

CHATBOT IMPLEMENTATION USING MOBILE APPLICATION

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ABSTRACT--

Today the users face a lot of problem regarding reviews of the movies in any android application because in most of the cases the user gets result more than what he expected or he gets results which are not according to his convenience. This paper focuses on automating the process of communication by use of chat-bot and it also focuses on providing customized results to the user which makes the process of Movies reviews and details convenient and user friendly for him. An extensive research done on existing systems gave us an insight into their shortcomings which this system attempts to overcome by creating a chat-bot using Artificial Intelligence Markup Language and using various algorithms such as Keyword Matching, String Similarity, Spell Checker and Natural language parser. The implementation of this system has resulted in better resource utilization and increased responsiveness of user behavior. This system has been implemented to integrate with any movie review Management Android Application to ease the process of movie reviews and story.

INTRODUCTION--This paper proposes to reducing paper work for the Movie reviews and hence improving its efficiency and speeding up all the process by using chatbot. A chatbot is a computer program which conducts a conversation via auditory or textual methods. The main objective of the chatbot is to understand the requirements of the user and to respond with the sufficient informations requested by the user. India has the fastest growing telecom network in the world with many users moving towards Smart Phones and majority by students. Android paves as a reliable software development kit issued by Google which provides developers with a huge comprehensive set of tools essential for building Android applications. If used properly, the SDK (Software Development Kit) and JDK (Java Development Kit) is able to deliver state-of-the-art software for Android devices In other words, the SDK includes only the basic utilities for Android app development. The information which we get from our mobile in a cost effective way and a person can get information easily and quickly, so this application is time saving and a person can be able to retrieve the movie review by texting the bot, the bot responds as soon as the message is delivered. A person has to enquire about a movie at first, moreover they have to make the conversation understandable by the bot. The bot will retrieve the data from the database and produce it to the end user. Further more activities can also be carried out using the bot regarding new releases.

AI CHATBOT:

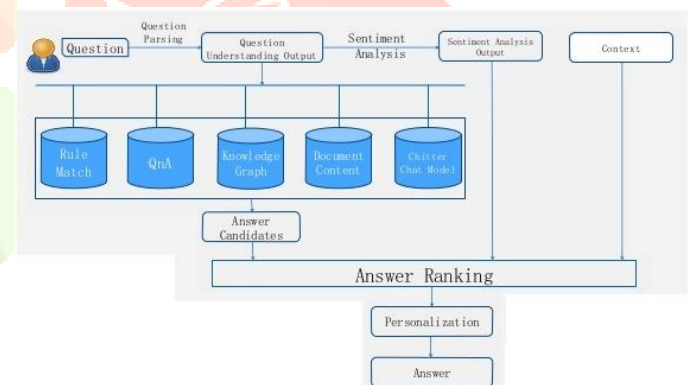
Chatbot is a computer program which communicates with the user without the use of Human intervention. These

Can communicate with users either by text messages and also by voice recognition. It behaves as the conversational partner where the computer program talks and retrieve the data which is required to the user easily. This reduces the labour work and increases the throughput.

MACHINE LEARNING:

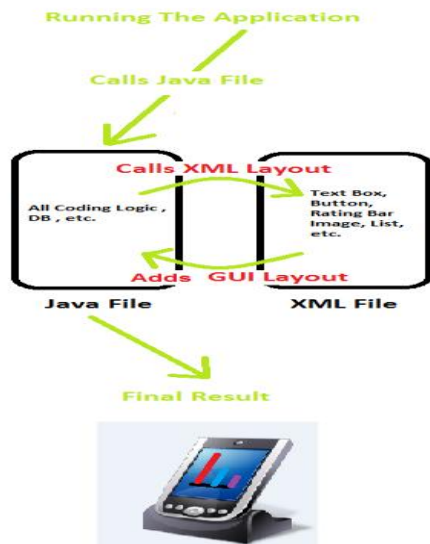
Machine Learning is the branch of Artificial Intelligence which deals with the study of teaching and make to learn computer by itself. Here the program learns the constraints by continuously subjecting them to prevail in the field and it learns automatically by itself similar to the humans. Here our program can receive the data either by textual messages or by the voice commands and then it processes the commands using regular expression concept and it finally fetches the result to the user understandable format.

ARCHITECTURE:



WORKING:

Here the user first asks the question to the chatbot by installing the chatbot on the android mobile. Here the given input is parsed by intermediate parser which changes the content from one form to the other format. Then it is first matched with the set of rules with the help of regular expression and then it is fed to IBM Watson. In IBM Watson, we are giving the possible questions and their respective types of replies in them as a response of that message. Then these responses are recorded with an individual unique id. Then these id's are taken into the account and fed to the Android Programming language which gives response to the user in the text format. Then the user finally gets the required result and then they can continue to the other requests or else they can simply quit.



TOOLS USED:

- 1. ANDROID STUDIO.

MODULES USED:

- 1.CHATBOT IMPLEMENTATION
- 2.IBM CLOUD INTEGRATION.
- 3.CHAT MODULE.
- 4.UPDATE MODULE.

MODULES DESCRIPTION:

1.CHATBOT IMPLEMENTATION:

Here We can create the virtual assistant using Android Studio IDE 3.0.1 (Tools) there is the front end xml language and middleware is the Java Language.

2.IBM CLOUD INTEGRATION:

Here we can get the Cloud data and add the dialog screen .. there is the available conversation cloud (free of cost) i.e IBM chatbot.. we want to integrate the IBM cloud into Android studio through the Unique id and password.

3.CHAT MODULE:

In this module the Customer can easily track the information of all the movies, theaters, as arrival time, departure time, number of seats available, charges details and many more.

4.UPDATE MODULE:

Again we can add the information IBM cloud conversation screen.Hence using this IBM cloud the administrator can be able to update and predefine the data that will be used for future purposes by the customers.

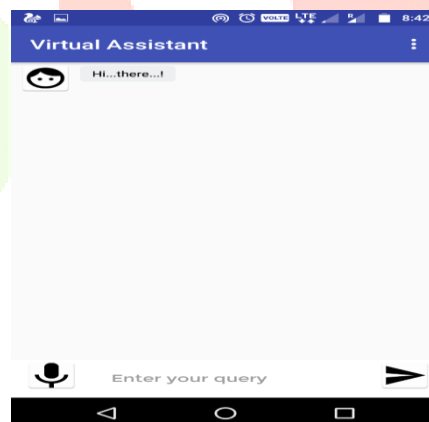
MODULE SCREEN SHOTS:

1.CHATBOT IMPLEMENTATION:

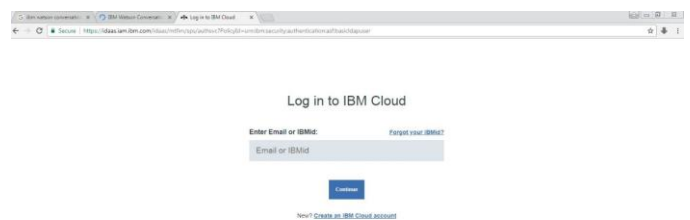
1.1.HOME PAGE:



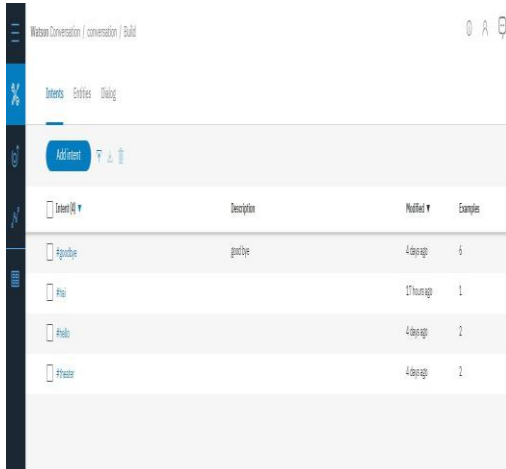
1.2. MAIN SC5CREEN OF THE CHATBOT:



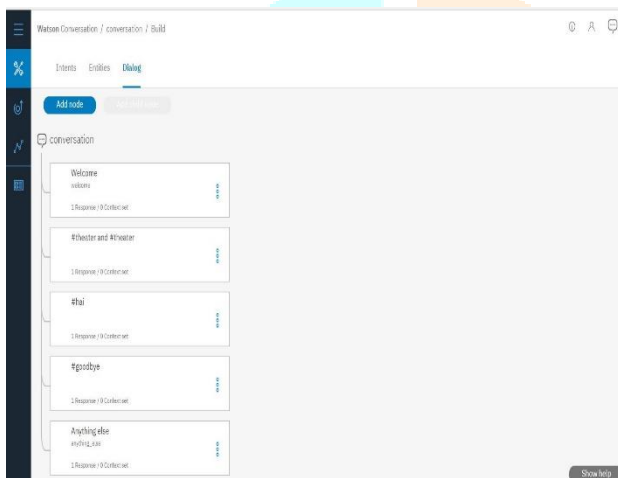
2.IBM CLOUD INTEGRATION:



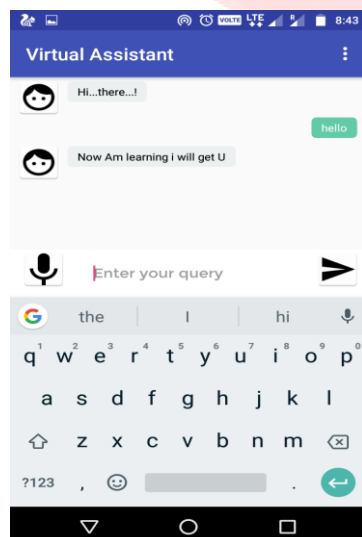
3. CHAT MODULE:



4.UPDATE MODULE:



OUTPUT SCREEN SHOT:



CONCLUSION:

This project has given me an ample opportunity to design, code, test and implements an application. This has helped in putting into practice of various Software Engineering principles and Database Management concepts like maintaining integrity and consistency of data. Further, this has helped me to learn more about Android, Java, JSON, XML and Adobe Photoshop 7.0.

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