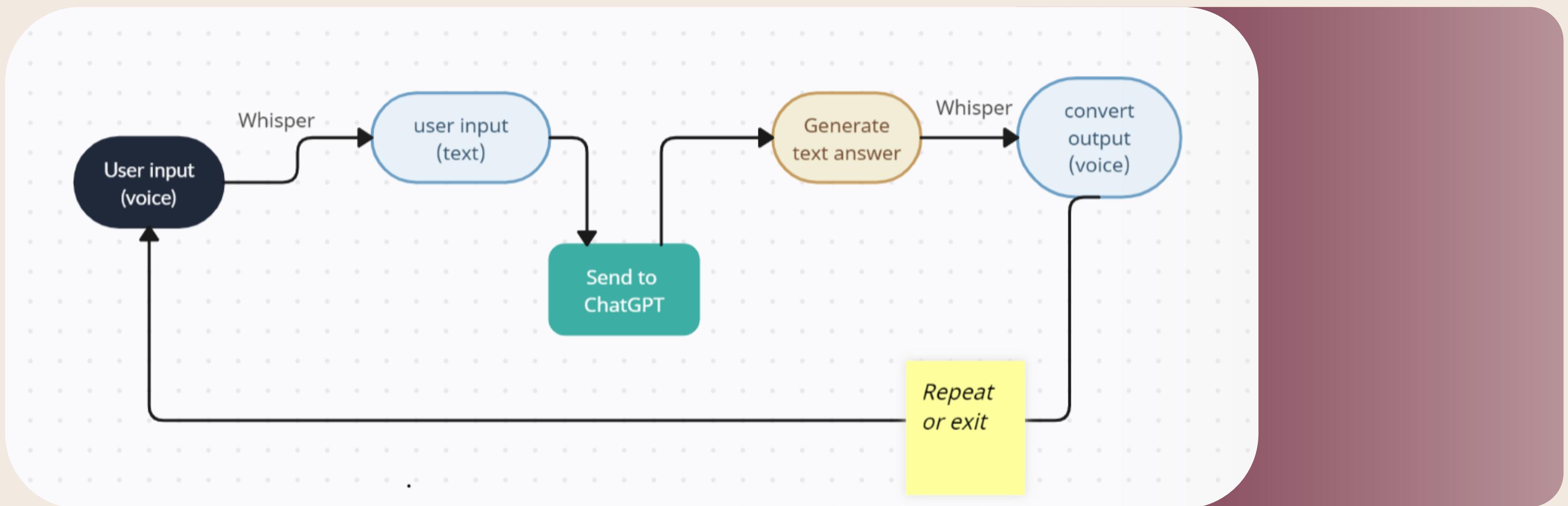
Where Discovery Plays







# Архитектура



# DEMO





ZaYou

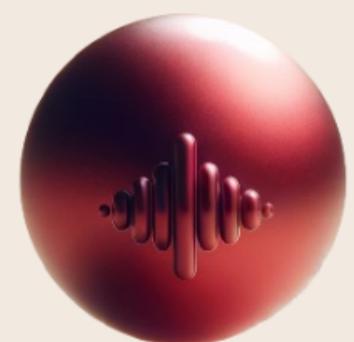
Product

About us

Safety

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**Children can ask questions and engage in conversations with  
the bunny, receiving vocal responses in return**

The primary aim of ZaYou is to provide a safe educational platform where  
children can acquire basic knowledge in an engaging manner.



## Choose your ZaYou



Explains the world to 3-5 year-olds.



Explains the world to 5-7 year-olds.



Explains the world to 7-10 year-olds.

Next

```
import sounddevice as sd
from scipy.io.wavfile import write
import numpy as np
import threading
import keyboard
from openai import OpenAI
import openai
from pathlib import Path
from playsound import playsound
```

```
client = OpenAI(api_key="api_key")
```





```
def record_voice(fs=44100, channels=2):
    global stop_recording
    stop_recording = False
    recorded_data = []
```

```
def check_space_press():
    global stop_recording
    keyboard.wait('space')
    stop_recording = True
    print("Stopping recording...")
```

```
def callback(indata, frames, time, status):
    if status:
        print(status, file=sys.stderr)
    recorded_data.append(indata.copy()) # Append incoming audio data
```

```
# Start checking for space press in a separate thread
threading.Thread(target=check_space_press, daemon=True).start()
```



```
try:
    # Record audio until "stop_recording" becomes True
    with sd.InputStream(callback=callback, channels=channels, samplerate=fs):
        print("Recording... Press space to stop.")
        while not stop_recording:
            sd.sleep(100)
except Exception as e:
    print(f"An error occurred: {e}")
finally:
    if recorded_data: # Check if there is anything to save
        np_data = np.concatenate(recorded_data, axis=0) # Concatenate all recorded audio frames
        filename= "C:\\\\Users\\\\user\\\\Desktop\\\\hacktues_10_2.0\\\\Recording.wav"
        write(filename, fs, np_data) # Save the recording as a WAV file
        print(f"Recording finished. File saved as {filename}")
```



```
def chat_with_chatgpt(transcribed_text):
    openai.api_key = "api_key"
    response = client.chat.completions.create(
        model="gpt-4",
        messages=[{"role": "system", "content": "Your main purpose is to answer
    })
    return response.choices[0].message.content
```



```
def transcribe_text_to_audio(input_text):
    speech_file_path = Path(__file__).parent / "speech.mp3"
    response = client.audio.speech.create(
        model="tts-1",
        voice="nova",
        input= input_text
    )
    response.stream_to_file(speech_file_path)
```

```
def transcribe_audio_to_text():
    audio_file= open("C:\\\\Users\\\\user\\\\Desktop\\\\hacktues_10_2.0\\\\Recording.wav", "rb")

    transcription = client.audio.transcriptions.create(
model="whisper-1",
file=audio_file
)

    return transcription.text
```



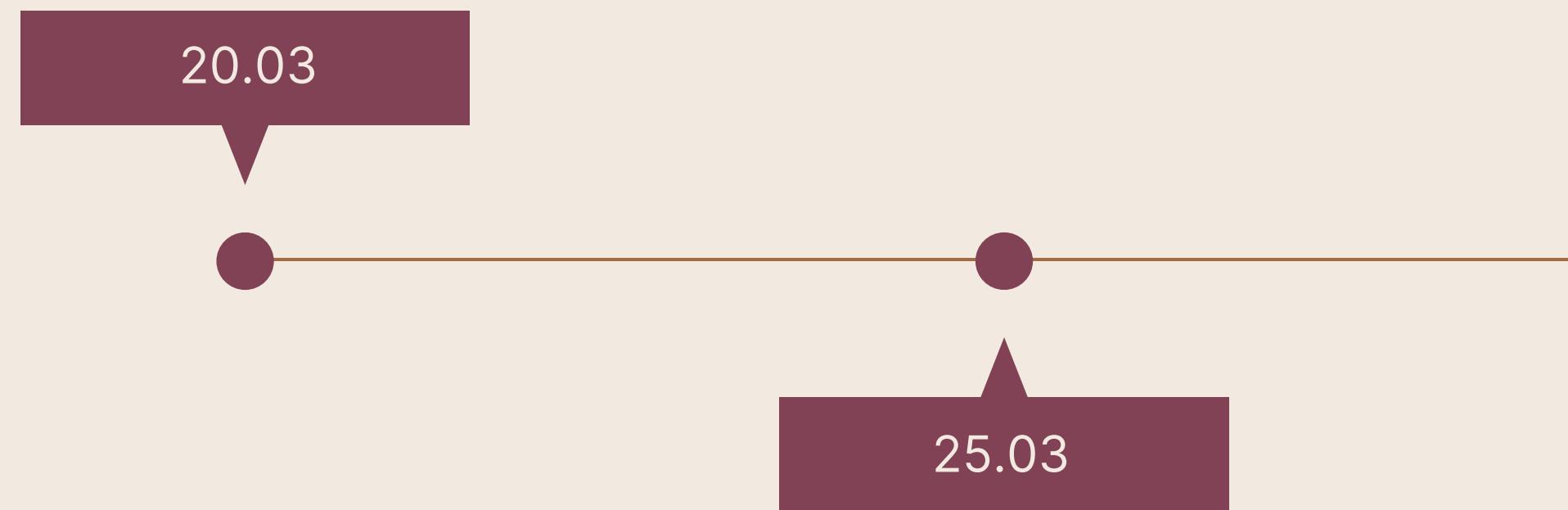
```
def play_audio_file():
    path  = Path(__file__).parent / "speech.mp3"
    playsound(path)
```

```
while(True):
    record_voice(fs=44100, channels=2)
    transcribed_text = transcribe_audio_to_text()
    answer = chat_with_chatgpt(transcribed_text)
    print(f"Question: {transcribed_text}")
    transcribe_text_to_audio(answer)
    print(f"Answer: {answer}")
    play_audio_file()
    command = input()
    if(command == "exit"):
        break
```



# Бъдещо развитие

Персони за  
различните възрасти



Аватари за различните  
персони



**RAG с учебници и  
книги за възрастта на  
детето**

31.03



20.04



**ZaYou в плюшения  
най-добър приятел**



**To be continued...**

**TUES FEST!**



Achievements

ZaYou and Safety

# Абсолютните човеци



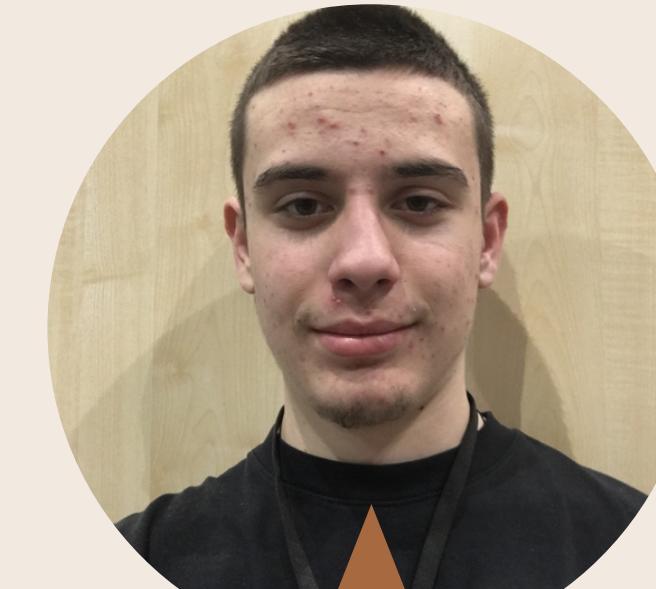
Алекс Тодоров

- Mentor
- Facilitator



Дара  
Панайотова

- Integrating & Customizing  
LLM



Филип Йорданов

- Process Innovator
- Software Developer



# Абсолютните човеци



Деян Иванов

- Software Developer
- UI&UX Designer



Рая Николова

- UI&UX Designer
- QA Tester



Борис  
Йорданов

- Software Developer



**Благодарим Ви за  
вниманието!**



**CONTACT US!**

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