AI ASSISTENT

WITH NLP AND PYTORCH

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Introduction

1. Advancement of technology has led to the digitization of almost all tasks, making them easier and more efficient for users.

2. Virtual assistants have become an integral part of our lives, allowing us to perform a range of tasks through voice or text commands.

3. This project focuses on creating a virtual assistant called GURU, designed to improve user productivity by managing routine tasks and providing information from online sources.

4. With the increasing dominance of voice searches over text searches, virtual assistants have become smarter than ever.

5. This project is based on the premise that there is sufficient openly available data and information on the web that can be utilized to build an intelligent virtual assistant capable of making informed decisions for user activities.

Objectives

1. Develop a user-friendly and efficient virtual assistant tool.
2. Perform tasks based on natural language commands.Provide accurate and reliable responses to user queries.
3. Use natural language processing algorithms and machine learning techniques to improve performance.
4. Provide users with a convenient and reliable tool for everyday tasks.
5. making lives easier and more efficient.

Software/Modules Requirments

Operating sytem:- Windows 10

Language:- Python 3

Python 3 Modules

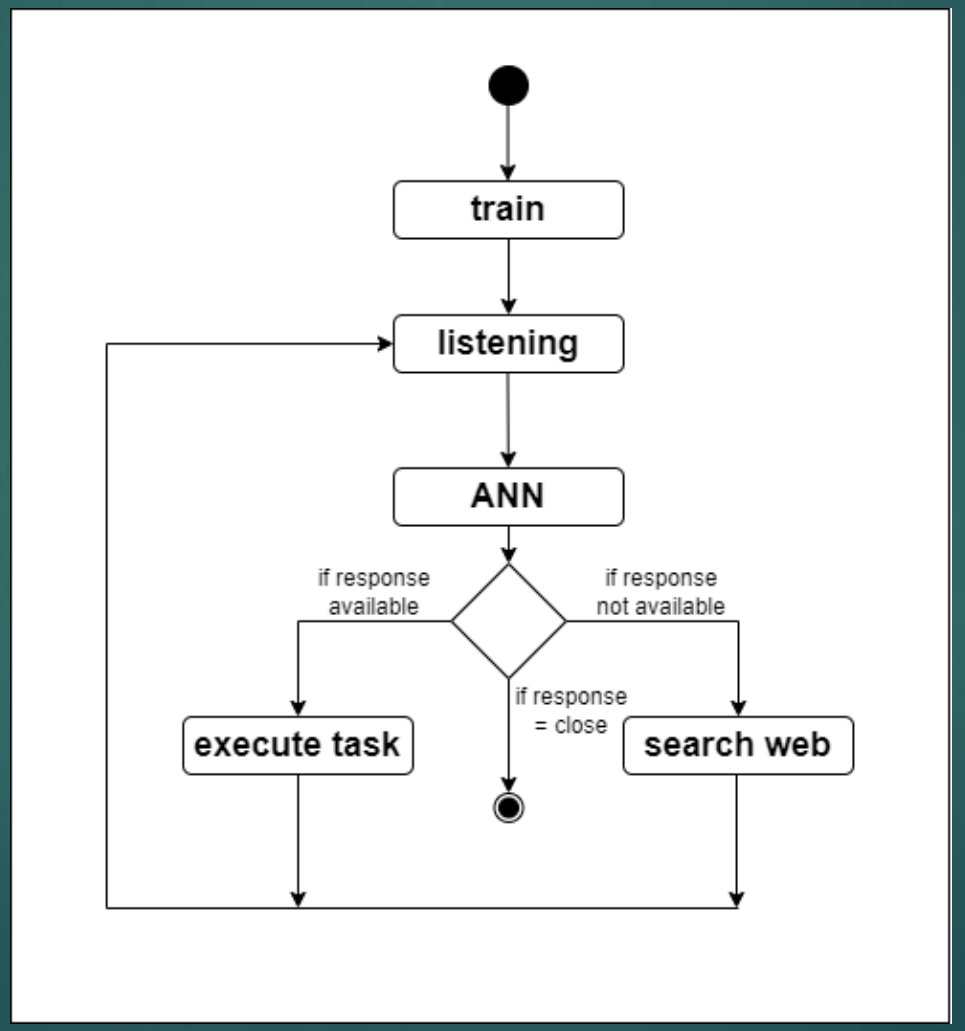
1. Speech_recognition
2. Googletrans
3. OS
4. Keyboard
5. Webbrowser
6. Time
7. NLTK
8. Pytorch
9. Json
10. Numpy
11. Random
12. Wikipidea

Hardware Requirments

1. **Processor:-** i3 4th gen 64bit
2. **Graphics Card-** RTX 1050 ti (Optional)
3. **Ram:-** Minimum 4gb
4. **Microphone** (optional)

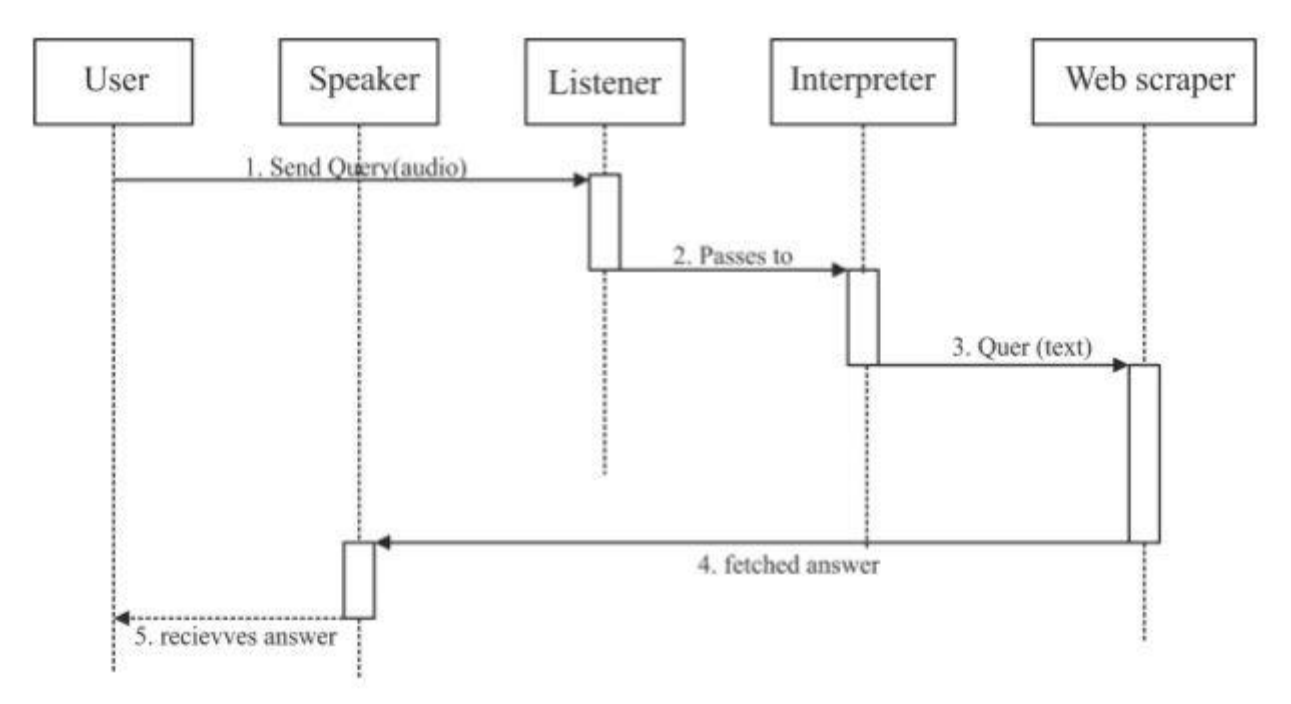
Diagrams-

1. Activity Diagram



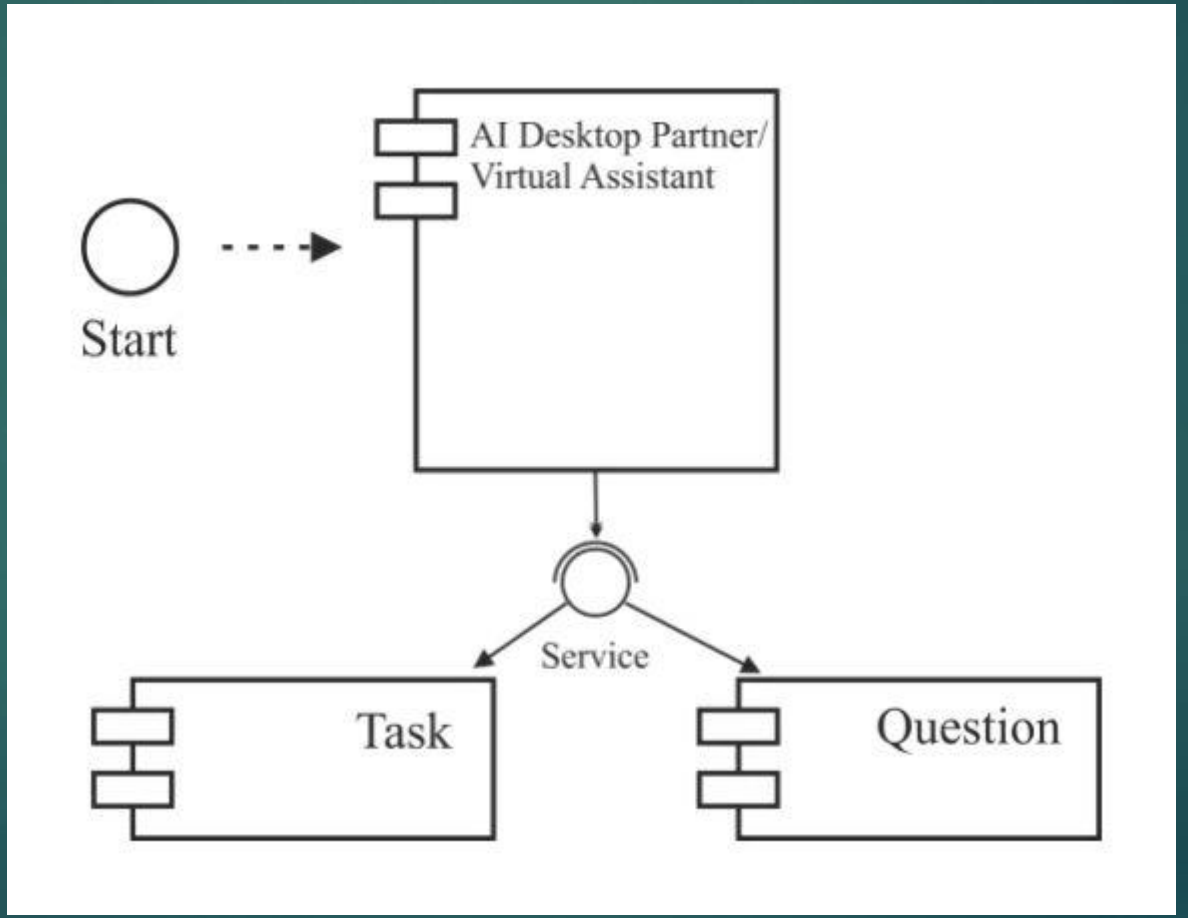
Diagrams-

2. Sequence Diagram



Diagrams-

3. Component Diagram



Thank You