

MANIBot CHATBOT USER GUID
ASSIGNMENT 02
CO3251-NATURAL LANGUAGE PROCESSING

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INTRODUCTION

Welcome to the MAH Super-Market chatbot guide. MANI Bot is designed to assist you in finding the items you need in our store. This guide will help you understand how to interact with the bot effectively and efficiently.

GETTING STRATED

When you start the chatbot, you will see a welcome message:

Bot:
Hello! I'm MANI Bot, and I'm here to assist you in finding the items you need. What can I help you shop for today?

INTERACTING WITH THE BOT

Greetings

You can greet the bot using various phrases, and the bot will respond with a friendly greeting. Here are some examples:

User:
Hi
Bot:
Hi there! I'm here to help you find anything you need. What are you looking for?

User:
hello
Bot:
Hello! Welcome to MAH Super-Market. How can I assist you today?

Finding Items

To find an item, simply ask the bot where the item is located. You can use phrases like "I want to find [item]" or "Can you find [item]?". The bot will provide the shelf number where the item is located.

User:
i want to find milk
Bot:
milk is located at shelf 3.

User:
can you find bread?
Bot:
bread is located at shelf 4.

If the item is not available, the bot will inform you:

User:
i want to find wheat
Bot:
Sorry, wheat is not available today.

Generating a report

You can ask the bot to generate a report of all the items you have queried during your session. To do this, simply type "report". The bot will list all the items and their shelf locations.

User:

Can you give me item Report?

Bot:

Here is the location for your items:

Item	Shelf Number
-----	-----
milk	3
bread	4
eggs	5

Have a Nice day!! If you need further assistance, I'm here to help.

Expressing gratitude

You can express gratitude, and the bot will acknowledge it:

User:

thank you

Bot:

You are welcome. Anything else do you want to find?

Ending the conversation

To end the conversation, you can type "bye". The bot will generate a report (if there are items queried) and bid you farewell:

User:

Bye

Bot:

Here is the location for your items:

Item	Shelf Number
-----	-----
milk	3
bread	4
eggs	5

Have a Nice day!! If you need further assistance, I'm here to help.

Generating pdf file

If you want to generate a report of all the items you have queried, you can ask the bot to create a report. The report will be generated in PDF format and saved as `report.pdf`.

User:

Can you generate a report?

Bot:

Here is the location for your items:

Item Shelf Number

bread shelf_number

milk shelf_number

A PDF report has also been generated. Have a nice day!! If you need further assistance, I'm here to help.

MAH Super-Market - Item Location Report

Pork: Shelf shelf 10

Soap: Shelf shelf 31

Milk: Shelf shelf 3

DATA FILE('data.txt')

The `data.txt` file contains the list of items available in the store and their corresponding shelf numbers. Here is the content of the file:

```
apple: shelf 1
banana: shelf 1
orange: shelf 2
milk: shelf 3
bread: shelf 4
eggs: shelf 5
cheese: shelf 6
butter: shelf 6
yogurt: shelf 7
chicken: shelf 8
beef: shelf 9
pork: shelf 10
fish: shelf 11
rice: shelf 12
pasta: shelf 13
flour: shelf 14
sugar: shelf 15
salt: shelf 16
pepper: shelf 17
oil: shelf 18
vinegar: shelf 19
cereal: shelf 20
coffee: shelf 22
```

TECHNICAL DETAILS

NATURAL LANGUAGE PROCESSING(NLP)

The bot uses Natural Language Processing (NLP) techniques to understand user queries and respond appropriately. Here are some key NLP processes involved:

- **Tokenization:** Splitting the user input into individual words.
- **Part-of-Speech (POS) Tagging:** Identifying the grammatical roles (nouns, verbs, etc.) of the words.
- **Lemmatization:** Reducing words to their base or root form.
- **Named Entity Recognition (NER):** Identifying items in the user input.

USAGE INSTRUCTION

1. **Starting the Bot:**
Launch the MANI Bot by running the chatbot application.
The bot will greet you with a welcome message.
2. **Greet the Bot:**
You can greet the bot using phrases like "hi", "hello", "hey", etc.
The bot will respond with a friendly greeting.
3. **Finding Items:**
To find an item, type phrases like "I want to find [item]" or "Can you find [item]?".
The bot will provide the shelf number where the item is located.
If the item is not available, the bot will inform you.
4. **Generating a Report:**
To get a report of all items you have queried, type "report".
The bot will list all queried items and their shelf locations.
5. **Expressing Gratitude:**
You can thank the bot by typing "thank you" or "thanks".
The bot will acknowledge your gratitude and ask if you need further assistance.
6. **Ending the Conversation:**
To end the conversation, type "bye".
The bot will generate a report of all queried items and bid you farewell.

CONCLUSION

The MANI Bot chatbot is designed to enhance your shopping experience at MAH Super-Market by providing quick and easy access to the locations of items within the store. By using natural language processing, the bot can understand and respond to your queries effectively. Whether you need to find a specific item, generate a report of queried items, or simply receive a friendly greeting, MANI Bot is here to assist you. We hope this user guide helps you make the most of your interactions with the chatbot. Happy shopping!