ChatBot Enabled Wifi Chat Configuration System

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Abstract-Chatbot enabled Wifi chat configuration system is basically a chatterbot with enhanced chat communication using wifi which enables users to be connected in the case of poor internet connection. The chatbot will act as a personal assistant by responding to queries of users even if it is an irrelevant statement. The additional feature of wifi communication is that it will support nearby devices to remain connected in the occurrence of threat. The system does not need mobile networks for communication. It also allows group of application users to be connected. This system will be more useful for communication between users during natural calamities.

Keywords: Chatbot, Wifi, calamities, threat.

I. INTRODUCTION

Chatbots are software agents used to interact between a computer and a human in natural language. Just as people use language for communication, chatbots use natural language to communicate with users. The goal of chatbot was to resemble a human being in the way they perform interaction and trying to make user think that they are speaking to a human. An effective feature that will make ease of communication of devices possible through hotspot. Chat robot is a computer program that simulates human conversation, or chat, through artificial intelligence. Typically, a chat bot will communicate with a real person, but applications are being developed in which two chat bots can communicate with each other. A chat bot is also meant to be a chatterbot. Today's bots aren't trying to pass for humans, unlike their predecessors, rather their job is to provide information or complete tasks for the humans they interact with. Wifi is the name of a popular wireless networking technology that uses radio waves to provide wireless high-speed Internet and network connections. A common misconception is that the term Wi-Fi is short for "wireless fidelity," however this is not the case. Wi-Fi is simply a trademarked phrase that means IEEE 802.11x. Tethering, or phone-as-modem (PAM), is the sharing of a mobile device's internet connection with other connected computers. Connection of a mobile device with other devices can be done over wireless LAN (Wi-Fi), over Bluetooth or by physical connection using a cable, for example through USB. Wifi Tethering is the ability to share a smartphone's Internet connection with computers or other devices. It can be accomplished by connecting the devices with a USB cable, a Bluetooth wireless link or a Wifi connection.

II. RELATED WORK

AI based chatbots are also called as software agents that interact with the user in a

conversation method. The goal of their creation was to resemble a human interaction which makes the user think that he/she is talking to a real person.). They used Artificial Intelligence Mark-up Language (AIML) for chatbot KB (Knowledge Base) [1].Chappie is a semi-automatic Intelligent chatbot was designed to meet the business requirement in order to automate the personal assistant. Now it is being used as a routing agent where it can simply categorize the needs of user and deliver it as a business service based on the first few chats itself. Once it gets the details of a specific user, it transfers the chat as a human agent [2]. An intelligent chat bot for banking system provides information or answers to the question related to bank asked by users. The system first takes input from customers either in voice or written format and then it processes the queries and generate response to user. The system also available in web [3]. Design of chatting application based on Android Bluetooth provides the communication on low-cost and low-power basis. Wireless communication through Bluetooth technology in a mobile communication is the concept here. The two-way communication within a short range occurs without the support of networks. Bluetooth is integrated into Android application which forms as a smartphone platform for mobile communication. The emerging android technology will form an open source and powerful application. The messages can be exchanged between smartphones via Bluetooth technology [4]. Enhanced Chat Application for professional users of institutions like schools, colleges and industrial sectors. The first designed module was a normal chat application, but it lacked in explaining diagrams wherever needed. So, they integrated a paint like editor to its chat window. Hence the pictures are easily drawn

and sent through chat window [5]. Joker Chatterbot Re-Wochat is a shared task chatbot system. The chatterbot is an example of system which uses a database of indexed dialogues. The chatterbot aims at building a generic intelligent user interface for providing a multimodal dialogue system with social communication skills. The main aim of the project is to entertain people with interactions taking place in a social environment [6]. Wireless based chatting using Android Communication will provide communication for everyone to share their knowledge. The main approach focuses here is Bluetooth chatting, through which one can exchange ideas, chat with friends etc.., It provides low power cost and free of cost connection among the connected mobile devices. The advantage of this system is that it is easy to control and non-visual distance limitations. This application is used to chat either with a single person or with more than two persons like in group chat [7]. Doctor Patient Data sharing using Android Chat Application involves communication between doctors and patients. Today there are lots of Chat applications came in market that are useful for information sharing and data sharing. There were some doctor patient chatbot which demands mobile number of doctors for the patients to get help. This system helps the patient to get treatment of illness from his choice of choosing the doctor [8]. Mobile conversational commerce is a messenger chatbots acts as the next interface between businesses and consumers. Moreover, using a real life time experiment it generates distinctive results. Organizations wanting to deploy messenger chatbots, marketers and chatbot developers should consider compatibility of the consumers' lifestyle [9].

III. PROPOSED SYSTEM

The Chatbot technology will be integrated with the wifi communication module. There were number of chatbots available from the 20's beginning itself. But each one of them will be lagging in some features. Thus the presence of Chatbots in the evolution of mobile computing is a considerable one. This is the predecessor for the advanced artificial intelligence branches like humanoid robots, autonomous vehicular robots etc. The concept of machine learning will make the system learns from the conversation automatically. The chatbot will be artificially trained to simulate response according to user's input and state. There will be more relevant response in our conversational agent. The responses are stored in the backend with the help of API interfaces. AIML is the special language designed specifically to generate artificial responses. The user's previous responses will be stored in historical data as a Database. The chatbot will acquire knowledge either from the previous responses (Chat logs) or from the database. Thus, it will simulate a worthwhile response artificially like humans. The queries which take minutes to solve will be solved by the system in seconds. Next, the wifi configured communication is used here. All the users need a wifi and hotspot enabled Mobile device for accessing this feature. This can also enhance group communication. The concept behind in this system is it will turn on the Hotspot of any willing users (primary device) and the potential users (up to 5 slave devices) can be connected over that hotspot. So, it is just like these seven devices are in "Connected mode" via the main router (the one who first turned ON the Hotspot in his/her mobile). And thus they can share information within a range of 200 Meters. Moreover, the connection will be more reliable and needs no Internet cost as it is not a network-oriented connection.
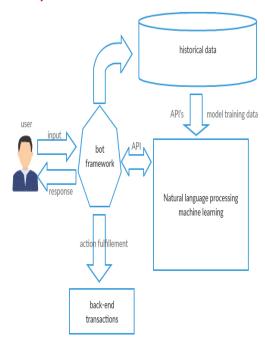
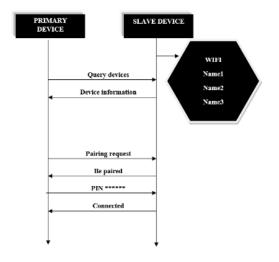

Figure 1: SYSTEM DESIGN FOR CHATBOT

Figure 2: SYSTEM DESIGN FOR WIFI COMMUNICATION

IV. DISCUSSION

The concept behind in the system is to ensure a human like response to the human who use this system. And the advantage is that the response will be more relevant and gives

meaningful response or session to the user. As it stores the chat logs into the database, it refer the past views, emotions, likes, dislikes and interests easily from the human and respond accordingly to the user. The next feature will be more interesting that this system can enhance communication over other application users and can enable this even without internet. The main advantage of this module is that it don't need SIM [Subscriber Identity Module].

V. CONCLUSION

The proposed system in android application will be very helpful in securing the people in danger through the Wifi communication module and can also do tremendous change in the Wifi technology. Wireless chatting is a creative approach to the mobile environment. Remember the days when flood occurs and done a great damage to our state, so many people suffered from starvation due to the inability of communication. The chat application is proved that the people could have a better experience of chatting.

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