Hetim Bot Powered By Natural Language Processing System

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Abstract - *A Chat robot is a computer program that conducts a conversation using auditory or textual methods. This program is often designed to simulate how a human would behave as a conversational partner and it is used in different practical purposes like customer service or information acquisition. The main purpose of this robot is to gain information in a fraction of second through texts using Natural Language Processing (NLP) system. This project helps the face book users with a robot to find out the various events, tech-meet up's, and job-facilities available in specific group of companies.*

1. INTRODUCTION

The main aim of this robot is to gain information in a fraction of second through text. A robot is any software that performs a automated task. The most intuitive definition is that a bot is software that can have a conversation with the human. For example user could ask the bot a query or give it as an instruction and the bot could respond or perform an action.Its true that the lines between application and a bot can become a little bit blurred that bots interact via a user interface. A bot however can be differentiated from an app in the way that interactions with the bot take place. The fact that bots are used directly in a communication channel means that the collaboration between the bot and a human agent is far easier to achieve

2. PROBLEM DEFINITION

This Project is entitled Hetim Bot as the main purpose of our project is to provide the Facebook users with a chatter bot which responds as a human partner. The user can log into his/her Facebook account and access our website in the page menu.An expected situation in the future does not have to be accepted. You can try to do something about it, by acting now. For defining a problem this implies that it is not sufficient to describe the existing state. Therefore, we speak consciously of the situation that someone is or is not satisfied with. As a result, a description of the situation is a description of a state plus the relevant causal model(s), including the assumed patterns of behaviour of the people and organisations involved. A situation is only a problem if the problem-owner wants to do something about it. This implies that a situation must be conceivable that is more desirable than the present one: the goal situation. The existing situation, however, can also be formulated in such a manner that a problem does arise.

3. OVERVIEW

This project is developed by using HTML,CSS as a front end, PHP as back end and MYSQL as Database. The main objective of our project is to provide an Artificial Intelligent robot for chatting service. This bot is integrate in artificial intelligent in messenger (Facebook) for chatting services. We create a page in Facebook and integrate this bot with the messenger (Facebook).

The following outline is provided as an overview of and topical guide to project management: Project management – discipline of planning, organizing, securing, managing, leading, and controlling resources to achieve specific goals. A project is a temporary Endeavour with a defined beginning and end (usually ime-constrained) undertaken to meet unique goals and objectives, typically to bring about beneficial change or added value. The temporary nature of projects stands in contrast with ongoing business operations.

4. PROBLEM OBJECTIVE

The main objective of this project is to reduce human resource. The bot replies to the message as per uers intent. Machine learning is a type of artificial intelligence that allow software application to become more accurate in predicting outcomes being explicitly program.

Because of using unsupervised algorithm we do not to train the bot with desired accounts instead they iterative approach to predict the outcomes. NLP is the main reason that the bot understands and derive meaning from human language in a smart and useful way.

Input and output of an NLP system can be-

- Written text
- Speech

5. EXISTING & PROPOSED SYSTEM

5.1. EXISTING SYSTEM

The number of apps have increased largely. It is harder to download so many apps, though useful, setup and manage and switch between them all. Bots won't replace apps—but will serve as a medium of using them. An application is a software program that's created to perform a specific function directly for the user or, in some cases, for another application program.

Drawbacks of existing system

- All the application are developed as an android application.
- No bots have been used.
- Making source code available to everyone invites the attention of the hacker.

- As there are many users sometimes it becomes difficult to connect all user.

5.2. PROPOSED SYSTEM

The proposed system is intended to overcome the major drawbacks of the existing system. This system has too many advantages. Less size, easy data sharing, easy to install, simpler authentication, and known interface. You don't even need to leave the communication platform. Also, with a bot, it is two-way. It initiates actions when you need it to, as well as responds to requests, it is like chatting with another human. Almost any transaction can be mapped to the messaging framework, so the future of bots seems to be rock solid.

6. DATA FLOW DIAGRAM

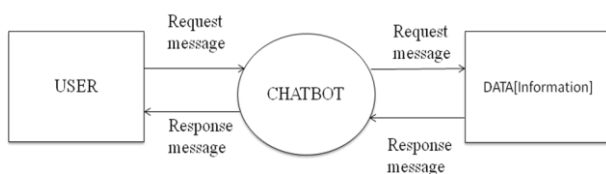Data flow diagram represents data flow, data process and data source/destination.
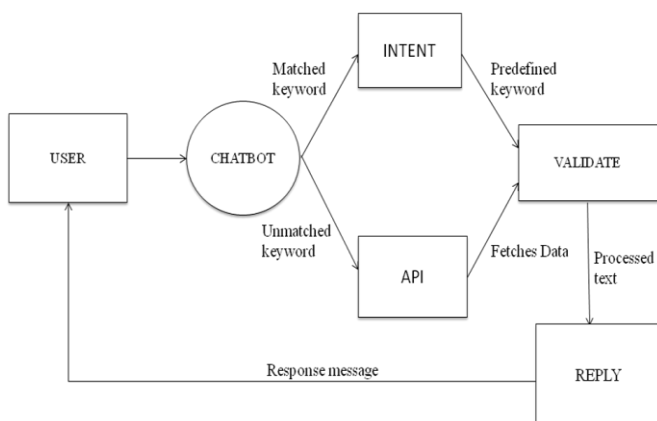

Fig-1 DFD LEVEL 0

Fig-2. DFD LEVEL 1

7. CONCLUSION

HetimBot helps the user to find the various events, tech-meet up's, and job-facilities available in the KG Campus. HetimBot also helps the user to fix appointment in the company and also helps the user to use all the services available in various companies such as Global Software Services and Business Software Services. It also helps in choosing the career opportunities such as International Voice Process, Hiring us it recruiter-urgent opening, Business Development Associate, RPA, Call Centre Associate and Recruiter (US Client Services).It helps the user to know about the events conducted in the company. Hetim bot is user friendly and it is very easy to understand and interrogate. Thus the HetimBot concludes to give clear information about all the available companies in specific group of companies.

8. FUTURE ENHANCEMENT

HetimBot is very useful in the future to get information about the companies available in the KG Campus and this bot can be upgraded in the future for more companies. These kind of new technology bots are welcomed in the future for easy and faster communication

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