Intelligent Customer Help Desk with Smart Document Understanding

PROJECT REPORT

1. PROJECT SUMMARY

- A customer care chat bot can answer simple questions, such as store locations and hours, directions, and perhaps even making appointments.
- In this project, the queries will be handled in a better way.
- If the customer's question is about the operation of a device, the application shall pass the question onto Watson Discovery Service and we can handle the queries in a better way.
- We will build a chat bot that uses various Watson AI Services like Watson Discovery, Watson
 Assistant, Watson Cloud functions and Node-Red and deliver an effective user friendly Web
 User Interface.
- Artificial Intelligence(AI) is a science of making intelligent machine that are able to learn rules for using information in order to reach approximate conclusions.
- In this project we are going to create a chat bot which is intelligent conversational system and able to process human language. They themselves provide a platform for promotions of the products and services in online. For example, sir i is an intelligent agent used by Apple, reacting to the user spoken language. In the recent years, we are starting to see a variety of chat bot applications across industries and business processes using further advanced artificial intelligence technologies, as well as a growing number of technology platforms to facilitate them.

2. PROJECT REQUIREMENTS

- There must be some features that needs to be keep in mind while thinking before developing this, these are -
- Respond immediately: It can help to avoid long wait times for phone-based customer support agents or even longer wait times for email and even form-based support.
- Keep it conversational: Chat bot make it very easy for all the users to find the information they need.
- Improve Loyalty:-By helping users in the correct way without doing any type of formality will gain user's satisfaction, efficient experience.
- The minimum project requirements for chat bots are as follows: OS: Mac so high sierra, Windows 8.1, Windows 10,

Processor: 1.8 GHz Intel Core i5 or greater, Memory: 8GB RAM, Graphics: Intel HD Graphics 6000 1536 MB, DirectX: Version 11,

Network: Broadband Internet connection, Storage: 2GB available space

3. FUNCTIONAL REQUIREMENTS

- If the chat bot does not understand the input, it should ask for more simplified input.
- If the chat bot understands the input, it should respond with correct information.
- If the chat bot needs more information to find an answer, it should ask for more information.
- The chat bot should use a text recognition API to understand all kinds of inputs.
- The chat bot can send a data as a text message.
- The bot should able to guery the data from the API.
- The chat bot should create private cloud or virtual machine instances from user input.

4. TECHNICAL REQUIREMENTS

- GIT and GitHub
- IBM Watson Integrated Development Environment(IDE)
- Zoho Document writer
- Watson Al
- Node JS

5. SOFTWARE REQUIREMENTS

- Watson Assistant
- Watson Discovery
- Node-Red

6. PROJECT DELIVERABLES

 Instead of sharing only PDF documents that few people ever read, the better option is to make Chat bots with smart document understanding which can provide the relevant sections from a manual or a group of documents. We intend to implement a chat bot with smart document understanding using IBM Watson Platform.

7. PROJECT TEAM

Utkarsh Bhardwaj – Project Manager
 Sophomore at Delhi Technological University, New Delhi

8. PROJECT SCHEDULE

• The project is for a duration of 30 days starting on 15th May.