Project Report ChatBot For Discord

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ChatBot For Discord

by

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Dedicated to our beloved teacher Syada Tasmia Alvi mam

Abstract

This is a chatbot system build in python using library and with Discord GUI.It will give you answers of the python related basic questions and read it using Discord API.

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Chapter 1

Introduction

1.1 Problem Definition

A chatbot is an automated software program that interacts with humans. A chatbot is merely a computer program that fundamentally simulates human conversations. A chatbot that functions through AI and machine learning has an artificial neural network inspired by the neural nodes of the human brain. Chatbots are programs that can do talk like human conversations very easily. For example, Facebook has a machine learning chatbot that creates a platform for companies to interact with their consumers through the Facebook Messenger application. In 2016, chatbots became too popular on Messenger. By the consequences is noted that 2016 was the entire year of chatbots. The software industry is mainly oriented on chatbots. Thousands of chatbots are invented on startups and used by the businesses to improve their customer service, keeping them hanging by a kind communication. According to research, nowadays chatbots are used to solve a number of business tasks across many industries like E-Commerce, Insurance, Banking, Healthcare, Finance, Legal, Telecom, Logistics, Retail, Auto, Leisure, Travel, Sports, Entertainment, Media and many others. Thus that was the moment to look at the chatbots as a new technology in the communication field. Nowadays various companies are using chatbots to answer quickly and efficiently some frequented asking questions from their own customers.

1.2 Objectives

1 . Making a Chat-Bot that can do some specific task.

2. Chatbot with a severe working method.

3. Chatbot with discord API.

4. Bot also can work with another website api.

1.3   Motivation

Discord is a real-time messaging platform that bills itself as an all-in-one voice and text chat for gamers. Due to its slick interface, ease of use, and extensive features, Discord has experienced rapid growth and is becoming increasingly popular even among those with little interest in video games. Between May 2017 and May 2018, its user base exploded from 45 million users to more than 130 million, with more than twice as many daily users as Slack.

One of the most attractive features of Discord from a chatbot developer's perspective is its robust support for programmable bots that help to integrate Discord with the outside world and provide users with a more engaging experience. Bots are ubiquitous on Discord and provide a wide range of services, including moderation assistance, games, music, internet searches, payment processing, and more.

1.4   Contributions

Bot coding with 1st code Md.Rafeul Islam Rafe, 2nd Md.Tamim Rahman Riyad. Md.Humayon Khalid and Md.Rafeul Islam Rafe team maintaining presentation project report-writing.

Chapter 2

Background Study

Chatbots has emerged as a hot topic in the latest years, and it is used by numerous companies in various areas - help desk tools, automatic telephone answering systems, e-commerce and so on. Even though the technology has been around since the 60's (Atwell Shawar, 2007). Why are we suddenly so interested in this technology now? This can likely be explained by the recent year's advancements in messaging applications and AI technology (Brandtzaeg Følstad, 2017).In the article Chatbots: Are they really useful? Atwell and Shawar provide real-life examples of different chatbots in different contexts. One of the examples is Sophia, a robot that was developed to assist in mathematics at Harvard by answering students questions. This turned out to be applicable in many other contexts. Living in Norway you have probably noticed "Kommune Kari". A chatbot that many of the municipality have available on their web-pages. Kari is there to answer "easy" questions like "when will the garbage truck come?" and "where can I find available jobs?". Kari's goal and the job is to provide information so that you as a user don't have to navigate the "massive information flow" (Schibevaag, 2017). This way of using a chatbot is a part of the Question Answering (QA) field which is a combination between AI and information retrieval (Molla Vicedo, 2007). QA can be defined as: "... the task whereby an automated machine (such as a computer) answers arbitrary questions formulated in natural language. QA systems are especially useful in situations in which a user needs to know a very specific piece of information and does not have the time—or just does not want—to read all the available documentation related to the search topic in order to solve the problem at hand". (Molla Vicedo, 2007). 4 Sophia and Kari are examples of chatbots that operate in "very specific" domains. This means that if you were to ask Kari about math and Sophia about when the garbage truck comes none of them would know the answer - because the question is outside of their domain. Chatbots have what is called a natural language user interface and therefore communicate with users via natural language how a human would talk on a regular basis (Brandtzaeg Følstad, 2017).

Therefore they use what is called natural language processing (NLP) where the chatbot uses computational techniques to analyze text, where the goal is to produce a human-like answer based on a linguistic analysis (Hirschberg Manning, 2015).

Chapter 3

Requirement Specification

1. Python.

2. Discord's API.

3. Another website ips.

4. Replit online IDE .

Chapter 4

Implementation and Testing

Picture from BOT working on discord with video in presentation .