**VOICE BASED E-CHANNELING SYSTEM AND DOMAIN SPECIFIC VOICE BASED AI TRAINING FRAMEWORK.**

Project ID: 2020-016

Final Report

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B.Sc. (Hons) Degree in Information Technology.

Department of Information Technology

Sri Lanka Institute of Information Technology

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September 2020

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# DECLARATION

“I declare that this is our own work and this proposal does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any other university or Institute of higher learning and to the best of our knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text. Also, I hereby grant to Sri Lanka Institute of Information Technology, the nonexclusive right to reproduce and distribute my dissertation, in whole or in part in print, electronic or other medium. I retain the right to use this content in whole or part in future works (such as articles or books).”

|  |  |  |
| --- | --- | --- |
| Name | Student ID | Signature |
| Hariharan Vasudevan | IT17044400 |  |

The above candidates are carrying out research for the undergraduate Dissertation under my supervision.

Signature of the supervisor: Date:

…………………………….. ………………………………

(Dr. Dharshana Kasthurirathna)

# ABSTRACT

Currently most of the people uses e-Channeling services to channel a doctor. Channeling a doctor from anywhere and anytime is precious. Most of the e-Channeling services require a lot of fields and forms to fill out in order to channel a doctor. While using these applications many elderly people face problems due to English literacy, Computer Literacy and travelling between multiple screens while channeling a doctor [1] [2].

Most of the applications in the market lacks user interaction, user experience, notification alert and none of them has a virtual AI assistant to channel a doctor easily. They provide several forms and complex user interfaces for channeling a doctor.

The proposed system can take the user inputs as voice or text commands with few steps and complete the doctor channeling task. The motive of this research component is to provide an AI Chat-bot assistant working behind the scene to help the user. This system takes voice or text commands with few interactions. Then the system analyses the inputs using Natural Language Processing (NLP) component. Later, this provides a dialogue flow for the user input. Together enables the connection between a backend API, which can make appointments. Finally, the system provides a well formatted reply to the user.

Implementation of this system solves the language and computer literacy barrier by providing an end-to-end voice-based AI assistant. User interactions and user experience will be better due to the interaction of this AI assistant. This part mainly focuses on developing the AI Chat-bot assistant.

# ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to our supervisor Dr.Dharshana, who gave me the opportunity to do this Research, which also helped me in doing voice based end to end chatbot and I came to know about so many new things I am really thankful to them.  
Secondly I would also like to thank my parents and friends specially our research group members Lokugamage G.N, Yahampath A.D.N.H, Weerathunga W.A.H**,** who helped me a lot in finalizing this project within the limited time frame.

Thanking you

Hariharan V

IT17044400

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# LIST OF ABBREVIATIONS

|  |  |
| --- | --- |
| Abbreviation | Description |
| AI | Artificial Intelligence |
| NLU | Natural Language Understanding |
| NLT | Natural Language Text |
| API | Application Program Interface |
| BOW | Bag of Words |
| CRF | Conditional Random Fields |
| FAQs | Frequently Asked Questions |
| AIML | Artificial Intelligence Markup Language |
| SVM | Support Vector Machine |
| NLP | Natural Language Processing |
| Seq-2Seq | Sequence to Sequence |
| IT | Information Technology |
| En | English |

# 1. INTRODUCTION

## 1.1 Background literature

AI Chatbot assistant is one of the most evolving area globally. Era of Chatbots started on 19th century. Making the first Chatbot on 1960s by MIT professor Joseph Wizenbaum, which is ELIZA. Many better forms of Chatbots were introduced in the second half of 20th century [3]. Chatbots were developed to help humans in clarifying their doubt’s, to help in certain applications such as: online booking, to help in suggestions providing and to help in many other instances. Chatbots understands the Natural Language Text (NLT) provided by the user, it processes the NLT using a powerful implementation behind the scene and provides a set of instructions or a reply message based on its understanding.

Chatbots are classified into five levels till now, they are:

* Notifications Assistants: Provides a notification to the user. Messaging application like WhatsApp uses this level.
* FAQs - “chatbots”: This is the most common types of chatbots. Where it lets the user to ask simple questions and get the answers. Uses state machines or set of rules. This is very easy to build, but at the same time this is error prone.
* Contextual AIs: In every conversation context matters. Context influences a speech direction. Contextual AIs uses contexts to handle the conversation gracefully and to make decisions on the dialogue flow.
* Personalized Assistants: These types of AI assistants study a human, their preferences and other important details. Later provides the user with suggestions and chats according to their preference.
* Autonomous Organization assistants: In future, these types of assistants will individually get to know about every customer related to an organization and provides services to them. This also helps in Finance, HR, Claims, Admin, Sales etc. [31]

The research question is “What is the most accurate and faster way of analyzing the text and transferring the request to the back-end API?”. Focus of this component is to provide a solution for the research question. So basically, this paper uses one of the most powerful AI chatbot framework named RASA Chatbot Framework, using this framework a brand-new domain specific AI chatbot is created to make an appointment and by having fewer steps to complete the appointment making task while interacting with the user. [32]

This chatbot framework uses the third level of AI assistant which is the ‘Contextual AIs’, context plays an important role in a conversation. So, this conversational AI chatbot uses context as the base and have powerful technologies working behind the scene to provide the ultimate service. This chatbot is capable of handling incorrect dialogue flow and to turn the incorrect dialogue to a normal chat. Additionally, a backend API is developed using spring boot framework, this is a REST full API which handles all the online booking, doctor querying functions etc. RASA chatbot framework uses a file called as an action.py file in order to communicate with these backend API.

There are several other files which takes care of a lot of other things. They are:

* Nlu.md: Which holds all the training data relevant to a specific domain. And tells the machine learning algorithm how to extract details from the user’s chat.
* Stories.md: This file stores possible dialogue flow and teaches the machine learning algorithm on how to take the chat flow from beginning to the end.
* Actions.py: This file helps in handling dynamic replies, to film form faster etc.
* Domain.yml: This is the file which registers all the intents, entities, slots (memory of chatbot), forms and responses.
* Endpoitnts.yml: Basically, stores the endpoint details where the connection is established.
* Config.yml: All the configuration details are stored in this file.

Chatbot helps to extract the intents and entities from the natural language text provided by the user. Natural Understanding Model (NLU) component is used in this situation to extract the intents and entities. The concept of intents and entities plays an important role in a chatbot conversation. Intent represents types of user needs while the entity represents a state that is relevant to the intent. User inputs are very unclear and biased for a machine to understand. So firstly, the natural language text should be converted to a machine understandable format, which is referred to as the intent and entity. Algorithms such as Conditional Random Fields (CRF) and Bag of Words (BOW) are used to extract the intents and entities [4] . Many existing systems and research papers have used the BOW algorithm for feature extraction. BOW is one of the best algorithms in order to extract features according to most of the interpretations [5] [6] . BOW is a simple model, used for the word manipulation scenario. This is much faster than the Tf-idf algorithm as it needs only less computational power [7] .

The extracted intents and entities are sent to another component which uses machine learning models and policies to form a reply. A policy class decides which action to be executed at every step in a conversation [8] [32].

As mentioned in the abstract most people use e-channeling applications. This is one of the vast areas evolving in many countries. A recent survey was carried out to get an idea about e-channeling services and the current problems faced by the users. Almost all the users stated that e-channeling service is a very beneficial service; Figure 1.1 refers to the response.

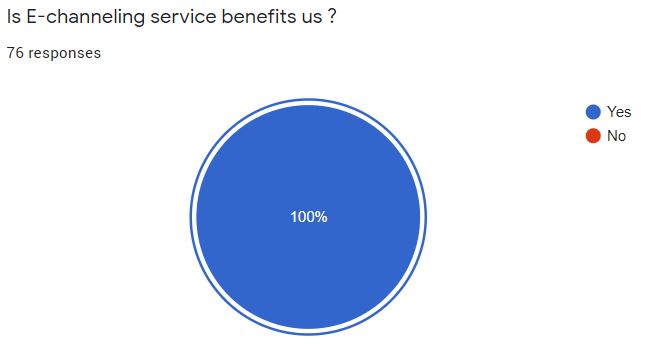


Figure 1.1 - Summary of responses for beneficial of e-channeling services

These days most of them need instant solutions, accurate and efficient results within short period. In addition, people who face difficulties due to English and IT literacy face a critical problem in channeling a doctor. Filling forms and travelling between multiple screens make users tiresome and frustrating. Existing e-Channeling services do not provide any Chatbot assistant to help the users.

Most of the systems available for online appointment management are very basic with switching between multiple screens, many forms and frustrating user interface.

Our survey concluded that 40.8% of people were bothered about filling large forms, around 31.6% of people faced bad user experience and filling forms multiple times Figure 1.2 refers to the summary of problems faced by the users. About 72.4% of people does not want to have larger forms and most of them want comparisons to be made about doctors, symptoms and suggestions Figure 1.3 refers to the summary of facilities needed.

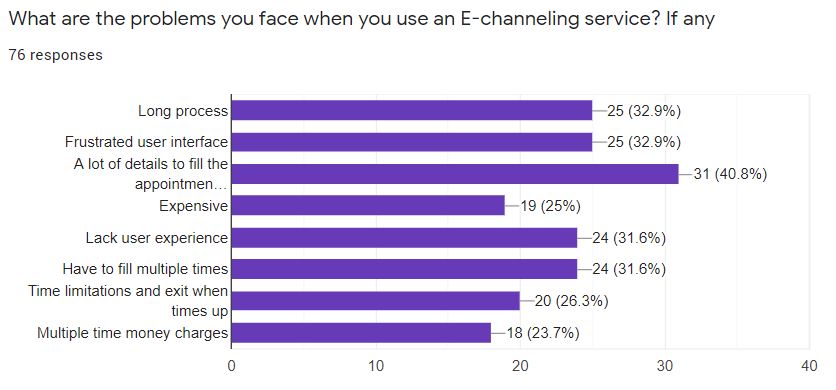


Figure21.2 - Summary of problems faced by the user

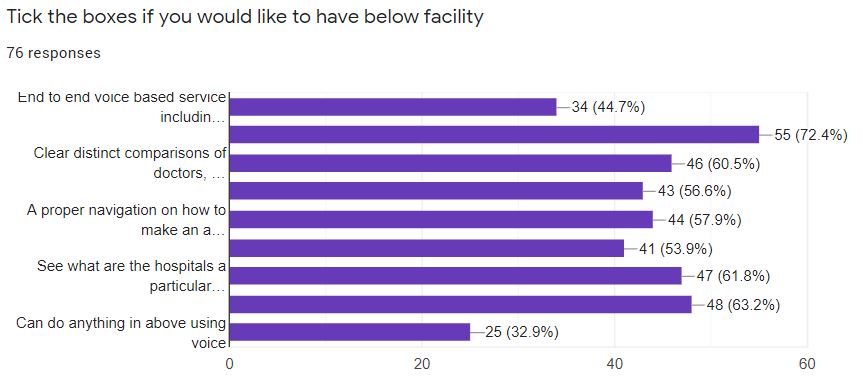


Figure31.3 - Summary of facilities needed

The first ever chatbot which is made by the professor M.R Joseph Wizenbaum as mentioned above in the introduction had several bad reviews from the user and was not much better, but it was performing averagely. This chatbot uses a technique called as pattern matching and substitutional methodology to simulate a conversation.

This is developed to mimic human conversation. This chatbot passes the text input from the user to the computer and uses a technique to pair them to a possible scripted list of responses. These responses were provided to the user, many users argued about the response from the chatbot.

These chatbots were not much better when compared to a contextual AI. A domain specific contextual AI can identify different patterns of the user’s request, to identify the chat flows, to drive the chat when something wrong happens and connecting to a backend API to provide a complete service. The responses from the chatbot is more accurate compared to ELIZIA. Contextual AI uses:

* powerful machine learning algorithms to extract user input, to analyze the user input, to select the next dialogue, to handle errors or wrong conversations, to select the right most backend API to provide a complete function etc.
* Policies are powerful techniques which is used in several places such as:
  + Memorization Policy is used to memorize certain amount of conversation history and context. Later, the user request is analyzed to predict the next action.
  + Mapping Policy is used to directly map the intents with the action.
  + form policy is used to enable the user to fill details or simply to fill form, example helps to capture patient’s details.
  + Fallback policy is a policy to handle the errors and it brings the incorrect dialogue flow to a normal dialogue flow.
  + Many more policies are used but these are few main policies used to make this chatbot.
* Slot is also known as a bot’s memory. A slot is used to store the extracted entities or the outcomes from the backend API to make the chat more meaningful. These stored data are used in the conversation later.
* A set of pipelines are used to help to do more functionalities. They are:
  + WhitespaceTokenizer is a pipeline which is used to separate the words based on the white spaces.
  + RegexFeaturizer is another pipeline which is used to match regex format with the training examples provided in the project.
  + CRFEntityExtractor is a pipeline which is used to extract the entities from the user text.
  + EntitySynonymMapper is a pipeline which is used to match the synonyms such as work can be said as job. So, it matches both the words.
  + Many more pipelines are used but these are few pipelines used to make this chatbot.

Contextual AI assistance can outperform these kinds of chatbots. These chatbots are well trained, tested and have a high accuracy compared to other chatbots [32].

Artificial Linguistic Internet Computer Entity (ALICE) is an Artificial Intelligence Machine Language (AIML) format chatbot. This does not use complex machine learning algorithms to generate a reply message.

ALICE is being used from year 2002, this is an open source chatbot. Wallace is the founder of ALICE in 1995. ALICE works a bit different and its “chatbot engine” and “language knowledge model” are individually isolated. Other language model can plug in and played.

ALICE is a bit different compared to other chatbots which uses NLU related technologies. ALICE works by matching the huge rule-base provided by the developers. Simply ALICE works by a pattern matching methodology using the rule-base, this matches the input pattern to the output template. Rule-base is not a smaller part, it is a huge one: default system comes with 50,000 categories, but there are rule-base developed over a million categories or rules.

RASA chatbot framework is quite different from ALICE. There is a technique provided in ALICE to train the catboat for a specific domain. Rasa as mentioned earlier it uses powerful Machine learning models and several other pipelines to build up and deliver a conversation. The context as said before it is helping this chatbot framework to stand first compared to other chatbots [33].

Another type of chatbot is FAQs based chatbot, which extracts knowledge from online discussion forum. In their research <thread-title, reply> is extracted from the online forums using SVM classifier. These extracted pairs are ranked accordingly. The top ranked pairs are taken as the knowledge base of the chatbot.

Most of the studies and research papers show that using FAQs and online forums to extract knowledge base is one of the simplest and easiest method to train a chatbot. This is not really time consuming, but FAQs or online forums can be error prone or cumbersome. Researchers say that FAQs based chatbots are better for a domain specific chatbot.

Online forums are a way of indirect communication and discussion with people. Each question is taken as a thread. Replies are taken the result of the thread. Comparing this research with RASA, RASA is also capable of training a chat which is a domain specific area. Rather than just providing answers for the question like FAQs based chatbot, our research can perform tasks such as making an appointment with doctor. Online forums are a good way of inspecting and extracting knowledge. It is good for a domain specific area, but still it has its own drawbacks, such as: it cannot handle dynamic chats, handling complex errors, performing actions etc.

RASA chatbot is way better compared to these chatbots, as said earlier RASA chatbot uses context to perform a communication, handles complex errors easily, can be trained easily etc. [34]

Another way of building a chatbot is using machine learning models. Reinforcement learning is one type of machine learning model. In a research they used deep reinforcement learning to build a chatbot. It was named as MILABOT. This was competing for the Amazon Alexa prize competition. This chatbot can communicate through speech and text. This system is combined with retrieval models and natural language generation. Reinforcement learning is used in this chatbot and due to this machine learning model, it is a quite better than the other chatbots which was competing the Amazon Alexa prize competition.

Several other models were used with the reinforcement learning model. BOW or bag of words model, latent variable neural network models, seq-2-seq or sequence to sequence model, Template based model and neural network.

RASA is also capable of using these machine learning models for its implementation. This model already uses BOW, CRF and other machine leaning models.[35]

A chatbot for customer service on social media is another research which trained around 1 million twitter conversations to respond to the user. Sometimes people turn out to social media sites to clarify doubts. Some of these doubts are clarified but, some of these are questions are clarified partially or not at all. This research has come up with a chatbot to solve the above problem.

The chatbot is integrated with state-of-the-art deep learning techniques. This chatbot is more likely to help people and this chatbot is emotional too. Training the system might be very time consuming.

RASA provides the ability to understand the text formats firstly, then after training the core model, RASA allows to make API calls to provide very dynamic messages and our voice based contextual AI assistant is more powerful than this research. [36]

Google duplex is one of the most wonderful AI powered assistant, which makes appointments [9]. Google duplex calls the specific hospital for making an appointment. Calling a hospital and checking the availably and making an appointment is better but comparing the doctors cannot be done using this system [10]. Addition to that Google duplex cannot capture the symptoms and provide the type of specialization to make an appointment. It handles the conversation between the callers marvelously and smartly in 2018 I/O event [10]. Still calling for making an appointment can be fragile, since humans are very hard to understand by a machine. Which may result in a broken conversation.

There are many AI assistants, e-Channeling web services and mobile applications. They lack very important features. Siri, a smart assistant that is made by APPLE Inc. for Apple products. This AI assistant is super smart, but this AI assistant do not have the ability to make an appointment or do related work [11].

Mi Microsoft, one of the largest organizations launched an AI assistant called as Cortana. This AI assistant is like Siri and this does not have the ability to make an appointment [12].

Most of the systems available for online appointment management are very basic with switching between multiple screens, many forms and frustrating user interface. An appointment management system made for a hospital shows that they have the basic setup without any AI Chatbot facilities [13].

Another research, which came up with an AI assistant, which helps visually, impaired people in doing their basic day-to-day activities [14]. These systems can help people in doing some activities, but these systems have no connectivity with a backend API to do fascinating functions such as; making an appointment, suggesting specializations for the symptoms provided.

## 1.2 Research gap

There are many Chatbots and e-Channeling systems developed. These systems lack some important functions, which is needed by the people. Products such as doc990 [9] has most of the facilities to make an appointment, but it does not have an assistant or any kind of guidance for the appointment making. Another system developed for a New Philip hospital also contains a web service, which has many forms to fill in order to make an appointment [13].

Google duplex is one of the most wonderful AI powered assistant, which makes appointments [15]. Google duplex calls the specific hospital for making an appointment. Calling a hospital and checking the availably and making an appointment is better but comparing the doctors cannot be done using this system [10]. Addition to that Google duplex cannot capture the symptoms and provide the type of specialization to make an appointment. It handles the conversation between the callers marvelously and smartly in 2018 I/O event [10]. Still calling for making an appointment can be fragile, since humans are very hard to understand by a machine. Which may result in a broken conversation.

Research, which is introduced to help the users in social media, can only answer generic questions [16]. Other Chatbot systems available cannot do very huge tasks like making an appointment and filling out forms. Table 1.1 shows the actual components missing in each of the above systems.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product | Communicate | Fill forms | Make comparison | Make an appointment |
| Research A [16] | ✓ | 🗶 | 🗶 | 🗶 |
| Research B [13] | 🗶 | 🗶 | ✓ | ✓ |
| Doc990 [9] | 🗶 | 🗶 | ✓ | ✓ |
| Google Duplex [15] | ✓ | 🗶 | 🗶 | ✓ |
| Our product | ✓ | ✓ | ✓ | ✓ |

Table11.1 – Comparisons between former researches and systems

All the requirements are full filled with this research we have completed. This research is a better one among its similar applications. Accuracy and efficiency are increased by the proposed system. This provides a better solution for English literacy, IT literacy and bad user experience.

This also outperforms other wonderful AIs which has been mentioned above.

# 2.0 RESEARCH PROBLEM

There are many chatbots made available for different purpose. Our research is specific to one area which is E-Channeling domain. There are several systems made available to help online doctor channeling purpose. These systems include web applications, standalone applications and AI chatbots as well.

To provide a better user experience we must satisfy most of the users and provide them with better solutions. Current systems lack a lot of important factors and functions, which is needed by many users. Majority of the people are not satisfied with the current system. However, e-channeling service values them a lot. Almost all the users want this service as referred to Figure 1.1.

English literacy plays an important role during interaction with applications. Technical and variety of English words makes it even harder during interaction with the application. Around 23.8% people speak English in Sri Lanka [17] and it is harder for the rest of the people to use the e-channeling services.

IT literacy also plays a vital role during application interaction. Some people suffer a lot while interacting with applications. There are still people who feel harder to operate a mobile phone. A study of computer literacy shows that about 40% of people uses personal computer in western province of Sri Lanka from 2017 [18]. It clearly shows that, there are people without a lot of knowledge in operating a mobile phone or a computer in Sri Lanka.

Some people find it more difficult to operate a mobile phone due to its sizes, multiple screen travels, filling out a lot of forms, notification alert and bad user experience. Figure 1.2 refers to some of the problems stated above. These problems can be simply addressed by the proposed system. By providing an end-to-end voice-based AI assistant.

Most of the system provides the core service required by the target customers. But these systems have missed out some important factors or key points which should be included with the system. So, having these missed features will add more value to this system.

Customers were very frustrated to travel between multiple screens to make an appointment with the current system. Few customers find it difficult to use a mobile phone to make an appointment, treason for difficulty is button sizes are too small, bad UI etc. Few customers face IT literacy, so it is hard to use an application by themselves to get an appointment. Similarly, few customers face English literacy. Few applications are able to make appointments by communicating to the user by text or speech format but these system is unable to make comparisons visually. Taking these points into account, this research has come up with a great application which is able to provide the right solution.

The architecture of the whole group has individual components working together in order to provide the right service. The communication between the services should be faster in order to provide a best service to the customers. This point is also considered while building this component.

List of comparisons are made below to pinpoint the actual problems which are already there is the existing researches and products.

ELIZIA is the first chatbot made by MIT professor Joseph Wizenbaum. Since this was the first chatbot, this didn’t have any features on making appointments to doctors online. [3]

ALICE was used from 2002 for building chatbots, ALICE works with rule-base, this can provide responses to the request by the user. But ALICE do not work best when it comes to context. RASA can memorize conversations for future use. [19]

FAQ's based chatbot are using a style where it can map the responses to the requests while training and deliver it to the user. These chatbots might be ambiguous, these cannot provide a dynamic service such as e-channeling service, context also cannot be handle using this research. [20]

MILABOT is a bit better compared to the above research, it uses machine learning algorithms such as reinforcement learning. Cut still these chatbots are not designed to provide a complex service such as e-channeling service. [21]

Another research which trained 1 million twitter conversations to build a chatbot which can emotionally handle the user requests. This research used deep learning for the conversation part. However, these chatbots cannot help in contextual conversation and doctor appointment booking

Google duplex, one of the great chatbot surviving in the market, this chat bot wonderful compared to other. Provides the user to talk and make an appointment. But these system lacks the comparison part. These chatbots are unable to make comparisons of the doctors, hospital etc. [10]

Cortona which was developed by the organization Microsoft and Siri which was made by apple Inc cannot make appointments with doctors, but they are smart. [22][23]. So basically, these problems are identified and provided a solution.

# 3.0 RESEARCH OBJECTIVES

The problem that most of the people face is having a bad user interface and bad interaction with the current system. Therefore, the main objective of this product is to have a better interaction with the user with minimal inputs, to automate the form fillings and most of the other activities. This will be achieved by providing an end-to-end voice-based AI assistant.

Particularly this paper will focus on handling the user queries, providing solutions for questions, connecting with the backend API to provide analysis of doctors, automated form filling and doctor channeling features, managing dialog flow to make better conversation and to provide better replies to the users.

Driving the user from the starting point to the end of a scenario with a better flow and replies will make this system address the IT Literacy problems. Providing better comparisons and answers for the user queries will make feel the user more comfortable. Voice communication is the basic and easiest way to interact with someone. So, having a voice-based AI assistant will reduce the physical interactions (touching a button in the application) which will eventually increase the user experience. This product considers the input from a voice to text converter, then processing it and accurately providing the required help to the user rather than making the user to do the task by themselves.

NLU component

* Understanding the converted text input from voice to text converter.
* Using techniques called as NLP to extract the information from the text input. NLP is used to extract the intent and entity from the text. Intent and entity decide the type of user query. This decision will be helpful for further processing.
* Conditional Random Field (CRF) is an algorithm used to extract the entity from a sentence. Many existing systems have used this algorithm to extract the entities. They have achieved a higher accuracy up to 92.43% and a low error rate of 14.3 [24] errors for 10000 fields [25].
* Conditional random field with perceptron algorithm is one the best possible way for vocabulary speech recognition task. This provides an additional 0.5% of word error rate, for a total of 1.8% absolute reduction from the baseline of 39.2% [26].
* Many systems and research papers have used BOW algorithm for feature (entity) extraction. BOW is one the best algorithm in order to extract features according to most of the readings [27] [28].

Reply component

* Making suitable replies and calling the relevant API functions by considering the extracted features.
* Using a several RASA policies to classify the API functions and to provide replies for the users [29]. This technique is better than the other techniques available, providing a better accuracy level.
* Chatbots like ALICE used rule-based system, which is one of the hardest ways to make a Chatbot assistant [30]. However, the proposed system will use machine-learning algorithms to make the system more accurately function.

Dialog flow management

* Handling the dialog flow management using a well gathered set of data to train the dialog flow model.
* The memorization policy, mapping policy, form policy, fallback policy is used to provide a better dialog flow to the user. This will take the user from one specific point to the destination, by having a friendly conversation with the user. This model will be helpful for the user to make analysis, comparisons and to do any function with a better flow. These are the specific objectives which are met.

# 4.0 METHODOLOGY

## 4.1 Methodology

Rasa chatbot framework has 2 components they are rasa NLU and rasa core components. Both provides a very important task. These NLU and Core components work isolated. They provide a service where the other one can consume it to produce a result. Figure 4.1 shows the architecture and components used in RASA. In depth NLU component is the component which can understand the natural language spoken by a human. In technical terms it is the component which can extract intents and entities. To be clear intents are user needs and entities are the state of the intent. NLU can extract another key part in the request, that is known as slot values. Slot is the real value of the entities. Let’s assume that a person asks the chatbot "I want to order a Coca-Cola drink", in this user's need is to order something, so that 'order' is our intent. This text says that the person needs to order a 'drink' this is the state of the person's need, therefore 'drink' is taken as the entity. The real item that is needed by the person is 'Coca-Cola', so Coca-Cola is the slot value.

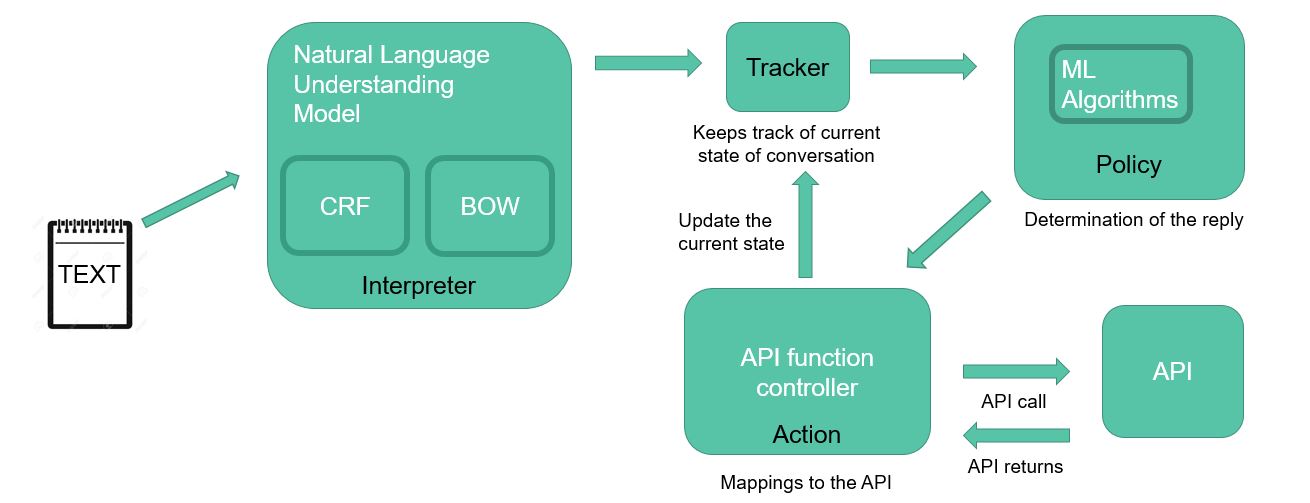


Figure44.1 – System Architecture of the Chatbot AI Assistant [25]

To extract these intents few algorithms and (pipelines in RASA framework terms) are used. The 2 main algorithms used to extract the intent and entity is Conditional Random Field (CRF) and Bag of Words (BOW) algorithms. The usage and the success rate of the above algorithms are already explained and most of the research papers have used these algorithms to have a high accurate result. Not only these algorithms some more algorithms and pipelines are used in this research to make the NLU component accurate. WhitespaceTokenizer is used to remove all the white spaces and takes the list of words to extract the intents and entities. RegexFeaturizer is used to match the regex expression provided in the training example, this pipeline is very useful because it helps to match the patterns and validate the inputs from the user figure 4.2 shows the syntax and the way to write the regex expression.

![A close up of a logo

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3OQAAkpIAAgAAAAM3OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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j+WXduTGWyuQDuGDyQ3Sri248z7P8AAiUUpuK8vxOYsPDWo6xeXMGiRjUUtlLPPFlI9oBOcyBcZwcAgE4PFQabot9q4mayiQx26hppppkhjjycDc7kKCT0GcntXRfDppI9eSa4v7a2sIVm3Lc30cI3vC6KQjsCTyBkDjvVvQpmtfCtxpFtJof9oxams0o1CW3kieIx4yrOTG2DnO0lsNx3p21t5L87f8Ezvpc5ez0Ga9gv2hu7Tz7FHke23ktIifeZGAKMB1+9yASM1l121g+mP4612XR1H9kizu28tFI3xeWdyoT93POCQccZB6VxkpjMzmBWSIsdiu25lHYEgDJ98D6Ulsn3Q+rXZ/5DKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAWLC/udL1CC+sZPKubdxJG+0NtYdDg5B/Glv7+bUro3FysCyEYPkW8cK/98oAM++KrUUAFFFFAFvTdTudJvVu7LyfOX7pmt45gpznIDggHjrjNPh1rUINcbV4rgrfNK0rS7F5Zs7srjBBycjGOcYqjRQBLc3D3Vy88ojV5DkiKJY1H0VQAPoBUVFFAF601i9sLC6tLSSOKK7XZMwhQyMvGV3kbgpwMgEA1RoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoq3penvqmpwWcbrGZXC7mYDA9eSM/Tqa1m8JSjULC1W9t2+1k/MJE+VdxGQN3zcDPH07VrGjUmk4rd2MpVYQdpM56itPV9FbSUtma4im+0R7/3bqdvJA6E5GBnPTt2qrY6ddalK8djCZnRC7KCAcD69evSp5Jc3LbUpTi4819CtRWidB1FbsW5gG8w+fuEqbPL/AL2/O0D3zSf2HqH2qS3MAV44xI7NIoQKejbyduDnrmn7OfZh7SHdGfRWk/h/Uo7uS2eFFkijEkhM6bY1PQs27aM+5pjaHqKfaAbY7rZlWVQyll3dDgHJByORxR7OfZh7SHdFCir40S/N/NZCAG4gQySoJFO1QMnnOOPTrTLHSbzUUZ7WJSisELvIsa7j0UFiAT7daShJuyQc8LXuU6K1IfDeqzQmVLXCgsDvlRCNpw2QSDwevpTItB1Ga6e2SFBMkhiKPMiFmHULkjd+Geo9afsqmnuvXyF7SHdGdRWraaR5uk391NHIWt1G0Ryx/Id2DvQncB6YFOs9Ps7rw3qF5idbmzEZz5gKPufH3duRge9NUpP7r/IHUj+NvvMiiir0Oj3txatcQxKyKhkK+am/YOrbM7se+KzUW9kW5Jbso0Vu6T4cku4pp74GGEWkk8WJUDvtHB2n5tvvj8aWw8NySafeXN+Gh8q0NxColQM3oSnLbT64H1rVUKj6ef8AX3GTrQXUwaK0pvD2qQW8k8trtjjjWRv3ik7DjDYByRyOR0pk+iahbWhuZrfbGoUsN6lkDfdLKDuUH3AqHTmt0y1Ug9mihRVy70q7sUDXSxxscfu/OQyDIyMoDuHHqKLzS7rT1Bu1jjbIBj85C65GeUB3D8RQ4SV7rYanF7Mp0UUVBQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGhoV/BpmswXd1D50cRzgZyD2I5HOfWtVPElkusaddf2eoSzt9hA3Z3cnjL9AT355Oc8Y5qitoVpwioro7mUqMZu79DT1rU4NSa1+zWywLBbrFxu5I6jljwDnHfnmjRNSi01r4zLIftFnJAmwDhmHBPPSsytGTQr+DVI9OuY4re6kRXCXFxHGFBXcNzMwCHHZiDyOOaXtJc/P1f6j9nHk5OhZ0XXfsX2iG+aSWGa38lSUWXysHIwj8EZ7cVs6XcjVI9TLmTUI1tooliFoFcqHzgRRuMgeoYYrlL+wutLv5rLUIHt7mFtskbjBU/55z3FLa6fc3sVzJax+YtrF502GAKpkDOCcnkjpnFaQxDilfVJP9f8ANkToKT00bt+h1F7qY0zU9Rg1CQSfb4Yn3JaoxgI6I0TkjgcYJz0NU7XxLHZalPqXmz3d5tWKHfCsKbBjO5Vb0GAPx+nNUUPEz5uZfL8f89xLDwtZ/wBbf5GlNJpM2rXMrG9NtIrNF93zA55AYknIz36mrek65Da6M9hPuiIuBPHKtrHPg4wQVcjHbBBzVDTdGvtW85rKJPLgAMs00yQxx5OAC7kKCT0GcntTrrQtSsoruS6tWjFlMsFwCwzG7ZxkZzg7Tg9Pes41ZQd1p/X/AAxbpqSszYPiiB7UpcG4mmKTq0pjVd5d1YHAPHC8j+dTxeJ9JTUnvfssiym8acsbeN2dOMLuY/IRz93865CitfrVRW8jP6tTOittW0xYtXE0l2rakSAEgVhGN+4H74z9OKg06+0y20O+sria7El6EBKW6sE2tnu4zn8Me9ZbWVwunpfGP/RnkMQcMD84AJBHUcEdev4VBWSrPp2t/X3mnsV97v8Ad/wxfTQ9WkRXj0u9dGGVZbdyCPXpW1Ya9pum2qxfZZIphavbzILaPJkOcuZCd3oNvGPwxXPz6fc29jbXksYFvdb/ACXDA7tpwwwDkEZHBx1FVqcanJflQSp8/wAR1KeI9OwJ5I7kXP8AZxsTGqLsBwQGznJ7cY4560s3iPTpRfTiO6Fze2Qt2TauxGCgZBzkjgdhj3rlas3OnXdpaWt1cQlYLxWaCQEFXCnB5HQg9QeRx6ireKqO9+v/AAf82R9Xhf8Ary/yRf1rW/t19HNYvPCgtUt3BO3cAOQcHkZq5q3iSPUIp3t5ZLeS5jRZYRZxYbGMjzQdxHGRx7VzdFS683e73/r9SvYwVvL+v0Og1HWrO80loJWlvLwumy7ltY4njVRjG5WJf8aTVdatL7SmhkMl5emRSt3LaxwuqgYwSrEt+NYFFKVaUk79f6/p7gqMVa3QKKKKxNgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHxCMyqJmZI8/MyLuIHsMjP5in3S2ySAWU00qY5aWIRkH6Bm/nUNFO+lhdTd8ERW0/jrR470KYWu0yG6E54B+pwKLCxuNf8AHC2moxXVxcXV2wuEiZUmY5JYAvhQ3XrWGjtG6ujFWU5VgcEH1q7q+qza1qL311HClxIo81ol2+awGC5Gcbj1OMDPOKOwdH52/X/M27rU7vXPHdj9i0mGSa3MVpb2N24lWTywFCyMdobOOTwKq6Zqb6H42a4v7aOJBcSRXtrEPkEbErIgAOMAEgckcCsCiktN/wCrjfkeh6X4SsP+J/perMsdvpt1FcG9RV8xrcrJjaxHRsxn0yRWlZaDoVv8RNL0fUIx9ptdPEc1ulkkkM7+S7l3YsPm5GPlPQcjt5fPcz3RQ3M0kxjQRoZHLbVHRRnoB6VFS/r8LD/r9T13wp4Z0jVfC9nFbxyanaNdmSSO4Q27Od8aF2COT8iF8YbGXGfSsa5uIj8QLnRL0eRBqdjBYTq7bvJm8pNhJPUpIFBJ5+9XJ6b4iksdPFjc6fZalbRz+fFHeK58p8YJUoynBwMqcg4HFZLuXkZyACxzhRgD6AdKrrqKN0n/AF1ueg6V4Rt9Z8L28V1GtpfWlzdWI2hUae5+Ro0c4OR98evHFWEsPDV1r/jHcHhFvazhYYtPjaO3CSIoeM+YMtx0wv3jz6+cXFzPd3D3F3NJPNIcvJKxZmPqSeTUdJ6r5Nfeh7HRaCIb06loMMjyRXiF7N5UCMZo8lOMkKWG5cAnlhzWVb6RfXWm3eoQQbrWzKid9yjZuOBwTk8+lVIpZIZklhdo5EYMjocFSOhB7Gh3aSRnkYu7ElmY5JPqajlaba6/1+Q7q1mdJoP/ABOPDGqaE3M8P/Exsh3Z0GJUHrlOcDugrs9M8LaPczaPrM8cIJsI7uS0EaiKSOKMLKzLjBJcqfwbPPTyu2uZ7O4Se0mkgmQ5WSJyrL9CORUVW9dv63/4H3ErzO4h0/w4/wAM57uS4uhL/aSK0402MyIxiJ8sHzeUzznI6D5azdP/AHnw11lbn/Vw3ts9tntKwcOB9UAz9BXM1eudWuLnSbTTdscVralmCRLjzHY8u/q2MD2AAHeh6387fhb/ACDt8/1/zKNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//Z)

Figure54.2 - syntax and the way to write the regex expression.

RegexFeaturizer is used to match synonyms or similar words, for example when ordering a Coca-Cola the user could say "I want a drink" or "I want a cool drink", we can see that both of the sentence expresses a similar meaning but the words are different, so the EntitySynonymMapper pipeline is used to help the chatbot understand similar words, figure 4.3 shows the syntax and the way to train the synonyms.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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V2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APD6KKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigC4NJvWs/tQgPkGMy79w+6G2k9fU4o/sm9+x/avIPk+V5u/cPu7tucZz14rrLjWLePwy8UWtXLSiyjRVBG7cXJ7P1wAp9B69KL3WLdfDckUWtXLy/Y4Y1UEZLFmY9H64+VvQY69K75Yekr2ey8t9f8kcSr1H06+e2n+Zw9FA6j+tddrF8JtLW7a7NpdQSReTZwXyTwnaMblRc7MY78fnXNCmpRbbtY6JzcWklucjRXbajd21osN1bOsb61PFcSjOPLjXBYH6vk/hT7zVbG7+1/2jdR3EEero0ce8N+6GclV7r6461s8Mk+Vy1/Dp/mYrESavy6HDUV3R1CJbtf7S1CC4LaqkloVnWQQxBuTkH5FxgYOOnTimP4gSGFLt7qOeSDVnCpvBItyuCFHZcenFNYaLV3P+tPPz/APrEukf6+44iiu7a4ttAvv7JtblESGC4naQsBukdT5Y57hcfnVPxLqMV5p6rHeRSyJeIU/eBtoMK5P03Zz70nhoqLfNqrafOz69AjiHKSSjo+v9I5Crl3ps1nY2d1KyFLxWaMKTkAHBzxW5Y3G3xhcy6pf2k9yYW8q7Vl8rzdg2HOABjpnHWtX+0IfstklxqUEupJYzpHObgN5cxIxlyeDjIBzj3pww8ZQbb1/r8QnXkmrL+v8AI4KrFlY3Go3a21nH5kzglV3AZwMnk8dBXWx39ob2AT3cLaomnPH9raQMomP3MyZwSF43Z/GqOgaldWHiyFtV1IlZFKySG7EqkbSF3MGI4Pr0qVQippOWj/r7xutJxbS1SOYorqLC5uEj1NbjUUGrPFH9nuXvEb5Q3zKJdxAOO2RV6bVbVDq8kF1Cbr7DCjShh+9mB+Zl9SPUemfekqEeW7l/Wv8Al+I3Wadkv60/z/A4mirepalNqt59quVQSlFVmQEb8DGTz1qpXM7J6HQr21CiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKsmxlFn9q32/l/3ftMe/rj7m7d+lVqbTW4k09gpyOY5FdQpKnI3KGH4g8GvRYtEsNKsfEmh2guH1BLG3We5llXymZ5ojhUC5AG4cljnHQVlal4W0hI9dtdOa+F7oZQSTXEiGK4+cRvhQoMfzNkZZuBzimk7qw1qr/I5S8vbi/n866k3uFCDChQqgYAAHAHsKgrpPEWnaHoGrSaSIL+6ubSREuLgXSIkh4LhU8sle4BLH1welaviTS9GvfFun6PpVjNY3F4lmgl89DEokjTkxrGpLfNkndycnHNLWeq1uCSWm1kcNUttcyWlws0OzevTfGrgfgwIrso/C2h6lJONL/tGAWWqQWVx9plR/NjkcoGXCDY2VPB3DnrVbU9I8JQam9hbahfW8lvqa2s0lyAweHJDyqFUbdpHQk5GDx0CjLVcv9bf5oJLRp/1v/kcrPPLdXDz3DmSWRizs3Uk1HXQeKtFg0maFrC0mS0lLiK6N/Fdx3G04yrRooB9VOSMjpXP0k76ha2gUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA27jxhrl1p81lPeK0M8aRTYgjDzKmNu9wu5iNowSSRz6mo7/xTrGp2T2t7dq8chQzMsKI85QYUyOqhpMf7RPr1rQtvB1wnh3U9S1RfIaC0juLaIXEfmNvkVQXjyXClWJBIHbmqF94U1nTbCS8vLRUii2ecFnjd4N4yvmIrFkz/tAelN36jWq02/4Yj1DxFqWq2wh1B4JyAqmZrSLzmCjAzLt3ngActRP4j1O5tLaCaaM/ZQiwTC3jE0YT7oEoXfgdhup9x4Y1Ozjia8W1t2l2bYpr2FJF342loy+5RyDlgAByeKteIfB13oV1HEtxa3YkSIqIbmJpC0ihtoiVyxGTgHGDwe9L/P8AEX+X4EF34v1q9khea6jDQ3Auh5VtFHumHSRwqje3HVs9/U1nHULhtUbUJDHLcPKZWMsKOrMTkkoQVPJ6YxWndeDtcszEJrSMmS5FoPKuYpNkx6RvtY7G9mxUereFNZ0O2M+qWghjWXyXxMjmN8bgrKrEqSORkDI5paLX+v62DfT+v63K+pa5f6tDBDePEIbfcYoYLeOCNS3U7Y1AycDnGeKz6KKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAWTfSmz+y7Lfy/732aPf1z9/bu/Wq1FFNtvcSSWx3l54y0aR9X1C2jvv7R1SCBfKkjQQwvG0bEbg2WB2cHC49DnIq6n4o0l11y70yO8a91xkMsVzGnl23ziRwGDEyfMoAyq8da5a20+6vLa6uLaLfFZxiSdtwGxSwUHk88sBxVai7GtF/W6Oi8U6npGvahc6xbTX0V7dMryWstuhjRsANiUPkj0+QVau/EemyazpWvwfa/7Rsxa+baPCohcwhRkSh8jIUcFOMnmuTopR93YNztU8U6Jps0x0tb+db3VIb25NzEiGKONy4RMOd7EsfmO3oOOeOb1fVpdQ1PUZYZpxa3l29x5TucEliVLDOMgMR+JrOopWS2/rb/ACQ7v+v68wooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAslLL7HuFxcfaf+efkLs6/39+en+zVaiim3cSPVdVsJdP0DxLBZ2FvBoq6bbfY7lLdA11l4mLebjdJyTnkgccDisXx1qlhZaxq2iQaDp8UIjhEEsEKxyRSYVmfcFycgkbcgdD1znhKKT1ZS0SX9dP8AIKKKKBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBZOnXos/tZs7gW3/Pfym2dcfexjrxVccsPrSUA4Oaq8eZC1PRdb0HQ31vxHotlpUdi+l2ZvLa6hmlZm2IrMjh2YEHdwQFwQOtY3iDwfpuh/b4F8Qxz39lHHKbdrfyxIHI+VWLnLgMCQB079cQ6r45vtU+3OljY2NxqKql3cWyyeZMgGNmXdgqnAyFAzgZrI1rV59d1ifUrtI0mn27liBCjCheMknoPWo1KKFFFFMQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFWTdRGz8n7DbiT/n43Sb+vpu2+3Sq1Nqwkbtl4U1C58PX+s3EFzbWlrAssUr27eXcZkVNqucD+InjPSs+50bVLOxivbvTbyC0mx5c8sDLG+RkYYjByOa7nUPEOhO+t6hHqSzm/tLaK20/yJAYwjRFo2JXaMbDjaSDz04Braxr2klPEt5Bqh1A640RhsjFIrQgOH/eZAX5QNg2FuvGBTshx+HXv/l+RyEui6rBpqahNpl5HZPgrcvbsI2z0w2MHNUa6fxncWGtaxc63Y6vBKLkoUsnilWaEbQNn3NmFxjh+grmKhAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqybWIWfnfbrcyf8++2Tf19du3361XX7w+tVy6pCuJRXsGszXWreLPF+matcyPosFmrp9oYmK1m2p5bJnhWJLcAjdk9a5zWNB0pI/EtlFpQ09tDaJYb1ppC82XCfvAxKneCXG0LjHGRUpN28x7nBUV1XiyLTdA16bR7TRLdks3QfabiScyXAABJOJAoVv9lRweD3rX8Tiz1nxppOmSaba2iX0dgv22Jpd4R40Hy7nKEDOAdueOuc0R961urDvftf8jz6ivQk0PR9RkuQdFXTBY63BZDbNKftKO5Vo23sfnAXOVx16VieKZPDsUl/p+l6TJZXVpftHDKJmkEkS5Db9zEbtwBG0Djg9MmeZP8Ar0/zHbW39df8jmKKKKoQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRSgZYCmrt2QF6/17V9UgWDU9VvbyJG3LHcXDyKpxjIBJwcGm3Osane2MNneajd3FrBjyoJZ2ZI8DA2qTgYHHFdfq3g7Rhq2taNo/9oJqGl24uUe4mSVLlQoLrtVFKt8wxy2cHpWJqHg680+0vJTe2NxPp+wXtpA7mW33HHOVCthiFO1mwTS3AzJtb1W405NPn1O8lskAC2z3DmNQOmFJwMU2TWNTm01NPm1G7kso8bLZp2Ma49FzgVoaj4Z/siVbfUtW0+C8ygltf3zPBuwfmKxleAckBifYnirviLwjbadq1vY6PqkN7PcJbiO1Al812kRTkExqm0luOc4IzzmjcP8AIxbrXdXvnga91W9uGtm3QGa4dzEeOVyflPA6egqlLLJNM8sztJI7FndzksT1JPc10c3gm7VgtpqOn3pW9Sxn+zvJ/o8jnC7tyD5cgjcuRxT7zwFqNrMsMV5YXc329NPkjt5WJhmf7oYlQMHB5BOMEHBBFC12/rb/ADQbf1/XmcvRWh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Figure64.3 – Syntax and the way to train the synonym.

CRFEntityExtrator is another type of a pipeline which is using the algorithm CRF to extract entity from a user request. CRF is used several researches has mentioned in the above writings. CRF is one of the best algorithms for extracting entities. Figure 4.4 shows on how to train the chatbots to extract entities.

A close up of text on a black surface

Description automatically generated

*Figure 4.4 – Shows how to train the entities.*

These are the pipelines used in our research to help the chatbot work better.

There are several files working behind the scene to provide the chatbot with the goal. The goal of the chatbot is to provide e-channeling service.

Files which is used in our system are:

* Nlu.md
* Stories.md
* Domain.yml
* Actions.py
* Config.yml

One of the most important files in this rasa chatbot framework is nlu.md, this is the file, which is used to train the entities, intents. Not only that this is the place where we train synonyms and regex expressions. According to the rasa chatbot framework we must train at least more than 15 examples to make a better prediction. In this chat different types of intents, entities, synonyms and regex expressions are trained.

CRF algorithm is used to extract entities and BOW algorithm is used to extract intents.

Figure 4.5 shows the sample nlu.md file and the Figure 4.6 show the accuracy on a prediction for a sample text.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAVvvH60lK33j9aSgAoqxY3DW12kiKjPnCl1ztPqB61uzwRSeLtSnmaA/Z5WdIppljEr54GWIGM8n2HvQBzVFdjdiaHVNRvJ5vKBtYS1zbyhpY2IUcBT3IxyVyO/rVvL4WOsXTSXFxB9ptYxFc2/zSMPlIZslTkhefr360AcxRV3WIJrfVJY7m4e4k+VjI+dxBUEbs8g4IyO1UqACiinxIJJVR5FiVjgu4OF9zgE/kKa1dgGUVNdQR28gWK6iugRnfEHAHt8yg/pXQeALEXfiyK5kEZi06N71xLIsakxjKgsxAGX2jkgc0WtuK+hzNFeoXWi2V5rDa34gt1v4p9Ce7lFvdqwe5h2o+JIyRzgE9fvHvWPo1j4d12a6vobGKzWw0zzZ7SaScwNNv2l8oXl8sBgSAc57gc0vL+uv+Q/6/L/M4eitnxPHo6alEdAljkhe3Rplh83y45uQyoZQHK8AjOeuM8VP4Y0m31211TTkg8zVTAJrBt5BJRsvGFzgkoSf+A0K72DY5+iu6vdM0GxtNav7HTE1FNNngsFjllk2FsHfcNscN8zIQoBC/N0p/iPwpYWdjfHTbGUXP9oWkUUIdneISwF2hx3IbAGRu4ppXenl+NrfmHW3r+G/9focFRW34x0+20rxlqdjYReTb285SOPcW2j0ycmtnwXoNrfWsFzqVnYzQXOoJZobqa43ucAssaQDIbB+8/wAvTjrSj7yugl7u5xdSvbTxW8U8kMiQzFhFIyEK+3rg9DjIzirOtWUena/qFjCWaO2upIULdSFYgZ/Ku50eKwvfDng3TL/SRqH228uYt/myKYULqGZQpHPIOWyAFPHOaI+9sKXunEQa/rFrp5sLbVr6GzYMpt47l1jIbqNoOOcnNZ9ei2PhrRotQ0HSn08alHrAmaTUvNkVowHZP3YVtnyBAx3Bs57Cqf2+1g+FkOdGsblY9WeIs7z4LeSv7w7ZR8x9Pu8dKTel/wCt7FW1t/W1zj206+XTl1BrO4Fk77FuTE3llv7obGM8Hj2qtXVeHrmHRvCmrahcG7lF/G+nJbLbt5DMVDB2lztyvJCgFvoDmuVp9bC6XCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBW+8frSUrfeP1pKAJbe5ntJfNtZpIZMY3xuVP5iluby5vHD3lxLOyjAaVyxA9OaWzjgluVW6kaOPvsXLN7Dt+J/wDrVem0hB4iuLCKQpBA7b5ZOdiL1Y/h+tAFKO/u4ZzPDdTxyldpkWQhsemfTgflSx6lfQzyTxXlwksn35FlYM31Oea1G0e0/ta5ghFxOscKSQ24kUSy7lUkA7SOAScAE8Uo0KBr+6CO5t7WNGkUzIrK7D7hkOFGDkE47YxmgDCZmdizkszHJJOSTSVZ1C2NpevEYXhAwQjyBzgjruAAIPqKrUAFFFFABUsVzPDHLHDNJGkyhZVRyBIMg4YdxkA8+lRVp+G9JGueIrPT5HMcUsmZnBwUjUFnb8FBNAbFaPU7+G1+zRXtykG118pZWC4bG4YzjBwM+uBTLO9utPukubC5mtbhM7JYZCjrkYOCORwa6WXwS994he00SdI7N9PXUoZb6UL+5KgncwGMglh0A+U1VfwZdpcIPt9gbNrP7ab/AHuIVi3FcnKb87ht2hc5PSj+vz/yYeX9f1qYt9qF7qdz9o1K7nu58BfNuJWkbA6DJOa0fD2uQ+H7iS+itJJdSRGW1m88KkJZSpYptJYjJx8wHqDVXWNHn0W6jhnkimSaFJ4Z4SSksbDhhkA+owQCCDxRZ6RPfaTqF/BJFs08RtLGWO8q7bdyjHIBxnnuKOjDqRWOqX+l3DT6ZfXNnMy7Wkt5mjYjOcEgg4yBUltreq2ctxLaaneQSXRJneK4ZTN1+8Qfm6nr61qyeCry1e4OoX1jZQ2scJnnmaQrHJKu5YsKhYvjkgAgYOTUGqeEtQ0i2up7qS3KW1zHbkxuW8zzELo6nGCpUZz15HFOzvYDHuLme7uHuLuaSeaQ5eSVizMfUk8mrVjreq6ZBJDpup3lnFIculvcPGrHpyAeaTWNKn0TWbrTbto3mtpDG7RElSfbIB/SrGjaGNYkVP7TsLJ5JVhiW6d8yO3oEVsDpy2Bz160lqtAfmZsssk8zzTyNJLIxZ3dssxPJJJ6mrkGu6va6e1hbarew2bghreO4dY2B6gqDjnvVW7tZbK8mtbldk0EjRyLnOGU4I/MV11p4Nh1jwvoUtjc2VpqF7NcRFbmVw1yykbFUAMBgZGTtGSOckUdNAej1OZt9Y1O0sJbG11G7gtJs+bbxzsscmRg5UHByBjmksNY1LS1lXTNRu7NZgBKLedo9+M4zgjPU/nWjZ+EdQvZtIijlt1bVvN8jezfJ5bEHdgccqema1NP+GmqajY2tzFqOmR/akidIpJXDgSkhMgIerKR+GenNG/5Bs7HKfbLn7CLP7RL9lEnmiDedm/GN23pnHGahra0/wAMy6lbsbfULH7WsUkwsS7mZlTJbGFKA4UnaWBwM45Gbi+B71tOiuRqGn+bNYtfxWnmv5zxKMk424BAB4JGcHGcUPTf+v6sHWxzNFdTY6Tbah4F1G/uNMNk9iqtBqKtJsumLhTEwYlS2DkbcYxzXLUdbAtVcKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAVvvH60lK33j9aSgCa1eGO4V7mOSRBztjkCHP1IP8q0LrXWe/ubmxhEP2rmaOYJOGOc8bk4FZsFvLdTrDbxtJI3RVp8tnPDfNZyRn7Qr+WUByd3THHWgDUk8RC5luPtNoPKuIUiYQFYnG3H8QXkHHQjpgdqZNri3U04ubZnt5o0jKiXEnyfdYuQct6nHftVRtHvUvJbV4lSWFQ0m+VAqg4wSxO3uO9H9k3QuHhfyY3QAnzLiNAQRkEEsAw+maAI7+8+23AcJ5aIixxpnO1VGBk9z71Wqe7s57G4MFyoWQANhXDDBGQcgkdDUFABT4pZIJVlhdo5EOVdDgqfUGmUU02ndATXV5c3sgkvbia4cDaGlcuQPTJrR8P6+/h6W9nt7eOa4uLVreN5QrLFuI3EoykN8oIweOe/SsiprS1mvr2G0tIzJPPIscaA43MTgDn3NGrYtEdQfHjzaYILrTYWuBYXFh58ASBfLkYMv7tEAG0humM7vzzfDHiabw3cXRjExhvITDL9muDBKvOQySAHaQQOxBGQRzWbqWnXWk6hLY6hF5VxFjeoYMBkAjBBIIIIOQaq0l3Q/JmlrmqnWNR+0mW/lAQIDqF59pkGM8b9q8c9MVseA5orDVJ9Q1GW1GlpbyR3kEs6B7hSpwiJncxLBeQMDHJFYuj6Jfa9ei00xIZLg/djkuI4i59F3sNx9hk1XvbOXT7t7a4MLSJjJhnSVf++kJB/OhabBubMPilbiHU7fXbN7231G5F43kziGSOYE8qxVhghmBBX0xjFXZ/G9vqH2yLVtH860muIZoIILkxeUIkMaIzbSWXbgHG09wR25uy0661H7R9ji8z7NA1xL8wG2NcZPJ56jgc1Vpp22/r+rB1v/AF5ml4h1f+3vEV7qnkfZ/tUpk8rfu2Z7ZwM/lW34W8bjw3pYtBaXTMt2LrzLS+NsZcKAI5MIS6d8ZHU1jaNoT62t0Le9tYZreF5xDN5m6VUUs20qpXgDuRUZ0a4Hhtdb3xfZmuzaBMnfvCbs4xjGPf8ACkvdVl5fn/mD97Ui1W+/tPWb2/8AL8r7VcSTeXu3bdzFsZ74zWxp3i3+z/8AhHv9C8z+xbiSf/W487eytjp8uNvXnrWVp2mf2hFeP9ts7X7LAZttzLsM2P4EGPmY9hVGhe7sJ2ludjo/jm005dLe60Zrq50szfZ3W78tMSMWO5dhJIycHIHPINS6d8Rf7Pjs0/svzPssdomftGN3kO7Z+7xu349sd64migb95tvqd1p/xJFjpsFsNPuR5NpJbGKHUDFbvv3fvGiCfM/zdSSDjOBxjKj8X7Lq0m+w5+zaQ+mY87725XXzPu8ff6e3WsOTT7qLTYNQkixa3Ejxxybh8zLgsMZyMbh+dVqP6/P/AD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ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAVvvH60lK33j9aSgCxY3DW12kiKjPnCl1ztPqB61uzwRSeLtSnmaA/Z5WdIppljEr54GWIGM8n2HvXP29zPaS+bazSQyYxvjcqfzFLc3lzeOHvLiWdlGA0rliB6c0dgOn1Cc22q3jS3kdrd3EEJjulfdtwq7hmPJXPrjkD0NUdRufsevkpfXVqzQp58tsmHZ9oJyu5ep5OT1rIi1C9gmMsN3PHIyhS6SsCQOgznpwKS3vru0dntbmaBn+80chUt9cUAW/ECka7ckqq7yHAX0YAjPvzz75rNpXdpHZ5GLMxyzMckn1pKACtnwnF53iezBjikCyBiJX24xzkcjJHpz9KxqfFNJBKJIJGjdejIxBH4itKU+Sal2IqRcoOK6ne7fN8R6Er2lgMRGYlbnO0l2Y4/ec9QR1zz1A4w/FpIXTEaC1iP2UMfIl34JJJH3jxzkHvk8msEXdyJUkFxKJEXYr7zlVxjAPYY7UySWSZgZpGkKqFBZicAcAfSt6mIjODil1uYU6DjNSb6F7RRpxvm/tc4i8pvL3Bim/Hy7tvzY+la39hxnULvT57a3FzPaCexa1kkKEgZwNxydwBHP4Vz1teXNlIZLO4lt3IwWicqSPTIq7p+sNaakdRuVlu7xeYpJJjgNjALcEtjjjI6Uqc6dlGa/rX8e2xVSE7uUX/X9bm1JpulWi6mhs1uJNNtogzGVwHmLYYnB6DOMD0/GnX+i6fYnU7tLVZlt4oGjtmkfapkAyTg7iB2571yv2q4/ffv5P35zKAx/ec559eealTU7+O4+0R3tws23Z5iysG2+mc5x7U/bU2rcv5ef+a+4n2NRP4v60/yf3nTXWkaXYw6jcGyWUxJbOkDyviIyA5U4IJxweeelPufDNjc6jfabp0RjuLa6ibcXY/uHA3DBP8ACTnPXFckbu5YShriUiZt0oLn94c5y3qc+tXrbW5LeG7kxNLf3UZia5knJwhxkYxnOBjJP4Vp7ei3rBJf1p/XQh0aq2lr/wAN/wAH7zoE0/Q5rOW5t9OVo/8ASWjJmk5WILt7985P1rK1GxtrLW9Ut4NMkuYo4sx7Hb/R8qDvOM5Az3rGS8uY4hFHcTLGAwCK5Aw33uPfHPrS/brsySv9qm3zLslbzDmRfQnuPrWc60JJWjZ+i7f5mkaM4v4r/N9zp/DdjBAujXi2oubi6vCpdmbEIT0Ckc9+c8DpU76RYtqlmk1oLptTu7gSS+YwMQDkALggZHU5BrkrfUL20iaO1u54Y2O5kjlKgn1wDSpqV9HFLEl7cLHMSZUErASE9cjPOferWIp8qi47f8C/32331IlQqOTal/Wv5X/A1ryystL0S1nS2jvnupJlM0jvtQK20BQjDk9ec1YW6hX4eoTY28mL/YQzSdfL+/ww5/T2rBttRvbONo7S8uIEY5ZYpWUH6gGkt7+8tEdLS6ngWT76xSFQ31x1rJVoq9lurfl/kaOlJ2u9nc6a20XTzJZWUlsHFzp5uXvTIwMbYJ4524GAOR361WubfRdP0/TjdWUjteWRd5EkbKvyFYDIHXrnjpx64Qv7xbM2i3c4tj1hEh2HnP3enWo5J5pljWaV5FjXagZiQg9B6CnKtBr3Yr+v63EqM76yI6KKK5TpCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAFb7x+tJSt94/WkoAns44JblVupGjj77Fyzew7fif/rVem0hB4iuLCKQpBA7b5ZOdiL1Y/h+tULV4Y7hXuY5JEHO2OQIc/Ug/yrQutdZ7+5ubGEQ/auZo5gk4Y5zxuTgUdgJrjSbG3uL6TNxJa20cTrGHAkbeAeW2kADPp6CmPosaaoUd5I7NYVuHZwA6IQCF/wB7J2/Xmh9fM2pfa5EmhIiWNfscqwNwADlgnI46dvwqF9evGmmZfJ2SlcxvCsowowv3wTwO9MCvqtqljq1zbQlikUhVSxycD1qpVzVNQbVNSlu2jWLzDkKqgYHuQBk+55qnUrbUAoop8UskEqywu0ciHKuhwVPqDVK19QGVf0fSLjWr421s0UQSNpZZpm2xwxqMs7EAnA9gTVa6vLm9kEl7cTXDgbQ0rlyB6ZNX/D+tLot5ctPbG6t7u1ktZ4lk8tijjqrYOCCAeQfpQ/IWpu6l4PheHTDplzaLANMN3e6gzSiH/WuobDLv5wqhQuSe3U1nf8IZfHUVt0ubN7ZrP7d9vDt5Ag6Fz8u7g/Lt27s8Yq7J42tXiSyGjsul/wBn/YJLf7VmRgJDIsgk2cMGIJ+Ug88AEAMHjRBdeSNNP9k/2d/Z32T7R+8Med+7zNuN+/5s7cdsUO2tvP8AW36FadfL9P8Ag/gM8P8AhfTdV1a6tZ9etGjhtJJ1kgWYB2VGb+KLOFwN2QCQflyapW3hr7WbyWHVrD7DZIjTX7CYRAucKoBj3lic9F7GjTdbstH18XlhYTmzaF4Zba4ug7uroVbEiouODx8vHvUtnr2mWltqOnjS7mTS78RM0bXq+dHJGSQyyCPbj5mGCnfrSfl/Wv8AkL+vyJ18B6h5moedfafDb6fFFPJdPK3lyRSfddCFJYH0xnPGM8UyTwTeW8+oC8v7G3t9PEJku2MrxsJRmMrsQtyPVRTtQ8ZG/sdTtBYrDBdxW1vbqsufs8UB+UE4+ckdTxz+VVfDOvxeH7o3ONTE+5cGx1AWwZQc7XHltuBI6ZFC8wfkYsqCOZ0SRZVViA6A4YeoyAcfUA02rOpXg1DVLm8W3ithPK0ghhXCR5OdoHoKrUltqN2voFFFFMQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQArfeP1pKVvvH60lAEkFvLdTrDbxtJI3RVp8tnPDfNZyRn7Qr+WUByd3THHWlsUlkuQkMix7vvF5VjBGc4JYgfhW5d3FpaeJL+7lnyZixtprUpMFycbiA4wcZx9c0dgMk6PfLeS2rxKkkKhpN0qhUBxglidvcd+9NXSbxrmaAxojwDdJ5kqIqjIAO4kAg5GOec1t3U9rNfXNvA4ureeCHzC1xHb7WRVxhmJB75GP5ZqGW8W41KZLKKzmg+zRwMtxP5asFxyGLKTyPy7UAYM0TQTNG5QsvUo4cfmCQaZVvVEtU1KVbAgwjGMMSAcDcATyQDkAntVSgAoop8RjEqmZWePPzKjbSR7HBx+RprcBlFTXTWzyA2UM0SY5WWUSHP1Cr/Kt7wPPBb61dO88Ftd/YZhYzTuqLHcbflO5vlU9cE9DjvihiMnUNJn061sJ53jZb+D7REEJJC72XByOuVPTNUa9Tm1VSLdG161l8QDQzDBftehvLm89i6ecThXMeVDE49GwQTANVtDra+ZqVo+vroXkjUWnUoLvOR+++6XEfy+ZnGR1zzQ1a/z/X/L8Srfp+n+f4M88sdPutTmeGyi8144nmYbgMIilmPJ7AGq1d14c1vV9O8XTRav4hcS3lnLF9pOqCWPeY3ERaRXKjDHgk/LnPFO0q91KO312OfXIV8RyxwfZ72TVI2Zogx3otxv2qfucbgSARSf9feL+vyODor06/8AE0Nla+JJ9O1K3/tR7SxikuYmXM9wCRNJEe5/21+o9a4DWtYuNe1WTUL1YxcSqokMakByqhdxyTycZPvmlcZQooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBW+8frSUrfeP1pKACirFlJHFdK0sKzj+FHPy59SO/0/wD1VtPpK3PirUfLtXktrSRnaGBOW54QAdMn8hmgDn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Figure74.5 – Sample nlu file

![A picture containing drawing

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Figure84.6 – Sample NLU file

The sample text tested here is “I want to channel doctor Dhivya”. The chatbot has declared the entity as ‘facility’ with a confidence level of 0.9970418216317828 (99.7%), value of the entity ‘facility’ is ‘doctor’ and this is also identified with a confidence level of 0.9970418216317828 (99.7%). Another entity is also identified it is ‘name’, the value is ‘Dhivya’ with a confidence level of 0.9967003435915027 (99.6%) and there is an intent which is identified as ‘inform’ with a confidence level of 0.9992740750312805 (99.9%).

These accuracies are high, which makes the NLU really a better component compared to the other system. As mentioned CRFEntityExtractorm EntitySynonymMapper and RegexFeaturizer are working together to provide a better service.

Stories.md file is used in the rasa chatbot framework to provide the training sample related to the flow of chat. Chats can be taken from one direction to another related to the user’s request. So, the stories file is the component which helps to train the specific chat flow.

This works when a specific intents and entities are selected a mapped utterance or reply will be selected accordingly. This can call another component called as the actions to call the backend APIs to provide dynamic replies or additional resource.

Figure 4.7 shows the stories files and the syntax on how to train the stories file. Stories file have few chat flows already trained. There should be few numbers of chats already trained to provide the required service with a good flow of communication.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3OAAAkpIAAgAAAAM3OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure94.7 – This shows the different chat flows trained.

Domain file is also one of the important files in the rasa chatbot framework. Domain file consists of few important components related to RASA chatbot framework. They are:

* Intents: Intents from the nlu file is registered in the domain file in order to keep track of the relevant intents used in the system.
* Entities: Entities which are trained in the nlu file must be register in the domain file as well. Domain file is used to register and manage all the components used in the chat system.
* Slots: Slots are known as bot’s memory, slots are also registered in the domain file.
* Actions: all the actions or replies are registered in this file actions. Replies are trained here.
* Forms: These are implemented in the actions file. The actions are registered in this place.
* Responses: Responses are the replies to user request. These are trained in the domain file.

Figure 4.8, figure 4.9, figure 4.10, figure 4.11, figure 4.12 show the examples and trained domain file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzMAAAkpIAAgAAAAMzMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 4.8 – intent registration in domain file.

![A screenshot of a cell phone

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drGxk/j3RkgsSec4ORiuaoqPZ63NPbO1v66f5HSXouZvBVrHc30E0kFwzrGb6N3SIogUBdxI5B+Ucj0qO7tGj8HWsZns2kiuZJXjS8iZgrKgB2hsnkHjqMc1z9FVyi9p5dLHTau95/wj+lSy6jDNdWbyElL+OSSMErsxhie3bpjtT9d1bUZvsV/b6qZrdIoGEZvAzLMqjJMRbOdwJzj3zzXLU+GVoZklQKWQ5AdA6/iCCD9DSUA9q9fNHS+JZobWz8uywq6tIL+RR1VCPlQ/RjJ+lcvU93eT39y1xdSb5GAGcAAADAAA4AA7CoKcI8qsTUnzyv/X9XCiiirMwooooAKKKKACiiigAooooAKKKKACiiigAooooA2Lv7PJ4Yt5YbWOFlumj3AZZgEU8t35J9qc9y3/CPSS3UFqWuXEcG21jRlC8s2VUH0H4mqT6vdyWP2NvI8jqFFtGCDjGchc5469agnuprhYlmfKwp5cYAACjr2+vWh9Q7ENFFFABV620e5urF7uKWzWOPOVlvoY5DgZ4RnDH8Bz2qjS7W/un8qAErct9JtZ/D4ubZZLy72u0qR3SIYNp4JiKlnGOcqcfTFYmxv7p/KtKG/wBUt7Q28EKxqUKF0tEEhU9R5m3dz069OKmSbWhcHFP3tjTOhaYY47dGu/tkmnfbRIzr5anZuK4xkg4PORjjg0XHhyxttNYzXAjuVs1uBI15DhnIDeWIfv8AQ4znk9sGodR1m9uLWC2soZIYls47eU/ZlV32gZG8DcVJA4z+FUnv9UlsltZohLGieWrSWiNIq9gHK7gB254rPlm/69TZzpLp/Wn/AASTVbKw0uNLVkuJr0wpI0wmVYlLANgLtJIAIGdw5qfUJRJ4N0zyWnWJLiVPKkdGAYKhLAhARkt0JOKpyX2pzWK2s8QljRBGrSWqNIqg5AEhXcAPTPTinzalqs+niykgj+zg5CrYxqQeMkEICCcDJzk4quWXXuQpwT+RfvfDsNtol1cGOa3ubURMyy3UTl9xAOYl+aM8g4YmodeuZrvRtDmu5pJ5Wgl3PI5ZjiVh1PtUVzrOt3dvLDcZZJiplxaoplKkEFiFyxGOp/rTLrU9VvbeKG4giMcJzGqWMSbec4G1Bxk5I6Gkoz0v3/QpzhZqPVfrcs6/LHLbaJITcNbG1+WGSRCyKJGXaGCD+71IPXvUV9p9iHsLeygvEu7khpIWlWZkVsbQAEX5iOcehHrwS3ut6jGim0WVLNfNHlafGPKVTkk7U4XJyQeOeaguNd1K6ukupTELiOUTCaO1jjcuO5ZVBP401GS/EUpxlr5I077RLGwtbe9eGYILo28tut/DMx+XIO9FIU5zlSDVfxINKg8TXUUFjPGkVy4kVLhQrDPRB5fyf+PVSvdY1HULUW9yyeSJPNEcdukY34wW+VRzSz6zf3M8c1wIJZY/43tIiX4x8xK/P/wLNKMZ3Tf9bDlOnZqK7dvM2NTsf7U8aXYvbiZ4orcXErkL5jIsQbaNqgZ7Zx781Ha6Fpt6trdobyC0miuC8bMrurRLuyGwAQQR2HOazZtd1SbUIr1pEW5i4WSO3RCRjGG2qNwwMYORjimPrOpSTLJ5gQpE0KrHCiIqNncAoAAzk8gZpcs0rLt/n/wA56bldq+v4af8Edq1la29tYXdiJkivImfy5nDshV2U/MAMjj0rMqxNcXM9vBBKS0dupWJdoG0Elj9eSetQbG/un8q1imlqYyab0Eopdjf3T+VGxv7p/KmSJRS7G/un8qNjf3T+VACUUuxv7p/KjY390/lQAlFLsb+6fyo2N/dP5UAJRRRQBoXWmLb6VDeLdJKzymNkQZCEKD97v17ce9T3Whrb2tw32iQzW0cckimHEZD4xtfdz19BnBpslzp58PpZRzXJmSUzfNAoUkqBtzvzjjrj8Ks3ms2U1jNDEsxSRFWK1eNRHbMMZZWByT17DOeaH1BdDBooooAKkdiNuCR8o71HWjFrFza2JtIorNo5FOWlsYZJBkY4dkLD8Dx2oAz97f3j+ddfFb282hXFyPOW4t3RSTICjBi3bGRjHqa4+uztbnT49FubWWa5E1wyMdsClVK7uM7wTnPXHHvQ7208io2vr2ZCNKvzafaRH8nl+bjzV37M43bM7se+MU06fdrZrdPsjjZdy+ZMqsw9QpOSPoK0Dq9nv8AtoWf7Z9k+z+UVHl52bN27Ofu84x171Wvbuzv7eGR3niuYYFh8sRKyNtGAd24EZHsaOad9iuWnbR6/wDDf8HQgOm3gtDc7VMaqGYCVSyqehK53AcjkjuKsX2jT2VpDO1xA4kj3sq3EZI+YjAAYlunUf0q6+s6aunXENtC8bTWyxKi20Y2txkmTO5skd/y9M+5urS60y1RmmS5tozGFEYKONxOd24EdfQ0uabfzHy00t76fjoF7ZC106ykHmmaffuYSo8bYIwF2kkHBGQe9JNo+oW6gyRj74jIWVWKMegYAnafrirLahYQ2dgLWS4kmspTKBJAqq+WU4yHJH3fQ099VsYTcNaC4c3dwksglQDy1Vt2AQx3HJ6nHSjmn/Xr/kLlh1fT9P8AMv6LpV/YWXiCS7j2KNIuUOJFYq2AcEAkg455rzbe394/nXpuiajFcWPi9UVwbmxuJ0yBwoDcHnr84/WvMaE5P4iZcqfui72/vH86N7f3j+dJRTJF3t/eP50b2/vH86SigBd7f3j+dG9v7x/OkooAXe394/nRvb+8fzpKKAF3t/eP50b2/vH86SigBd7f3j+dG9v7x/OkooAXe394/nRvb+8fzpKKACiiigCQwSrAszROImJVZCp2kjqAafJZXUNulxLbTJDJ9yRoyFb6Hoa27yDUZfCMMt1b3B2XLNloiAsexQD0wF/Spr90FnqN5cRXcDXsSKkNxGEXcCp+TnLAAHBwMDjvQ+oLWxy9FFFABTxK4GAf0plXraHSWsXe8vb2K7GdkUVmjxtxxlzKpHP+yce9AFTzX9f0qf8AtK7/AOev/jo/wqrXY2SW7R6VZNZWpS606eSaQwKZGYCQqdxGQRtHTHvniplLkV/62b/Q0p0/aS5f63S/U5j+0rv/AJ6/+Oj/AAo/tK7/AOev/jo/wrrbXRlXw3KbmFJI20xrhJEsFCK+Nw/0gncXGOVAx1HQVoT2ti0EsI02yUASxhlt1DYFoJM5653HOevpWcq1r+RrHDOVtdzgv7Su/wDnr/46P8KP7Su/+ev/AI6P8K6vVrOxttGmEFjPPafZkNvcw6cmxX4+c3AbcedwII4zjAwK4qtIz5jGdPksWv7Su/8Anr/46P8ACj+0rv8A56/+Oj/CqtFXdkGjba9qVotwtvc7BcQtBL+7U7kbqORx9RzVHzX9f0plFIB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigB/mv6/pR5r+v6UyigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)

Figure 4.9 – entities registration in domain file.

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Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NwAAkpIAAgAAAAM5NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 4.10 – slots registration in domain file.

![A close up of text on a black background

Description automatically 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Figure 4.11– actions registration in domain file.

![A screenshot of a cell phone

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Figure 4.12 – Forms and responses registration on domain file.

Actions file is one of the important files in RASA chatbot framework. RASA chatbot framework has this file to communicate with the backend API service. A backend API is created to provide many services. Let’s assume that a person is asking “What is the charge of Dr.Jack for cardio surgery?” We can clearly see that the charge can change over time. So, we can’t hard code the value. We should create a backend API to help with requesting for resources and manipulating those resources.

Figure 4.13 and figure 4.16 shows how a function Is defined in an action file. Very function is written in python language. Then using rest communication all the resources are manipulated through the API created using spring boot framework.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MwAAkpIAAgAAAAM3MwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ZjUeSNsnPLYBOR83Fee0Unq7v+r/8ADDO5TWfDrW1tELfTf3AsnUTWZXc6hvODuqFmH3c5yD1APNIJrFte1O/064jk0waXIt0UgWJA7oVWMBY4wx8zYQdik4z2zXD0Uraff+Og7639PwCiiimIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANVtdLz3Er6faFrhQr8yDj2IfIz3+lQz6tNPYi1aONVwilhuyQuccE4HXsB/OrT6faR6teQPFILaHkymTHljH05JOAP84imsbX+yDcwOCUEeW35LMwO5SvbBHH079gDLooooAfP/AMfEn+8f50ynz/8AHxJ/vH+dMoAfH9yX/d/qKZT4/uS/7v8AUUygAoorTs9NtJtMa8vb5rYed5KhYN+TtzknIwPoCfanYaTk7IzKK6aDwzZxXljHfagCZ5Ykkhi2FsOMjAD5x0BJAxnIBqnDoUF2wazu5DE0skYMkAVhsj3k4DH6dff2qpQlHf8Ar+rmipTexi0VvJoFm08NudTdZ2gWd0+zcKpiMhwd3JGMc461m6nZJYXYiilaaN4klR2TaSGUMMjJwefU0pRcdyXTklcp0VvaxFZadb6IYdOgZpbNbidneT98xZhg4cYHyj7uD71B4rsrfTvFWoWllF5NvFLiOMMTtGBxkkn86i+tvX8CFqkzIooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBfGp6vvkcXt7uAHmMJXzgdM8/Wq8s11LbxieSZ4U4jDsSq/TNdfNpF3b+Jb2d3iZFTzXIdtwUqRkDoW4PXiqGpDZ4WimCDyriOFEyxLBlBBOOgHDdMk7jn0pdAOYooopgOdt8jNjG4k4ptFFADlbarDH3hj9Qf6U2iigAp3myeT5W9vL3btmeM9M49abRQBZbUb544o3vLhkhIMSmViEI6EDPGPan/2xqX7z/iY3f73/AFn79vn4xzzzxVOindj5mupL9qn80SefJ5gTYG3nIXG3GfTHGPSmSSySsDK7OQoUFjnAAwB9AKbRSC7NO51o3kWnpc2FrJ9hiEKnMgMqAkhWw/qTyuDUGralLrGrXGoXKRpLcPvZYwQo+mST+tU6KOtxLRWCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

Figure 4.13 – Shows the function on connecting to the API and displaying it to user.4

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGF5ZXNoAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFT2sdtIzfa7hoUUZGyPezHPQDIH5moKv6RNYW92ZtSWRwi5iVIw67+xYFhkD0zzQBPLoiW1xefarorb22z95HHuZ94yuFJHbJPPGO9Ur+zNjdmHeJF2q6OBjcrAEHHbg1ei1GJNQuZXv7l0nAMjSWccnmHOeUZyox2PNU9Tv21G+a4YEZCqoJyQAABk+vFAFSiiigCWL/Vz/AO4P/QlqKpYv9XP/ALg/9CWoqACiiigC/pOiahrk80WmQCZ4IjNLmRUCICAWJYgADcMnsOegNXo/Bmvy30tnDYeZLFAlwxSaNk8piAJA4baV5+8CQOScAGrvgdbd4fEa3kskUB0d97xRiRlHmxdFLKD+YqzeeMLF7O+s7KO6WE6RFpttI4UO+2UOzOAflBG4YBbsPWspSkpWj/W40r79/wDL/NlLRvCNxL4st9K1mBwjqshS2vLdXmRhlDEzvsfJI6E8ZqhY+HL/AFh72TSbffbWj4lknnjiESndtLszAD7p56Z+oq14X1q0sfEdhqevXd+66c0ZgjiiExKqeEyzrsA7Yz9KDq+m2uia7ptm91ONQlt3gllgWPGwsWDAO2PvcYJz7UNyX9ef+Q1az+X/AASay8CalcR6wLuW2srjS1G6Ce5hQs25RglnG1cNkPyp6A81U0bQEutSuxqs4isdNiM15LbyLLlQQAiMCVLMxAByRznnFa9x4r0u+17XJLlLyKw1ayit98catLEyCMhtpYAjdGeNw4NV/DX2W7j1zw9aXDH+04UFlJOgjaWWNw6oRuIUtyB8x5xVQcr69v6/4YnS3z/DQytLh0ObcdVuLm3/ANIRVWP5sRHO4k7eo+X8+lFtpdk+kvqN5eTwxC58hFitxIT8u7Jy64rKdGjdkdSrKcMpGCD6Vr2mvT2Hh5rKwubq2uGuvNZ4ZCgKbMYyDnrSkna8fI1i47SXf9SmmmXM/wBnNvGXS6mMEBJVS7AjjGePvDrxz1q1Bp9rJomoyyJOl5ZbMnzVKNlwuNu3PHruq5pOs6dDDp/9p/azJY3jXI8lVbzc7TySwxgr6HPt1qO2v9KGn6lFcT3iSXxHCWyMqYk3DkyDOfoMe9JuWxajC17/ANa/8ArWtlZ3Ph2+uts63VoY/m80FHDNj7u3IwP9qsqtrTrvS4NBvbS5nvFnuwmfLtlZU2MSOTICc/QY96xauN7szlaysaY8Pam1mt0LdfKeIzJ+9Tc6DklVzuOO+BxUaaLfSWLXaRIY1j81lEybwmcbtmd2PfGK3576y0uPS7xzPJeLpWyKERr5fzb13M27PAJ42+nNRQa/pNvpLwQwSRyvYNbMi2kXMhBy5mJ3kE9uMfhis+eetl/Wv/ANVTp6Xf8AWn/BM7UPDk9hp9tdNcWsgmiMjKtzESvzFcKA5L9OoHt2qTWvDNzp0kstvGXs4443LNKhcBlHJUHONxIBxioLm8srzRbOKV7iK7s42iVViVo5AXLAltwK/eI6HpVq6122nu9WlRJQt7aRwR5AyGXy8k89PkP6U7zv9/5itSf4flr+JkTWFzb2dtdzR7YLrcYX3A7tpweOo59avajBocdkzabdXMtxvjCrIONpTLn7o5Dcf49aozfY/sdt9n8/7T832jzMbOvy7Mc9Oue9V6uzZldR6GxrekwWdnp+o6a8kljfxEr5pBeOVeJIyRjODgg4GQwrHrpfEH/Es8L6Pokp/wBMRpL24TOfJ80KEQ+h2qGI/wBoZ5rmqrqyOiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACpra0ubyQpaW8s7gZKxIWIHrxUNWtPtXurjatnc3iqMsltww987Wx+VAEcdndTXJt4baaSdcgxLGSwx1461HJG8UjRyoyOpwysMEH0IrrGjjurjWIiJZpnWFvs9uR5hUDmPPP3TtyQD93p6Y/iSVZdWBCqkiwxrKobdtcKMjJ6kdD7igDJooooAli/1c/+4P8A0JaiqWL/AFc/+4P/AEJaioAKKKKACiur8B2hu5ta8nTY9SuodMeS2gkt/P8A3gkjwQmDkjJ478g5BIrpbiDT9ObUru50jT5NQttCt5bm2a3QJDdGVVyUXhTgqSoAB5BHJFZyqKLt/X9aDSv/AF6f5nnWlaXea3qkOnaZD591OSI49wXcQCepIHQGq80TwTPDKNrxsVYZzgg4Ndz4TmfxH4806Sz8PWzW5WGHUUSxjmhOOGk27NsW7HbHfnmoNMtZNC0DxPPfaRAt/aS2whXULMMYQ5cZCOMcjHUEdDjgUnNp6/1rYaV0/kcfFbTzxyyQwySJCu6VkQkRrkDLHsMkDn1qTT9PutUv4rLT4WnuJm2oi9/xPAAHJJ4A5Nem7pLTX/F2kaDYWZllsori3tFsYpS7nyXdVVlO4AFiE5A6gcVzWkC7h03xfNPA1tq6WiI0KwCExxtKol+QABeMA4A4Jqoz5vuuLRq/nb8v8znNO0a+1W7lt7GON3gRpJWaZEjRAcFi7EKByOc96rXNu9rcvBKY2eM4JilWRT9GUkH6g12HhC+tofB/iYS6TZ3DRWkZZ5WmBlBnT5W2yAADr8uDxyTVnw1oY13R9LmstKhlZdeJuwibhFBtjIV2bJCcNjceeeprS36fnYm+jfm/wVzkbTRL6/025v7VIZILRS8w+0RiRFGBu8stuIywGQMc0RaHfTaLNq0SQvaW5AlK3EZePLbRmPdvAJ74rstK0HUJb/xodO0q5e2e3uIIDBbMUZhcJ8i4GMgDoOwql4c0HV5vAviUw6VeyCdLdYttu58wpP8AMF45xg5x0xU3vZ90n+ZT0XzscVRRXqVhpsQ0nRnutEs10STR5ZdQ1F7Nc7/3gX96RkOCEwFIJz34w3pFv+tm/wBBLWXL/XRfqeW1LJbTxW8U8sEiQzZ8qRkIWTBwdp6HB64r03RPDSf8IoDeW0NxbzaNPdCSPSkKI+HK5u2bf5oKjKKMAcY6mszUrzVtS+Gujy2Fhb3UMK3Ud7JBpkLfZgGBGSE/dHac7hgnrnPND0dv66gtUmcTqGnXWl3Ztb+Lypgivt3BvlZQynIJHIINLeabd2EVtJdwlI7qITQPkEOp4yCPcYI6jvXoviGWLUbjXbG4srPbZ6HbXEU626iYSAQ8mTG7oxGM4wBx1J5b/WfC0m458nVwtsT1G6ImQD24Q/WiWl/662FHVJ9/8rnM0UUUDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooq1p4DXO029tOWHAuZTGo987l/nQBVorfhsdOXxb9jmgkeB5USOPcQvzYyd3Urzx6jBz64cyhJ5FUYAYgfnQAyiiigCWL/Vz/wC4P/QlqKpYv9XP/uD/ANCWoqACiiigC9p2rT6ZDfR26RsL62NtJvBOFLK2Rg9cqPWqNbXhnQItfuL1bnUFsIbO0a6kmaIyfKpUEYBBz839O9a1l4Hh1OeWTS9Snv7GKzS5drSy824VnYqIjCrnDZBJy2Mc0Ws/68/+CF9P68v+AcfRXZD4fSr4iutMmubj9zZreRJFabrmdWx8ogLqdwycru42nrWS/h5P7N1m8jnnQaXNFF5VzbeXI5csDuXcdhBXpz+FK6/r1t+Yf1+ph1e0jV7nRNRW7s9hbaUkjkXckqMMMjDupHB/oea6zRdJTRvHlzoFwLW/ga0kd2ns42JP2VpF2lgxTBI+6RnFZ3hvSdCvvDet3WqzXaXFpFGymK3DiIGRV3D96u4nJGCAAOck8VWz+V/z/wAg7HLuwZ2YKEBOQozge3NJXTaN4Ug1iwvr6C5v54LadYlis7AT3BUgnzHj8wbF4xkFueK5o4yccjtkUvIfmJRWnZ6BeX9qtxBNp6oxIAn1K3hbj1V3DD8qzXUo7KcEqcHBBH5jrQI14tasI4kRvDOlSsqgF3lussfU4mAz9AKr6trM2rrZrLDDAlnB5EKQhsBNzMM7iSfvEfTFblj4Q02bR9KvNR8QpYSar5ohje3yqFGYZdy4CqSAM8nJ6YBNWbL4b3l5o8FzvuxcXNo93EEsWa2CgEhXn3YVmAOBgjkZIzQ9L36At7I4qiust/Bls9qqXOqSxag+mPqSwJah4xGFLKpk3ghiBnhSBmoT4PxcTRfbv9Voy6rnyeuUVvL+9/tY3e3Sh6b/ANb/AOTBa7f1t/mjmavX2r3F/Y2Vm6xxW9lGVijiXAJPLOfVjxk+w6AV0+o/Di70/R7q5d7z7RZ2yXMwewZLcg4yqTk4ZlDDI2jocE4rP1fwpDo2k2d5PcX0qXSRP58NiGtvmGSqzeZ8zDkbdo5B6daH2f8AX9agtdUc1RXV+LtI8P6Za6a2l3F4J59OhnEb2oCyls5dm80lCQPugEcdar+JfCq+HbWBzNeXDTBCs4swtpIGQMfLm3nfjOPujv0pAc5RVnTrGXU9UtbC3KiW6mSFC5wAWIAz7c11lz4At2igXStVnubmfVG0xYriyEI3r95s+Yx2j2GfUCqs/wCvl/mhXOKortNQ8DQ6R9ku72fUksJL02khudMMEpOMqyI0nzI2CM7gRjpVLxPomlweMZ9J0Ca5MhvmtxBNAFSL5toCv5jM3PGSBS3t5/8AA/zH0b7f8H/I5iiuuv8AT9MvfHMeg2722nWVjKLMSyo5e4YPh2YopJZmJxnAAwMjFX/Emjw6p4t1LTrS80yG30+O6mjisbDy2iEQyI5G2IWJ24zufHJ+p0v6/gHW3p+JwVFdBBYPow0HUkeGc6krMYp7VJFQCUxkYfcGzjOcDGfxq9d+Xp/xaure2tbQW51RoPIktY5IwhlxgIykDj0HHanbVL1X3Ceib7W/H/hjkaK0/EsUcHizVoYI1jijvZlREXCqA5AAA6CrGg6Fa6pp2p39/qLWVvpyI7lLfzWfc20ADcOc46nHPUVKd1cb0MSiurHgof21JaJPf3cH2WK6gew01p5ZY5ACCY9wCgZwct16ZrQtPB+kafq3iTTddubmSbTbNpomhtuFX5CsmDIp34fGw8cnnim9E36/gH9fecJRXZ6dpegXHgvUZbi9lhhj1OBIrxrBWnYGNsrtD4Azyfn6L3OBTNN0CKPxTqvhC9jimmkMiW12FwySxqzIQeysOCvuO4FD0/ryT/UFqr/1u1+hx9FFdZ4Fs9OvNVETyq99JBPtgutOWe3wI2bO7zVIbAOPl4OKHs32A5Oiuj0zwql94Xl1mSa8dI5HRorCzFwYQqht0vzrsU84OD0NT6Z4Ot7xdLgu9Va11DV0Z7OBbbzI8ZKp5j7gV3MpHCtjqaPIOlzlaK6+HwRbSWtmjauy6je2Et5Dai0yo2ByVaTfxnYcEA9OccZp/ZrfSvAkV5JbRzXmsTSRRSSKGEEMRXcVB6MzHGeoAOOpoen9edg7f15nOUV0MVrb6n4FuLlII4rzR5UDyIMefDKxA3erK+AD6NjsK56jqAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABU1tPHA5MtrFcgjAWUuAPf5WFQ1NbQxzyFZbmK2AGd0ocg+3yqTQBbh1mSPUxfPbQSypt8pXDBYtv3QArDoABzmqdzOLi4aVYY4d3JSMtjP/AAIk/rVltLaK9mt7q5t7fyQCXdiVbOMYABJyDnp9cVBe2ktheSW0+PMjODtOQfQj2IoAgooooAli/wBXP/uD/wBCWoqli/1c/wDuD/0JaioAKKKKAL2matPpUd8lukbC9tWtZN4JwrEEkYI5+UetS6Rrk2kR3UIt7e7tbxAk9tcqxSTBypypDAg8ggiqMFtPdOVtoJJmAyRGhYgZxnj3I/Opv7K1D7d9j+wXP2rGfI8lt+OuduM07P8Ar+vUdm0WI9Vs0vZZ20HT5I5AAtu0lxsjx3UiUNz7k+2K0m8cX899qM9/Z2N7HqJiMtvOj+WPL/1eNrBuBxyTkdc1m2Hh7U9RuZ4ILSYSW6sZQ0TfKQCdpwOGOMAHqaqT6feWxkFzaTwmLHmCSIrsz0zkcZ7UWaQ+WVr2N+PxzcjxFc63NpOmz3s67NziVVjXy/LIVVkA5X1z7YrP0/xC2nXF8YdPs3tL6PyprKTzDFt3Bhg794wQCDuzVOPStRllMUVhdPICAUWFiQSNwGMdwCfpRDpOo3EjxwafdSujFHVIWJVh1BAHBosxcrL2meIItKvheQaJp7zxzieB5HuP3BBBUKBKAQCP4sn1JrLubmW8u5rm5bfNM7SSNgDcxOScDjqajZWRirqVZTggjBBq7Y6Jquppu03TLy8XJXNvbtIMgAkcDsCPzFIRLZ+JNc061W20/WtQtYFJKxQXToozycAHFZru0js7sWZjlmJySfWrtromq3sc8llpl5cJbkiZordnEWP7xA46d6S10XVL6ylvLLTby4tYc+bPFAzomBk5YDAwOeaAFvNWnvdL0+wlSMRaerrEVB3MHcsd3Pqe2KuS+JGutLgs9R0yxvXtoTBBdS+assadh8jqrbc8bgfyrOj02+maBYbK4kNyGaALEx80DOSvHzYwc49DWhDotrceErrV4b2b7RZyxRzW724CfvC2Cr7yTwnOVHWjo2HU2tD8ZxiCaDV7ezR10iaxivRE5mYbGEcfBKjkgbgoOAMnGapDxxejTZLb+z9PMstgNPe7Mb+a0IGAPvbQQMcgDOBnNV5vBXiCHQYNWOmXTW0wdsLbyFo0UA72+XAUg5Bzzg1nf2Nqn9l/2n/Zt59g/wCfvyG8rrj7+MdeOvWiWu/9b/5sI7af1t/kXdU8SNrEJOoaZYyXpjVGvx5qzNtwASA+wnAxnb+vNK/iVl0W60yw0yysIrwILl4DKzShDkA+ZIwHPPAB/DisSigFoa974gfUdKtrS8sLSSa1hWCK8/eCVY1YkLgPsPUjJXOO/en3PiV5NFn0qx02z062uJEknFuZWMhTO3PmSPjr2xWLRQ9QOj0vxBat4j0CfULO0sbbTXiWWWztgGlCsDvcHO5uOTj6Vt+IfFNtJb219b6lHda3a3YktJrSa8kSGMcnf9qJ5Jxwoxwc+lcDRQBp6lq8N/IJbfSLHTpfMMhkszMMn6PIwAz6AVNqviOXVdRTUTYWdrfiUTSXNuJA0r8fMVZyoORn5QOaxqKFpsD13Og17VbKbxNDr2jkCS4dbua1kVv3E+7LLn+JSw3Ag9DjgioYfE95D4kvNa8m3klvTN58Dq3lusoIZeDuA57HPvWLRQH9fcdBc+LWu59PafRtNMGnRGK3tlWVI1Bbdk7ZAxIPcnnvk80k/ir7R4mOuS6LpxuWfzWjzOEMu7d5mPNznPbO32rAoo8wN66e28S6hcajdXmlaJNK5aSIrdMJGJLF+FkxknpkdOBWjpl7pPh/QtbtpbzT9Ze8ig8qFUuVjcrLkgnbGwIHPXH16VyFFG2wb7nSjxxfO9+Lyxsbu3vvJDWsiOsUaxZ8tUCOpAUHGCTnvmon8ZX0viK91ea2s5GvoPs9zbFGEMkewLjAYMPuqeCMEfhXP0UAak2uyPpdxp0FnbWtrPdJc+XFvOxlUqACzE4+YnnJz3rVsvE8Z1zVfE18yrqsisLW3hQhfMkUqZMknAUc4JJJI7ZrlqKHrv8A1/VgWhf07VP7OgvYvsNldfa4DDvuod7Q5/jjOflb3rY8I3On6JdHWrzVIPNit51jsVilMruyMignZsA+bOd3QdK5iijdNfIFo7m1oniRtBaOex0yyN9FuMV7IZjIhIIyFEgQ4B7qffNWLHxpfWNvaD7LZz3VirrZ3syMZbYNnhcMFOCSRuVsE8VztFAG5D4tv4bywuVjt2ksLN7OPcrEMjhwS3PLfvD6duKdHqVne+DDpd9IYbuwmaeykKkrIr4EkRx0OQGBPHBGRxWDRQ9f687h2/ryNwala2Pgx9Os5Glu9RmWW8O0hYkjLbIxnqSTuJHH3R61h0UUdbgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVa0/C3G83FtAVHBuYjIp9sbW/UVVooA3fM0q912a5vLlREqhgHV9txJgZ6AlVJyfpxx2zNSlafUJZpLiO5ZzkyRKwX6AMARjp0qrRQAUUUUASxf6uf/cH/AKEtRU5XKq4H8QwfzB/pTaACiiigDW0HUl0z+0X89oJZbJ4omUHJYleMjpwDzVzRtbiNtc2uqvE2+2SCB51fYqq27Y3lYfBz79B2rnaKvnf6fn/mXGbjax0qavA/iRpLue2WFrNrUTWySlFBjKqSHG844BqvZGxi0/UtNm1OBfPaF47gRymNtpOR93dn5vTHHWsKijmb3/rqP2j/AK9LHVaxrtrJa6vFp925F1LbbcIymREjIbPpzjj+dVG16S40WUXN232ybUI5pNoK7lVMZOBjrj8eawKKr2subm/rS3+QOpJ/j+N/8zQ165hvPEF/c2rb4ZZ3dGwRkE9cGtW38Qmy+H8WnWV7JDeDVvtTRoCMqqLsYnGDhh09QDiuaorLpb+t7kyfNJyfX9T0PS/F9pNpFhNcXGmw6vZ3s128moJdBZHdt3mKLb5c9iGXp04yKo6fqmk3ukCDxPc6a9pG1xNDBbxXC3UDOCdsZCiIgsFIDkgD0riqKLErT+v67noXhvWtChj8OXWoautrJpMFzFLbm3kd3Z2cqQVUrtw/JznjpWPph0yPwNqlnPrlnFd3skEyQtFOSvl78qxEZXJ3DGCR6kVytFD1v5/53/MDpTcafqPgWysX1KGzvNPuJ5PJnjkPnK4QjayKwzlcYbHXrVu4v9IvvCqrrV3Y3N/a2SQ2LWaXC3CENlUk3KIioBYEjngYJrj6KHqC0/r5hRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABVrT7prW53LeXNoGGGktuW+mNy/zqrU1teXNm5ezuJYGYYJicqSPwoA17+5e08Rzyi7uLJJlVy1qPnIKgjcMryep56+tVPECka7ckqq7yHAX0YAjPvzz75qrDqF5bzPLBdzxSScu6SkM31IPNQO7SOzyMWZjlmY5JPrQAlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)

Figure 4.16 – Shows the function which has the actual connection.

Config file is the most important file which has all the configurations of the project, it has the pipelines, policies and the language. In our project we have set language to ‘en’. This means we have set language to English. There are several pipelines and policies used in our project figure 4.14 shows all the related codes on configuring the chatbot framework.

![A screenshot of text

Description automatically 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Figure 4.14 - Shows the configuration of the RASA chatbot framework.

This research had several research problems. Doing this research helped to fulfill each problem one by one completely. The first problem that most of the people face is having a bad user interface and bad interaction with the current system. So, this e-channeling system is designed in a way to solve the problem completely. Firstly, this chatbot can communicate in few different flows to completely full fill the doctor appointment part. This chatbot doesn’t have a complex user interface. It has only one screen where users can talk to the chatbot using text or voice to make an appointment based on their requirements. This research has completely solved this problem.

This paper includes that this focus on handling the user queries, providing solutions for questions, connecting with the backend API to provide analysis of doctors, automated form filling and doctor channeling features, managing dialog flow to make better conversation and to provide better replies to the users. This research can handle user queries by chatting with them. This research can provide solutions to the questions asked by the user, such as: the user can ask anything related to e-channeling service to get the required solution, actions file is used to connect to the backend API, this has a feature where the chatbot asks few questions to fill the forms easily and this handles the dialog flow using the stories file implemented and provides a better reply according the trained reply in the domain file.

Another problem faced by the users was the multiple screen travels, complex and frustrating user interfaces in the e-channeling application. But this research has identified this problem and provided a solution to completely solve this. It is a fact that talking or chatting the primary way to communicate. Everyone is very familiar with chatting and communicating rather than using a mobile application. So, this research provides a chatbot system, where the user can talk to the chatbot to fulfill the doctor appointment task or to use the e-channeling service. This provides a solution to the IT-Literacy faced by the user.

The research question of the following paper is “What is the most accurate and faster way of analyzing the text and transferring the request to the back-end API?” There are several ways to handle this problem. One of the ways is training a chatbot using the knowledge base and according to the request given by the user a matching reply or API is selected to complete the e-channeling service. But this chatbot has a trained model in order to understand the user request. This chatbot uses various machine learning algorithms to connect to backend API very quickly and to establish a connection. The research question is answered according to the implementation made. As mentioned in the introduction part most fats algorithms such BOW and CRF is used in the NLU component. Several other machine learning algorithms are used to pick the reply and connect to the backend API.

This chatbot system addresses several other problems as well. There are many e-channeling applications such as web application and mobile applications. Users find it very difficult to use these applications. Reasons for the complication of the other applications are due to frustrating user interface, lack in user experience, bad user interface etc. And there are no chatbots built for this domain. This is the first ever contextual chatbot built for an e-channeling domain.

This research has addressed the research problems which was mentioned above by providing an end to end voice base ai chatbot system.

This research has solved a very uncommon problem with implementing a domain specific end to end ai chatbot system. Rasa open source framework has enabled the use of context. Which is one of the important targets achieved in this research. Providing a simple chat flow to achieve the required functions in the e-channeling domain will improve the user experience very well.

## 4.2 Commercialization aspect of the product.

E-channeling applications such as website, mobile applications are very common. Many people feel frustrated to use this application. Reasons for the frustration is because of having very unclear user path, bad user experience, bad user interface, complicated workflow, IT literacy and English literacy. These are the burden which stops people having a good communication between these applications.

A good communication with the IT systems will help the user to get the maximum effort from the system. Being very simple helps the system to provide its services to their customers very easily. IT system is introduced to make life easy but not to make life hard. Since, current E-channeling services doesn’t provide the maximum quality of their system, we have found the key points missing in the current E-channeling services and we have provided a wonderful end to end voice-based AI applications.

Several other methods are available to transfer request from one end (user) to the system. Using if else conditions, key pair system, machine learning algorithms, neural networks etc. Each of these methods are having its own drawback compared to the contextual AI used in this system. This system provides the ability to handle request in a flawless way. Handling the context, handling the error management and making the user attentive to the communication makes this research better. Most of the people can use this system to get their target (making an appointment) with very simple interface and simple communication using the natural language they speak daily.

E-channeling domain is one of the most important domain in the industry, channeling a doctor from anywhere any time is priceless, most of them gets this service as an incomplete due to the problems they face. System which helps the users to communicate has a large effect in the user experience and user interface.

Future works to improve this chatbot is to enable multiple languages, which can help many communities access this system without any barriers. Providing a framework like structure which can take simple data to train itself and adjust to any domains which needs this implementation.

This end to end voice based channeling system has the power to bring a very good effect to the users. This has brought a better E-channeling application which can be used by most of the people very easilty

# 5.0 TESTING & IMPLEMENTATION RESULTS & DISCUSSION

## 5.1 Results

In this research, there are mainly 2 components used. They are; rasa NLU and rasa core components. Each of these components are test separately to check whether the functions are working properly. Few results are very direct, but some results have some accuracy levels and other output.

Testing of the NLU component with sample input

1. Input:

* “I want to channel a doctor”

Expected output:

* + Intent: search\_provider
  + Entities:
    - Value: doctor  
      entity: facility

Actual output:

* Intent: search\_provider: accuracy level of 0.9309689402580261
* Entities:
  + Value: doctor: accuracy level of 0.993006004919564  
    entity: facility: accuracy level of 0.993006004919564

1. Input:

* “My email address is test123@gmail.com”

Expected output:

* Intent: inform
* Entities:
  + Value: test123@gmail.com  
    entity: email\_address

Actual output:

* Intent: inform
* Entities:
  + Value: test123@gmail.com  
    entity: email\_address

1. Input

* “I want to channel a cardiologist in Nawaloka”

Expected output:

* Intent: inform
* Entities:
  + Value: cardiologist   
    entity: specialization

Actual output:

* Intent: inform
* Entities:
  + Value: cardiologist   
    entity: specialization

Testing the core component, in this testing part core components responses are matched for the user request. A full chat flow is recorded to check the requests and responses.

Expected result:

User: Hello

Chatbot: Hi, I am an E-Channeling chat-bot, I can help you to make an appointment. How can I help you?

User: I want to channel Dr Theeban

Chatbot: Appointment selection

Chatbot: Can you provide the patient’s name (eg: Mary)?

User: My name is Gajen

Chatbot: Can you provide the contact number (eg: 0771234567)?

User: My phone number is 0777898922

Chatbot: Can you provide the email address (eg: [user@gmail.com](mailto:user@gmail.com))?

User: my email address is [gajenpurushoth@gmail.com](mailto:gajenpurushoth@gmail.com)

Chatbot: Can you provide your NIC number (eg: 123456789V or 199912365478)?

User: 896699882V

Chatbot: Can you provide your credit card number (eg: 111122223334444)?

User: xxxxxxxxxxxxxxxx

Chatbot: Can you provide your cvv code (eg: 002)?

User: xxx

Chatbot: Success!!! Successfully made an appointment, thankyou!!!

Figure 5.1 shows the actual result

A screenshot of a cell phone

Description automatically generated

Figure 5.1 – Shows the actual result of the core model

## 5.2 Research findings

The main research problem was on how to pick up the backend API most correctly according to the user request (User request comes as natural language text) selected not only that and how to quickly transfer this request.

There are several ways to handle this situation. They are:

* Simple program using if conditions to select the backend API.
* A program trained using key pair to select the backend API.
* Training a machine learning algorithm using a training sample.
* Using neural network algorithm to predict the backend API.
* Using NLU component with another component to select the backend API.

Simple programs are very simple to process, so the computational cost is less. This adds an advantage to this method. Human languages are hard or cannot understand by this kind of programs. Structured programs are better, but they do not have a good power to handle complex and NLP type problem.

A program trained using the key pair to choose the backend is one of the good ways to do this part. But considering the NLP process again, this will not do the job well. Training the key pair will be a little bit time consuming, plus it will be error prone and less efficient considering to the other methods.

Training a machine learning algorithm to choose the correct API is one of the best ways to do this process correctly. Still finding a dataset to train, synthesizing the data set is a huge challenge. Understanding the natural language text is also a serious problem. So, these are some serious problems faced by the system.

Using neural network is also one of the best ways to train and achieve good accuracy. Neural networks work best in making predictions. Neural networks are better in accuracy wise, still they face the same issue of the other machine learning languages. Reason is this also doesn’t have the ability to use NLP.

Among these all components rasa chatbot framework uses the last approach where they have a component to take care about the natural language processing. But the other part is relevant to the response making and connecting to the backend. This is better because it has the ability memorize the past chats. That is the reason this is better.

In this research, this chatbot is developed based on one domain that is e-channeling. E-channeling domain has several other applications, but there is no proper chatbot which can talk related to the context, related to this domain, providing dynamic function communication, a faster and simpler way to handle the user request etc.

These are the new work I have done to come up with a component which can connect to the backend API:

* Creating my own datasets for the training purpose.
* Training the NLU component with my own datasets.
* Training the chat flow of the system.
* Training the component which connects to the backend API.
* A faster method to analyze the request and connects the APIs together.
* Using contextualization techniques to reply to the user.
* Choosing the appropriate algorithms to make the chatbot.

A possible way to make an appointment using our system is a little bit different, when considering other similar products. The novelty of this research is to mainly focus on the key points discussed below:

* E-Channeling domain chatbot (domain specific chatbot)
* Provides the goal of a doctor appointment application, with providing additional functions. Such as: comparing services, making appointment, guiding style of the appointment making path etc. providing all these functions together.
* The advantage of this application or research is rather than user handling the chat flow, the chatbot drags the user into a chat flow, where their goal is accomplished.

## 5.3 Discussion

Chatbots are very famous and these are very common. Technologies used in chatbots differ, but the goal of a chatbot is to provide a service to its customer base. Different types of chatbots are invented in this world. With the age the chatbot’s intelligent increases. They speak livelier with humans. Chatbots now are evolved and they can provide services like e-channeling service, food ordering service etc.

Most of the systems such as mobile applications and web applications, slowly implementing the chatbots to help their functions. Benefit of having a domain expert chatbot is simply we can neglect the human power invested on answering each question given by the user.

Chatbots are taking lead in many industries and in near future they will take the front desk in an office. Most of the chatbot system is partially evolved to the personalized state. It will not take so long to catch the autonomous area.

# 6. CONCLUSION

The era of chatbots were started long time back. Chatbots have improved from a very low grade to a higher grade within the past 20 years.

E-channeling domain had several applications supporting the basic needs of its domain. But deep inside there were several problems faced by the user to get the maximum of the system. All of the user needs and choices are recorded and listed in the introduction section.

Powerful Ais such as google Alexa, Cortona, Siri etc. These AI chatbots did not match few of the user needs mentioned.

Other products such as mobile applications and web applications were able to full fill most of the needs but these were very complex and cumbersome to be used by a new user.

It is a fact that all the human’s primary skills are to talk, speak and chat. It is the simplest way to communicate or to get some job done quickly. Considering these above points and the other factors, this research implemented a chatbot. This chatbot consists all the services and additional requirements that were missed out in the earlier products.

Features provided by this research are listed below:

* User can channel a doctor using the doctor name.
* User can channel a doctor based on the specialization and location.
* User can channel a doctor based on the specialization and zip code like the above function.
* User can channel a doctor based on the hospital and specialization.
* Giving suggestions to the user and helping them on the first aid. This part is not included in this research. This part is originally from my peer’s research. This is integrated with this system to complete the function of our chatbot.
* Providing the user about the specialization related to the given symptoms. This part is not included in this research. This part is originally from my peer’s research. This is integrated with this system to complete the function of our chatbot.
* Credit card payments can be done.
* Simple questions to capture user details.
* Both voice and text message possible to communicate.
* Very simple user interface to make an appointment.

Data collection was not an issue at all for this system. Using rasa chatbot framework it is a bit easy to train the chatbot for a specific domain. So, for any domains we do not have to look for a dataset. Simply we can train the models with few sample data and get an accuracy above 90% approximately, this value can be increased or decreased according to the training sample, but a good sample can provide an accuracy more than 90%.

It is easy to apply any domain on this specific research. The process is simple. Building a backend API and training the chatbot model will serve all the domains in this world. As a future work we can create a framework which can easily take inputs and auto train the models and become a system and provide services to any domain.

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# GLOSSARY

# APPENDICES

* nlu.md
* **## intent:greet**
* - Hi
* - Hey
* - Hi bot
* - Hey bot
* - Hello
* - GM
* - Good morning
* - Good evening
* - Good afternoon
* - Hi again
* - Hi folks
* - Hi Mister
* - Hi pal!
* - Hi there
* - Greetings
* - Hello everybody
* - Hello is anybody there
* - Hello robot
* - Hello, good morning
* - Hello, good evening
* - Hello, good afternoon
* - hi
* - hey
* - hi bot
* - hey bot
* - hello
* - gM
* - good morning
* - good evening
* - good afternoon
* - hi again
* - hi folks
* - hi Mister
* - hi pal!
* - hi there
* - greetings
* - hello everybody
* - hello is anybody there
* - hello robot
* - hello, good morning
* - hello, good evening
* - hello, good afternoon
* **## intent:affirm**
* - yes
* - yes sure
* - absolutely
* - for sure
* - yes yes yes
* - definitely
* - yeah
* - si
* - ok
* - okay
* - oki
* - kay
* - sure
* - Yes
* - Yes sure
* - Absolutely
* - For sure
* - Yes yes yes
* - Definitely
* - Yeah
* - Si
* - Ok
* - Okay
* - Oki
* - Kay
* - Sure
* **## intent:neutral**
* - Oh! it is okay
* - Oh! that is fine
* - Oh! its okay
* - Oh! thats fine
* - its fine
* - it's fine
* - thats okay
* - that's okay
* - thats fine
* - that's fine
* - oh it's fine
* - oh it's okay
* - oh! it's fine
* - oh! it's okay
* - oh thats okay
* - oh that's okay
* - oh! thats okay
* - oh! that's okay
* **## intent:deny**
* - no
* - not today
* - no thanks
* - no thank you
* - uh no
* - noope
* - do you have something else
* - no this does not work for me
* - nope
* - uhh no
* - No
* - Not today
* - No thanks
* - No thank you
* - Uh no
* - Noope
* - Do you have something else
* - No this does not work for me
* - Nope
* - Uhh no
* **## intent:out\_of\_scope**
* - please help with my ice cream it's dripping
* - Please help with my ice cream it's dripping
* - no wait go back i want a dripping ice cream but a cone that catches it so you can drink the ice cream later
* - No wait go back i want a dripping ice cream but a cone that catches it so you can drink the ice cream later
* - i want a non dripping ice cream
* - someone call the police i think the bot died
* - Someone call the police i think the bot died
* - show me a picture of a chicken
* - Show me a picture of a chicken
* - neither
* - Neither
* - I want french cuisine
* - i want french cuisine
* - i am hungry
* - I am hungry
* - restaurant
* - Restaurant
* - can i be shown a gluten free restaurant
* - Can i be shown a gluten free restaurant
* - i don't care!!!!
* - I don't care!!!!
* - i do not care how are you
* - I do not care how are you
* - again?
* - Again?
* - oh wait i gave you my work email address can i change it?
* - Oh wait i gave you my work email address can i change it?
* - hang on let me find it
* - Hang on let me find it
* - stop it, i do not care!!!
* - Stop it, i do not care!!!
* - how come?
* - How come?
* - I changed my mind
* - i changed my mind
* - what?
* - What?
* - did i break you
* - Did i break you
* - that link doesn't work!
* - That link doesn't work!
* - you already have that
* - You already have that
* - this is a really frustrating experience
* - This is a really frustrating experience
* - no stop
* - No stop
* - give me food
* - Give me food
* - i want food
* - I want food
* - Can I ask you questions first?
* - can I ask you questions first?
* - is it a wasteland full of broken robot parts?
* - Is it a wasteland full of broken robot parts?
* - can we keep chatting?
* - Can we keep chatting?
* - talk to me
* - Talk to me
* - who is your favourite robot?
* - Who is your favourite robot?
* - can you help me to build a bot
* - Can you help me to build a bot
* **## intent:goodbye**
* - Bye
* - Bye!
* - Goodbye
* - See you later
* - Bye bot
* - Goodbye friend
* - See you
* - I'm off
* - C ya
* - Catch you later
* - Bye for now
* - Gotta go
* - See you later alligator
* - We'll speak soon
* - Good night
* - Goodnight
* - Have a nice day
* - Tataa
* - C u
* - bye
* - bye!
* - goodbye
* - see you later
* - bye bot
* - goodbye friend
* - see you
* - i'm off
* - c ya
* - catch you later
* - bye for now
* - gotta go
* - see you later alligator
* - we'll speak soon
* - good night
* - goodnight
* - have a nice day
* - tataa
* - c u
* **## intent:thanks**
* - thanks
* - thank you
* - thank you so much
* - thanks bot
* - thanks for that
* - cheers
* - cheers bro
* - ok thanks!
* - perfect thank you
* - thanks a bunch for everything
* - thanks for the help
* - thanks a lot
* - amazing, thanks
* - cool, thanks
* - cool thank you
* - tnq
* - tq
* - ty
* - Thanks
* - Thank you
* - Thank you so much
* - Thanks bot
* - Thanks for that
* - Cheers
* - Cheers bro
* - Ok thanks!
* - Perfect thank you
* - Thanks a bunch for everything
* - Thanks for the help
* - Thanks a lot
* - Amazing, thanks
* - Cool, thanks
* - Cool thank you
* - Tnq
* - Tq
* - Ty
* **## intent:mood\_great**
* - Perfect
* - Very good
* - Great
* - Amazing
* - Wonderful
* - I am feeling very good
* - I am great
* - I'm good
* - Thats great
* - That's great
* - perfect
* - very good
* - great
* - amazing
* - wonderful
* - i am feeling very good
* - i am great
* - i'm good
* - thats great
* - that's great
* **## intent:mood\_unhappy**
* - sad
* - very sad
* - unhappy
* - bad
* - very bad
* - awful
* - terrible
* - not very good
* - extremely sad
* - so sad
* - i'm sad
* - i am sad
* - im sad
* - i m sad
* - Sad
* - Very sad
* - Unhappy
* - Bad
* - Very bad
* - Awful
* - Terrible
* - Not very good
* - Extremely sad
* - So sad
* - I'm sad
* - I am sad
* - Im sad
* - I m sad
* **## intent:bot\_challenge**
* - are you a bot?
* - are you a human?
* - am I talking to a bot?
* - am I talking to a human?
* - Are you a bot?
* - Are you a human?
* - Am I talking to a bot?
* - Am I talking to a human?
* **## intent:search\_provider**
* - Can i channel a [doctor](facility)?
* - Is there any [doctor](facility) i can channel?
* - I want to channel a [doctor](facility)
* - Are there any [doctors](facility) i can channel?
* - I need to channel a [doctor](facility)
* - Show me a [doctor](facility)
* - Can i channel a [dr](facility)?
* - Is there any [dr](facility) i can channel?
* - I want to channel a [dr](facility)
* - Are there any [dr](facility) i can channel?
* - I need to channel a [dr](facility)
* - Show me a [dr](facility)
* - Can i channel a [doc](facility)?
* - Is there any [doc](facility) i can channel?
* - I want to channel a [doc](facility)
* - Are there any [doc](facility) i can channel?
* - I need to channel a [doc](facility)
* - Show me a [doc](facility)
* - Can i channel a [Dr](facility)?
* - Is there any [Dr](facility) i can channel?
* - I want to channel a [Dr](facility)
* - Are there any [Dr](facility) i can channel?
* - I need to channel a [Dr](facility)
* - Show me a [Dr](facility)
* - can i channel a [doctor](facility)?
* - is there any [doctor](facility) i can channel?
* - i want to channel a [doctor](facility)
* - are there any [doctors](facility) i can channel?
* - i need to channel a [doctor](facility)
* - show me a [doctor](facility)
* - can i channel a [dr](facility)?
* - is there any [dr](facility) i can channel?
* - i want to channel a [dr](facility)
* - are there any [dr](facility) i can channel?
* - i need to channel a [dr](facility)
* - show me a [dr](facility)
* - can i channel a [doc](facility)?
* - is there any [doc](facility) i can channel?
* - i want to channel a [doc](facility)
* - are there any [doc](facility) i can channel?
* - i need to channel a [doc](facility)
* - show me a [doc](facility)
* - can i channel a [Dr](facility)?
* - is there any [Dr](facility) i can channel?
* - i want to channel a [Dr](facility)
* - are there any [Dr](facility) i can channel?
* - i need to channel a [Dr](facility)
* - show me a [Dr](facility)
* - i need a [doctor](facility)
* - I need a [doctor](facility)
* - i need a [Dr](facility)
* - I need a [Dr](facility)
* - i need a [doc](facility)
* - I need a [doc](facility)
* - i need a [dr](facility)
* - I need a [dr](facility)
* **## intent:inform**
* <!-- Specialization -->
* - [general](specialization)
* - [General](specialization)
* - [physician](specialization)
* - [Physician](specialization)
* - [general physician](specialization)
* - [General physician](specialization)
* - [pediatricians](specialization)
* - [Pediatricians](specialization)
* - [pediatrician](specialization)
* - [Pediatrician](specialization)
* - [geriatric](specialization)
* - [Geriatric](specialization)
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* - [Allergists](specialization)
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* - [Allergist](specialization)
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* - [Dermatologist](specialization)
* - [ophthalmologists](specialization)
* - [Ophthalmologists](specialization)
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* - [Ophthalmologist](specialization)
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* - [Obstetrician](specialization)
* - [gynecologists](specialization)
* - [Gynecologists](specialization)
* - [gynecologist](specialization)
* - [Gynecologist](specialization)
* - [cardiologists](specialization)
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* - [Cardiologist](specialization)
* - [endocrinologists](specialization)
* - [Endocrinologists](specialization)
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* - [urologists](specialization)
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* - [neurologist](specialization)
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* - [oncologists](specialization)
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* - [radiologist](specialization)
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* - [rheumatologists](specialization)
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* - [rheumatologist](specialization)
* - [General surgeons](specialization)
* - [general surgeons](specialization)
* - [Orthopedic surgeons](specialization)
* - [orthopedic surgeons](specialization)
* - [Cardiac surgeons](specialization)
* - [cardiac surgeons](specialization)
* - [Anesthesiologists](specialization)
* - [anesthesiologists](specialization)
* - [General surgeon](specialization)
* - [general surgeon](specialization)
* - [Orthopedic surgeon](specialization)
* - [orthopedic surgeon](specialization)
* - [Cardiac surgeon](specialization)
* - [cardiac surgeon](specialization)
* - [Anesthesiologist](specialization)
* - [anesthesiologist](specialization)
* - I need a [cardiologist](specialization)
* - I want a [cardiologist](specialization)
* - i need a [cardiologist](specialization)
* - i want a [cardiologist](specialization)
* - I want to channel a [cardiologist](specialization)
* - i want to channel a [cardiologist](specialization)
* - I need to channel a [cardiologist](specialization)
* - i need to channel a [cardiologist](specialization)
* - I need a doctor specialiazed as a [cardiologist](specialization)
* - i need a doctor specialiazed as a [cardiologist](specialization)
* - i want a doctor specialiazed as a [cardiologist](specialization)
* - I want a doctor specialiazed as a [cardiologist](specialization)
* - I want to channel a doctor specialiazed as a [cardiologist](specialization)
* - i want to channel a doctor specialiazed as a [cardiologist](specialization)
* - I need to channel a doctor specialiazed as a [cardiologist](specialization)
* - i need to channel a doctor specialiazed as a [cardiologist](specialization)
* - he is a [cardiologist](specialization)
* - she is a [cardiologist](specialization)
* - He is a [cardiologist](specialization)
* - She is a [cardiologist](specialization)
* <!-- Location -->
* - [Colombo](location)
* - [Dehiwala](location)
* - [Mount Lavinia](location)
* - [Moratuwa](location)
* - [Sri Jayawardenapura Kotte](location)
* - [Negombo](location)
* - [Kandy](location)
* - [Vavuniya](location)
* - [Galle](location)
* - [Trincomalee](location)
* - [Batticaloa](location)
* - [Jaffna](location)
* - [Katunayake](location)
* - [Dambulla](location)
* - [Kolonnawa](location)
* - [Anuradhapura](location)
* - [Ratnapura](location)
* - [Kilinochchi](location)
* - [Mannar](location)
* - [Mullaitivu](location)
* - [Puttalam](location)
* - [Kurunegala](location)
* - [Gampaha](location)
* - [Kalutara](location)
* - [Polonnaruwa](location)
* - [Matale](location)
* - [Nuwara Eliya](location)
* - [Kegalle](location)
* - [Ampara](location)
* - [Badulla](location)
* - [Monaragala](location)
* - [Hambantota](location)
* - [Matara](location)
* - [Ratnapura](location)
* - [Ratnapura](location)
* - [Colombo Fort](location)
* - [Fort](location)
* - [Slave Island](location)
* - [Kolpity](location)
* - [Bambalapitiya](location)
* - [Narahenpita](location)
* - [Havelock Town](location)
* - [Kirulapona](location)
* - [Wellawatta](location)
* - [Pamankada](location)
* - [Cinnamon Garden](location)
* - [Borella](location)
* - [Dematagoda](location)
* - [Maradana](location)
* - [Panchikawatte](location)
* - [Pettah](location)
* - [Hulsfdorf](location)
* - [Bloemendhal](location)
* - [Grandpass](location)
* - [Mattakkuliya](location)
* - [Modara](location)
* - [Mutwal](location)
* - [Madampitiya](location)
* - [Kotahena](location)
* - [Kochchikade](location)
* - [Aluthkade](location)
* - [Pitakotuwa](location)
* - [Kurunduwatta](location)
* - [Kollupitiya](location)
* - [Kompanyaweediya](location)
* - [Kotuwa](location)
* - [Akarawita](location)
* - [Angoda](location)
* - [Arangala](location)
* - [Athurugiriya](location)
* - [Avissawella](location)
* - [Batawala](location)
* - [Battaramulla](location)
* - [Batugampola](location)
* - [Bope](location)
* - [Boralesgamuwa](location)
* - [Dedigamuwa](location)
* - [Deltara](location)
* - [Embuldeniya](location)
* - [Gongodawila](location)
* - [Habarakada](location)
* - [Handapangoda](location)
* - [Hanwella](location)
* - [Hewainna](location)
* - [Hiripitya](location)
* - [Hokandara](location)
* - [Homagama](location)
* - [Horagala](location)
* - [Kaduwela](location)
* - [Kahawala](location)
* - [Kalatuwawa](location)
* - [Kalubowila](location)
* - [Kiriwattuduwa](location)
* - [Kohuwala](location)
* - [Kosgama](location)
* - [Kotikawatta](location)
* - [Kottawa](location)
* - [Madapatha](location)
* - [Maharagama](location)
* - [Malabe](location)
* - [Meegoda](location)
* - [Mullegama](location)
* - [Mulleriyawa](location)
* - [Napawela](location)
* - [Nugegoda](location)
* - [Padukka](location)
* - [Pannipitiya](location)
* - [Piliyandala](location)
* - [Pita Kotte](location)
* - [Pitipana Homagama](location)
* - [Polgasowita](location)
* - [Puwakpitiya](location)
* - [Rajagiriya](location)
* - [Ranala](location)
* - [Ratmalana](location)
* - [Siddamulla](location)
* - [Talawatugoda](location)
* - [Tummodara](location)
* - [Sri Jayewardenepura](location)
* - [Waga](location)
* - [Watareka](location)
* - [Wijerama](location)
* - I am from [Colombo](location)
* - I am in [Colombo](location)
* - I m from [Colombo](location)
* - I m in [Colombo](location)
* - Im from [Colombo](location)
* - Im in [Colombo](location)
* - I'm from [Colombo](location)
* - I'm in [Colombo](location)
* - My zip code is [00100](location)
* - My zipcode is [00100](location)
* - My zip-code is [00100](location)
* - My location is [Colombo](location)
* - i am from [Colombo](location)
* - i am in [Colombo](location)
* - i m from [Colombo](location)
* - i m in [Colombo](location)
* - im from [Colombo](location)
* - im in [Colombo](location)
* - i'm from [Colombo](location)
* - i'm in [Colombo](location)
* - my zip code is [00100](location)
* - my zipcode is [00100](location)
* - my zip-code is [00100](location)
* - my location is [Colombo](location)
* <!-- patient name -->
* - [Hariharan](name)
* - [James](name)
* - [John](name)
* - [Robert](name)
* - [Michael](name)
* - [William](name)
* - [David](name)
* - [Richard](name)
* - [Joseph](name)
* - [Thomas](name)
* - [Charles](name)
* - [Daniel](name)
* - [Matthew](name)
* - [Anthony](name)
* - [Donald](name)
* - [Mark](name)
* - [Paul](name)
* - [Steven](name)
* - [Andrew](name)
* - [Kenneth](name)
* - [Emily](name)
* - [Donna](name)
* - [Kimberly](name)
* - [Ashley](name)
* - [Sandra](name)
* - [Dorothy](name)
* - [Betty](name)
* - [Lisa](name)
* - [Nancy](name)
* - [Karen](name)
* - [Sarah](name)
* - [Jessica](name)
* - [Susan](name)
* - [Barbara](name)
* - [Elizabeth](name)
* - [Linda](name)
* - [Jennifer](name)
* - [Patricia](name)
* - [Mary](name)
* - [Hanar](name)
* - [Dhivya](name)
* - I am [Hariharan](name)
* - My name is [Hariharan](name)
* - He is [Hariharan](name)
* - She is [Hanar](name)
* - Her name is [Hanar](name)
* - His name is [Hariharan](name)
* - The patient's name is [Hariharan](name)
* - The patient is [Hariharan](name)
* - Patient's name is [Hariharan](name)
* - Patient is [Hariharan](name)
* - i am [Hariharan](name)
* - my name is [Hariharan](name)
* - he is [Hariharan](name)
* - she is [Hanar](name)
* - her name is [Hanar](name)
* - his name is [Hariharan](name)
* - the patient's name is [Hariharan](name)
* - the patient is [Hariharan](name)
* - patient's name is [Hariharan](name)
* - patient is [Hariharan](name)
* <!-- phone number -->
* - My phone number is [0776318136](contact\_number)
* - Phone number is [0776318136](contact\_number)
* - The phone number is [0776318136](contact\_number)
* - It is [0776318136](contact\_number)
* - Its [0776318136](contact\_number)
* - It's [0776318136](contact\_number)
* - My contact number is [0776318136](contact\_number)
* - Contact number is [0776318136](contact\_number)
* - The contact number is [0776318136](contact\_number)
* - my phone number is [0776318136](contact\_number)
* - phone number is [0776318136](contact\_number)
* - the phone number is [0776318136](contact\_number)
* - it is [0776318136](contact\_number)
* - its [0776318136](contact\_number)
* - it's [0776318136](contact\_number)
* - my contact number is [0776318136](contact\_number)
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* - the contact number is [0776318136](contact\_number)
* - [0776318136](contact\_number)
* - My phone number is [0779784296](contact\_number)
* - Phone number is [0779784296](contact\_number)
* - The phone number is [0779784296](contact\_number)
* - It is [0779784296](contact\_number)
* - Its [0779784296](contact\_number)
* - It's [0779784296](contact\_number)
* - My contact number is [0779784296](contact\_number)
* - Contact number is [0779784296](contact\_number)
* - The contact number is [0779784296](contact\_number)
* - my phone number is [0779784296](contact\_number)
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* - the phone number is [0779784296](contact\_number)
* - it is [0779784296](contact\_number)
* - its [0779784296](contact\_number)
* - it's [0779784296](contact\_number)
* - my contact number is [0779784296](contact\_number)
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* - the contact number is [0779784296](contact\_number)
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* - My phone number is [0776754257](contact\_number)
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* - The phone number is [0776754257](contact\_number)
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* - Its [0776754257](contact\_number)
* - It's [0776754257](contact\_number)
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* - The contact number is [0776754257](contact\_number)
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* - the phone number is [0776754257](contact\_number)
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* - its [0776754257](contact\_number)
* - it's [0776754257](contact\_number)
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* - the contact number is [0776754257](contact\_number)
* - [0776754257](contact\_number)
* - My phone number is [0112531422](contact\_number)
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* - The phone number is [0112531422](contact\_number)
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* - Its [0112531422](contact\_number)
* - It's [0112531422](contact\_number)
* - My contact number is [0112531422](contact\_number)
* - Contact number is [0112531422](contact\_number)
* - The contact number is [0112531422](contact\_number)
* - my phone number is [0112531422](contact\_number)
* - phone number is [0112531422](contact\_number)
* - the phone number is [0112531422](contact\_number)
* - it is [0112531422](contact\_number)
* - its [0112531422](contact\_number)
* - it's [0112531422](contact\_number)
* - my contact number is [0112531422](contact\_number)
* - contact number is [0112531422](contact\_number)
* - the contact number is [0112531422](contact\_number)
* - [0112531422](contact\_number)
* - My phone number is [0714569856](contact\_number)
* - Phone number is [0714569856](contact\_number)
* - The phone number is [0714569856](contact\_number)
* - It is [0714569856](contact\_number)
* - Its [0714569856](contact\_number)
* - It's [0714569856](contact\_number)
* - My contact number is [0714569856](contact\_number)
* - Contact number is [0714569856](contact\_number)
* - The contact number is [0714569856](contact\_number)
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* - the phone number is [0714569856](contact\_number)
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* - its [0714569856](contact\_number)
* - it's [0714569856](contact\_number)
* - my contact number is [0714569856](contact\_number)
* - contact number is [0714569856](contact\_number)
* - the contact number is [0714569856](contact\_number)
* - [0714569856](contact\_number)
* - My phone number is [0725564825](contact\_number)
* - Phone number is [0725564825](contact\_number)
* - The phone number is [0725564825](contact\_number)
* - It is [0725564825](contact\_number)
* - Its [0725564825](contact\_number)
* - It's [0725564825](contact\_number)
* - My contact number is [0725564825](contact\_number)
* - Contact number is [0725564825](contact\_number)
* - The contact number is [0725564825](contact\_number)
* - my phone number is [0725564825](contact\_number)
* - phone number is [0725564825](contact\_number)
* - the phone number is [0725564825](contact\_number)
* - it is [0725564825](contact\_number)
* - its [0725564825](contact\_number)
* - it's [0725564825](contact\_number)
* - my contact number is [0725564825](contact\_number)
* - contact number is [0725564825](contact\_number)
* - the contact number is [0725564825](contact\_number)
* - [0725564825](contact\_number)
* - My phone number is [0785656872](contact\_number)
* - Phone number is [0785656872](contact\_number)
* - The phone number is [0785656872](contact\_number)
* - It is [0785656872](contact\_number)
* - Its [0785656872](contact\_number)
* - It's [0785656872](contact\_number)
* - My contact number is [0785656872](contact\_number)
* - Contact number is [0785656872](contact\_number)
* - The contact number is [0785656872](contact\_number)
* - my phone number is [0785656872](contact\_number)
* - phone number is [0785656872](contact\_number)
* - the phone number is [0785656872](contact\_number)
* - it is [0785656872](contact\_number)
* - its [0785656872](contact\_number)
* - it's [0785656872](contact\_number)
* - my contact number is [0785656872](contact\_number)
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* - My NIC is [698856522V](nic)
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* - Its [7874987552367551](credit\_card)
* - It's [7874987552367551](credit\_card)
* - My credit card number is [7874987552367551](credit\_card)
* - The credit card number is [7874987552367551](credit\_card)
* - credit card number is [7874987552367551](credit\_card)
* - it is [7874987552367551](credit\_card)
* - its [7874987552367551](credit\_card)
* - it's [7874987552367551](credit\_card)
* - my credit card number is [7874987552367551](credit\_card)
* - the credit card number is [7874987552367551](credit\_card)
* - [7874987552367551](credit\_card)
* - Credit card number is [6161616284851315](credit\_card)
* - It is [6161616284851315](credit\_card)
* - Its [6161616284851315](credit\_card)
* - It's [6161616284851315](credit\_card)
* - My credit card number is [6161616284851315](credit\_card)
* - The credit card number is [6161616284851315](credit\_card)
* - credit card number is [6161616284851315](credit\_card)
* - it is [6161616284851315](credit\_card)
* - its [6161616284851315](credit\_card)
* - it's [6161616284851315](credit\_card)
* - my credit card number is [6161616284851315](credit\_card)
* - the credit card number is [6161616284851315](credit\_card)
* - [6161616284851315](credit\_card)
* - Credit card number is [9632545566541552](credit\_card)
* - It is [9632545566541552](credit\_card)
* - Its [9632545566541552](credit\_card)
* - It's [9632545566541552](credit\_card)
* - My credit card number is [9632545566541552](credit\_card)
* - The credit card number is [9632545566541552](credit\_card)
* - credit card number is [9632545566541552](credit\_card)
* - it is [9632545566541552](credit\_card)
* - its [9632545566541552](credit\_card)
* - it's [9632545566541552](credit\_card)
* - my credit card number is [9632545566541552](credit\_card)
* - the credit card number is [9632545566541552](credit\_card)
* - [9632545566541552](credit\_card)
* - Credit card number is [8523554255785556](credit\_card)
* - It is [8523554255785556](credit\_card)
* - Its [8523554255785556](credit\_card)
* - It's [8523554255785556](credit\_card)
* - My credit card number is [8523554255785556](credit\_card)
* - The credit card number is [8523554255785556](credit\_card)
* - credit card number is [8523554255785556](credit\_card)
* - it is [8523554255785556](credit\_card)
* - its [8523554255785556](credit\_card)
* - it's [8523554255785556](credit\_card)
* - my credit card number is [8523554255785556](credit\_card)
* - the credit card number is [8523554255785556](credit\_card)
* - [8523554255785556](credit\_card)
* - Credit card number is [8894511512236128](credit\_card)
* - It is [8894511512236128](credit\_card)
* - Its [8894511512236128](credit\_card)
* - It's [8894511512236128](credit\_card)
* - My credit card number is [8894511512236128](credit\_card)
* - The credit card number is [8894511512236128](credit\_card)
* - credit card number is [8894511512236128](credit\_card)
* - it is [8894511512236128](credit\_card)
* - its [8894511512236128](credit\_card)
* - it's [8894511512236128](credit\_card)
* - my credit card number is [8894511512236128](credit\_card)
* - the credit card number is [8894511512236128](credit\_card)
* - [8894511512236128](credit\_card)
* <!-- cvv -->
* - My cvv code is [002](cvv)
* - My cvv is [002](cvv)
* - Cvv is [002](cvv)
* - Cvv code is [002](cvv)
* - The code is [002](cvv)
* - It is [002](cvv)
* - Its [002](cvv)
* - It's [002](cvv)
* - my cvv code is [002](cvv)
* - my cvv is [002](cvv)
* - cvv is [002](cvv)
* - cvv code is [002](cvv)
* - the code is [002](cvv)
* - it is [002](cvv)
* - its [002](cvv)
* - it's [002](cvv)
* - my CVV code is [002](cvv)
* - my CVV is [002](cvv)
* - CVV is [002](cvv)
* - CVV code is [002](cvv)
* - My CVV code is [002](cvv)
* - My CVV is [002](cvv)
* - my Cvv code is [002](cvv)
* - my Cvv is [002](cvv)
* - Cvv is [002](cvv)
* - Cvv code is [002](cvv)
* - My Cvv code is [002](cvv)
* - My Cvv is [002](cvv)
* - [002](cvv)
* - My cvv code is [850](cvv)
* - My cvv is [960](cvv)
* - Cvv is [752](cvv)
* - Cvv code is [632](cvv)
* - The code is [589](cvv)
* - It is [651](cvv)
* - Its [920](cvv)
* - It's [122](cvv)
* - my cvv code is [635](cvv)
* - my cvv is [695](cvv)
* - cvv is [984](cvv)
* - cvv code is [112](cvv)
* - the code is [330](cvv)
* - it is [036](cvv)
* - its [750](cvv)
* - it's [620](cvv)
* - my CVV code is [506](cvv)
* - my CVV is [420](cvv)
* - CVV is [985](cvv)
* - CVV code is [987](cvv)
* - My CVV code is [321](cvv)
* - My CVV is [654](cvv)
* - my Cvv code is [963](cvv)
* - my Cvv is [145](cvv)
* - Cvv is [143](cvv)
* - Cvv code is [365](cvv)
* - My Cvv code is [985](cvv)
* - My Cvv is [754](cvv)
* - [632](cvv)
* <!-- search doctor by name -->
* - I want a [doctor](facility) and the name is [Dhivya](name)
* - I need a [doctor](facility) and the name is [Dhivya](name)
* - Make an appointment to [doctor](facility) [Dhivya](name)
* - I want a [doctor](facility) and the name is [Hanar](name)
* - I need a [doctor](facility) and the name is [Hanar](name)
* - Make an appointment to [doctor](facility) [Hanar](name)
* - I want a [doctor](facility) and the name is [Janith](name)
* - I need a [doctor](facility) and the name is [Janith](name)
* - Make an appointment to [doctor](facility) [Janith](name)
* - I want a [doctor](facility) and the name is [Keerthana](name)
* - I need a [doctor](facility) and the name is [Keerthana](name)
* - Make an appointment to [doctor](facility) [Keerthana](name)
* - I want a [doctor](facility) and the name is [Hariharan](name)
* - I need a [doctor](facility) and the name is [Hariharan](name)
* - Make an appointment to [doctor](facility) [Hariharan](name)
* - I want a [doctor](facility) and the name is [Chamika](name)
* - I need a [doctor](facility) and the name is [Chamika](name)
* - Make an appointment to [doctor](facility) [Chamika](name)
* - I want a [doctor](facility) and the name is [Kalana](name)
* - I need a [doctor](facility) and the name is [Kalana](name)
* - Make an appointment to [doctor](facility) [Kalana](name)
* - I want a [doctor](facility) and the name is [Haroos](name)
* - I need a [doctor](facility) and the name is [Haroos](name)
* - Make an appointment to [doctor](facility) [Haroos](name)
* - I want a [doctor](facility) and the name is [Ganesh](name)
* - I need a [doctor](facility) and the name is [Ganesh](name)
* - Make an appointment to [doctor](facility) [Ganesh](name)
* - I want a [doctor](facility) and the name is [Sachini](name)
* - I need a [doctor](facility) and the name is [Sachini](name)
* - Make an appointment to [doctor](facility) [Sachini](name)
* - Can you make an appointment to [doctor](facility) [Dhivya](name)
* - Can you make an appointment to [doctor](facility) [Dhivya](name)?
* - I need to make an appointment to [doctor](facility) [Dhivya](name)
* - I want to make an appointment to [doctor](facility) [Dhivya](name)
* - I want to channel [doctor](facility) [Dhivya](name)
* - I need to channel [doctor](facility) [Dhivya](name)
* - Can you make an appointment to [doctor](facility) [Hanar](name)
* - Can you make an appointment to [doctor](facility) [Hanar](name)?
* - I need to make an appointment to [doctor](facility) [Hanar](name)
* - I want to make an appointment to [doctor](facility) [Hanar](name)
* - I want to channel [doctor](facility) [Hanar](name)
* - I need to channel [doctor](facility) [Hanar](name)
* - Can you make an appointment to [doctor](facility) [Janith](name)
* - Can you make an appointment to [doctor](facility) [Janith](name)?
* - I need to make an appointment to [doctor](facility) [Janith](name)
* - I want to make an appointment to [doctor](facility) [Janith](name)
* - I want to channel [doctor](facility) [Janith](name)
* - I need to channel [doctor](facility) [Janith](name)
* - Can you make an appointment to [doctor](facility) [Keerthana](name)
* - Can you make an appointment to [doctor](facility) [Keerthana](name)?
* - I need to make an appointment to [doctor](facility) [Keerthana](name)
* - I want to make an appointment to [doctor](facility) [Keerthana](name)
* - I want to channel [doctor](facility) [Keerthana](name)
* - I need to channel [doctor](facility) [Keerthana](name)
* - Can you make an appointment to [doctor](facility) [Hariharan](name)
* - Can you make an appointment to [doctor](facility) [Hariharan](name)?
* - I need to make an appointment to [doctor](facility) [Hariharan](name)
* - I want to make an appointment to [doctor](facility) [Hariharan](name)
* - I want to channel [doctor](facility) [Hariharan](name)
* - I need to channel [doctor](facility) [Hariharan](name)
* - Can you make an appointment to [doctor](facility) [Chamika](name)
* - Can you make an appointment to [doctor](facility) [Chamika](name)?
* - I need to make an appointment to [doctor](facility) [Chamika](name)
* - I want to make an appointment to [doctor](facility) [Chamika](name)
* - I want to channel [doctor](facility) [Chamika](name)
* - I need to channel [doctor](facility) [Chamika](name)
* - Can you make an appointment to [doctor](facility) [Kalana](name)
* - Can you make an appointment to [doctor](facility) [Kalana](name)?
* - I need to make an appointment to [doctor](facility) [Kalana](name)
* - I want to make an appointment to [doctor](facility) [Kalana](name)
* - I want to channel [doctor](facility) [Kalana](name)
* - I need to channel [doctor](facility) [Kalana](name)
* - Can you make an appointment to [doctor](facility) [Haroos](name)
* - Can you make an appointment to [doctor](facility) [Haroos](name)?
* - I need to make an appointment to [doctor](facility) [Haroos](name)
* - I want to make an appointment to [doctor](facility) [Haroos](name)
* - I want to channel [doctor](facility) [Haroos](name)
* - I need to channel [doctor](facility) [Haroos](name)
* - Can you make an appointment to [doctor](facility) [Ganesh](name)
* - Can you make an appointment to [doctor](facility) [Ganesh](name)?
* - I need to make an appointment to [doctor](facility) [Ganesh](name)
* - I want to make an appointment to [doctor](facility) [Ganesh](name)
* - I want to channel [doctor](facility) [Ganesh](name)
* - I need to channel [doctor](facility) [Ganesh](name)
* - Can you make an appointment to [doctor](facility) [Sachini](name)
* - Can you make an appointment to [doctor](facility) [Sachini](name)?
* - I need to make an appointment to [doctor](facility) [Sachini](name)
* - I want to make an appointment to [doctor](facility) [Sachini](name)
* - I want to channel [doctor](facility) [Sachini](name)
* - I need to channel [doctor](facility) [Sachini](name)
* -[Dhivya](name)
* -[Hanar](name)
* -[Janith](name)
* -[Keerthana](name)
* -[Hariharan](name)
* -[Chamika](name)
* -[Kalana](name)
* -[Haroos](name)
* -[Ganesh](name)
* -[Sachini](name)
* <!-- search doctors by hospital name -->
* - I want to channel a [doctor](facility) in [Nawaloka](hospitalName)
* - I need to channel a [doctor](facility) in [Durdans](hospitalName)
* - Show me [doctor](facility) from [Asia Hospital](hospitalName)
* - Show me some [doctor](facility) from [Asia Hospital](hospitalName)
* - Give me some [doctor](facility) from [Base Hospital](hospitalName)
* - List some [doctor](facility) from [Base Hospital](hospitalName)
* - I want to make an appointment to a [doctor](facility) from [PMCU](hospitalName)
* - I need to make an appointment to a [doctor](facility) from [DH Hospital](hospitalName)
* - [doctor](facility) from [MK Hospital](hospitalName)
* - Any [doctor](facility) from [Lakeside Adeventist](hospitalName)?
* - Who are the [doctor](facility) from [Apollo](hospitalName)?
* - [doctor](facility) in [CDEM](hospitalName)
* -[Nawaloka](hospitalName)
* -[Durdans](hospitalName)
* -[Asia Hospital](hospitalName)
* -[Base Hospital](hospitalName)
* -[PMCU](hospitalName)
* -[DH Hospital](hospitalName)
* -[MK Hospital](hospitalName)
* -[Lakeside Adeventist](hospitalName)
* -[Apollo](hospitalName)
* -[CDEM](hospitalName)
* <!-- both specialization and hospital -->
* - I want to channel a [cardiologist](specialization) in [Nawaloka](hospitalName)
* - I need to channel a [cardiologist](specialization) in [Durdans](hospitalName)
* - Show me [cardiologist](specialization) from [Asia Hospital](hospitalName)
* - Show me some [cardiologist](specialization) from [Asia Hospital](hospitalName)
* - List some [cardiologist](specialization) from [Asia Hospital](hospitalName)
* - Give me some [cardiologist](specialization) from [Base Hospital](hospitalName)
* - I want to make an appointment to a [cardiologist](specialization) from [PMCU](hospitalName)
* - I need to make an appointment to a [cardiologist](specialization) from [DH Hospital](hospitalName)
* - [cardiologist](specialization) from [MK Hospital](hospitalName)
* - Any [cardiologist](specialization) from [Lakeside Adeventist](hospitalName)?
* - Who are the [cardiologist](specialization) from [Apollo](hospitalName)?
* <!-- symptoms -->
* - [fever](symptoms)
* - [cough](symptoms)
* - [stomach irritation](symptoms)
* - [vomiting](symptoms)
* - [headache](symptoms)
* - [red pimple](symptoms)
* - [face irritation](symptoms)
* - [itching](symptoms)
* - [sleepy](symptoms)
* - [stomach ache](symptoms)
* - [chest pain](symptoms)
* - [cold](symptoms)
* - [flu](symptoms)
* - [obesity](symptoms)
* - [rash](symptoms)
* - I have [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - I have [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - I have [headache](symptoms), [sleepy](symptoms) and [fever](symptoms)
* - Symptoms are [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - Symptoms are [face irritation](symptoms), [stomach ache](symptoms) and [red pimple](symptoms)
* - Symptoms are [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - My symptoms are [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - My symptoms are [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - My symptoms are [headache](symptoms), [sleepy](symptoms) and [fever](symptoms)
* - i have [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - i have [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - i have [headache](symptoms), [sleepy](symptoms) and [fever](symptoms)
* - symptoms are [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - symptoms are [face irritation](symptoms), [stomach ache](symptoms) and [red pimple](symptoms)
* - symptoms are [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - my symptoms are [cold](symptoms), [cough](symptoms) and [fever](symptoms)
* - my symptoms are [vomiting](symptoms), [chest pain](symptoms) and [stomach irritation](symptoms)
* - my symptoms are [flu](symptoms), [sleepy](symptoms) and [fever](symptoms)
* - Symptoms are [cough](symptoms) and [fever](symptoms)
* - I have [vomiting](symptoms), [chest pain](symptoms),  [headache](symptoms), [sleepy](symptoms) and [fever](symptoms)
* - My symptoms are [cold](symptoms), [rash](symptoms), [red pimple](symptoms) and [fever](symptoms)
* - symptoms are [cold](symptoms), [cough](symptoms), [obesity](symptoms), [sleepy](symptoms) and [vomiting](symptoms) and [fever](symptoms)
* - i have [fever](symptoms)
* - my symptoms are [fever](symptoms), [chest pain](symptoms), [cold](symptoms), [sleepy](symptoms) and [vomiting](symptoms) and [headache](symptoms)
* **## regex:location**
* - [0-9]{5}
* **## regex:contact\_number**
* - [0-9]{10}
* **## regex:cvv**
* - ^[0-9]{3,4}$
* **## regex:credit\_card**
* - [0-9]{16}
* **## regex:email\_address**
* - (?:\w+@\w+\.\w+)
* **## synonym:doctor**
* - doctors
* - doctor
* - dr
* - Dr
* - doc
* - Doctor
* - Doctors
* - Dr
* - Doc
* **## regex:nic**
* - ^([0-9]{9}[x|X|v|V]|[0-9]{12})$
* **## regex:name**
* - [A-Z][a-zA-Z][^#&<>\"~;$^%{}?]{1,20}$
* **## regex:hospitalName**
* - [A-Z][a-zA-Z][^#&<>\"~;$^%{}?]{1,50}$
* **## regex:symptoms**
* - [A-Z][a-zA-Z][^#&<>\"~;$^%{}?]{1,20}$
* Stories.md

**## symptoms to specilization**

\* greet

  - utter\_greet

\* inform{}

**## doctor appointment happy path path 01**

\* greet

  - utter\_greet

\* search\_provider{"facility":"doctor"}

  - chat\_1\_doctor\_search\_form

  - form{"name": "chat\_1\_doctor\_search\_form"}

  - form{"name": null}

\* inform{"appointmentSlotId": 1}

  - user\_details\_form

  - form{"name": "user\_details\_form"}

  - form{"name": null}

\* thanks

  - utter\_goodbye

<!-- Make a doctor appointment using doctor's name  -->

**## doctor appointment happy path path 02**

\* greet

 - utter\_greet

\* inform{"facility": "doctor", "name": "Dhivya"}

  - chat\_2\_doctor\_search\_form

  - form{"name": "chat\_2\_doctor\_search\_form"}

  - form{"name": null}

\* inform{"appointmentSlotId": 1}

  - user\_details\_form

  - form{"name": "user\_details\_form"}

  - form{"name": null}

\* thanks

  - utter\_goodbye

<!-- Make a doctor appointment using hospital name 01  -->

**## doctor appointment happy path path 03**

\* greet

 - utter\_greet

\* inform{"facility": "doctor", "hospitalName": "Nawaloka"}

  - chat\_3\_doctor\_search\_form

  - form{"name": "chat\_3\_doctor\_search\_form"}

  - form{"name": null}

\* inform{"appointmentSlotId": 1}

  - user\_details\_form

  - form{"name": "user\_details\_form"}

  - form{"name": null}

\* thanks

  - utter\_goodbye

<!-- Make a doctor appointment using hospital name 02  -->

**## doctor appointment happy path path 04**

\* greet

 - utter\_greet

\* inform{"specialization": "cardiologist", "hospitalName": "Nawaloka"}

 - utter\_test

  - chat\_3\_doctor\_search\_form

  - form{"name": "chat\_3\_doctor\_search\_form"}

  - form{"name": null}

\* inform{"appointmentSlotId": 1}

  - user\_details\_form

  - form{"name": "user\_details\_form"}

  - form{"name": null}

\* thanks

  - utter\_goodbye

  <!-- - utter\_test -->

<!-- ## doctor appointment happy path path 01

\* greet

  - utter\_greet

\* search\_provider{"facility":"doctor"}

  - utter\_ask\_specialization

\* inform{"specialization":"cardiologist"}

  - utter\_ask\_location

\* inform{"location":"Colombo"}

  - utter\_ask\_patient\_name

\* inform{"patient\_name":"Hariharan"}

  - utter\_ask\_contact\_number

\* inform{"contact\_number":"0776318136"}

  - utter\_ask\_email\_address

\* inform{"email\_address":"hariharansliit@gmail.com"}

  - utter\_ask\_nic

\* inform{"nic":"991133992V"}

  - utter\_ask\_credit\_card

\* inform{"credit\_card":"2222111122221111"}

  - utter\_ask\_cvv

\* inform{"cvv":"002"}

  - utter\_test -->

**## happy path 1**

\* greet

  - utter\_greet

\* mood\_great

  - utter\_happy

\* goodbye

  - utter\_goodbye

**## sad path 1**

\* greet

  - utter\_greet

\* mood\_unhappy

  - utter\_cheer\_up

  - utter\_did\_that\_help

\* affirm

  - utter\_happy

**## sad path 2**

\* greet

  - utter\_greet

\* mood\_unhappy

  - utter\_cheer\_up

  - utter\_did\_that\_help

\* deny

  - utter\_goodbye

**## say goodbye**

\* goodbye

  - utter\_goodbye

**## bot challenge**

\* bot\_challenge

  - utter\_iamabot

* actions.py
* from rasa\_sdk import Tracker
* from rasa\_sdk.executor import CollectingDispatcher
* from typing import Dict, Text, Any, List
* import requests
* from rasa\_sdk import Action
* from rasa\_sdk.events import SlotSet, FollowupAction
* from rasa\_sdk.forms import FormAction
* import json
* from rasa\_sdk.events import SlotSet
* #
* #
* #
* #
* #
* # Api connections
* def \_find\_doctors1(location: Text, specialization: Text) -> List[Dict]:
* """Returns json of doctor appointment details matching the search criteria."""
* if str.isdigit(location):
* full\_path = "http://localhost:9090/Echannel/listAllDoctorsByZipcodeAndSpecialization?specialization=" + specialization + "&zipcode=" + location
* else:
* full\_path = "http://localhost:9090/Echannel/listAllDoctorsByLocationAndSpecialization?specialization=" + specialization + "&location=" + location
* print("Full path:")
* print(full\_path)
* results = requests.get(full\_path).json()
* return results
* # Find appointments based on doctor name
* # http://localhost:9090/Echannel/listAllDoctorsByDoctorName?doctorName=Dhivya
* def \_find\_doctors2(doctor\_name: Text) -> List[Dict]:
* """Returns json of doctor appointment details matching the search criteria."""
* full\_path = "http://localhost:9090/Echannel/listAllDoctorsByDoctorName?doctorName=" + doctor\_name
* print("Full path:")
* print(full\_path)
* results = requests.get(full\_path).json()
* return results
* # Find appointments based on hospital name and specialization
* # http://localhost:9090/Echannel/listAllDoctorsByHospitalAndSpecializatiom?specialization=Physician&hospital=Nawaloka
* def \_find\_doctors3(hospitalName: Text, specialization: Text) -> List[Dict]:
* """Returns json of doctor appointment details matching the search criteria."""
* full\_path = "http://localhost:9090/Echannel/listAllDoctorsByHospitalAndSpecializatiom?specialization=" + specialization + "&hospital=" + hospitalName
* print("Full path:")
* print(full\_path)
* results = requests.get(full\_path).json()
* return results
* #
* #
* #
* #
* #
* class Chat\_1\_doctor\_search\_form(FormAction):
* """Custom form action to fill all slots required to find
* the doctor appointment details"""
* def name(self) -> Text:
* """Unique identifier of the form"""
* return "chat\_1\_doctor\_search\_form"
* @staticmethod
* def required\_slots(tracker: Tracker) -> List[Text]:
* """A list of required slots that the form has to fill"""
* return ["specialization", "location"]
* def slot\_mappings(self) -> Dict[Text, Any]:
* return {"specialization": self.from\_entity(entity="specialization",
* intent=["inform"]),
* "location": self.from\_entity(entity="location",
* intent=["inform"])}
* def submit(self,
* dispatcher: CollectingDispatcher,
* tracker: Tracker,
* domain: Dict[Text, Any]
* ) -> List[Dict]:
* """Once required slots are filled, print buttons for found facilities"""
* location = tracker.get\_slot('location')
* specialization = tracker.get\_slot('specialization')
* results = \_find\_doctors1(location, specialization)
* button\_name = specialization
* if len(results) == 0:
* dispatcher.utter\_message(
* "Sorry, we could not find a {} in {}.".format(button\_name,
* location.title()))
* return []
* buttons = []
* # limit number of results to 3 for clear presentation purposes
* for r in results[:3]:
* appointmentSlotId = str(r.get("appointmentSlotId"))
* doctorName = str(r.get("doctorName"))
* hospitalName = str(r.get("hospitalName"))
* date = str(r.get("date"))
* time = str(r.get("time"))
* charge = str(r.get("charge"))
* address = str(r.get("address"))
* details = " Appoitment: Doctor => " + doctorName.title() + ", Hospital => " + hospitalName.title() + ", Date => " + date.title() + ", Time => " + time.title() + ", Charge => " + charge.title() + ", Address => " + address.title() + ""
* payload = "/inform{\"appointmentSlotId\":\"" + appointmentSlotId + "\"}"
* buttons.append(
* {"title": "{}".format(details), "payload": payload})
* if len(buttons) == 1:
* message = "Here is a {} near you:".format(button\_name)
* else:
* message = "Here are {} {}s near you:".format(len(buttons),
* button\_name)
* # TODO: update rasa core version for configurable `button\_type`
* dispatcher.utter\_button\_message(message, buttons)
* return []
* # Displaying appointments for the user - Appointments are based on doctor name
* class Chat\_2\_doctor\_search\_form(FormAction):
* """Custom form action to fill all slots required to find
* the doctor appointment details"""
* def name(self) -> Text:
* """Unique identifier of the form"""
* return "chat\_2\_doctor\_search\_form"
* @staticmethod
* def required\_slots(tracker: Tracker) -> List[Text]:
* """A list of required slots that the form has to fill"""
* return ["name"]
* def slot\_mappings(self) -> Dict[Text, Any]:
* return {"name": self.from\_entity(entity="name",
* intent=["inform"])}
* def submit(self,
* dispatcher: CollectingDispatcher,
* tracker: Tracker,
* domain: Dict[Text, Any]
* ) -> List[Dict]:
* """Once required slots are filled, print buttons for found facilities"""
* doctor\_name = tracker.get\_slot('name')
* results = \_find\_doctors2(doctor\_name)
* button\_name = doctor\_name
* if len(results) == 0:
* dispatcher.utter\_message(
* "Sorry, we could not find a {} in {}.".format(button\_name,
* location.title()))
* return [SlotSet("name", None)]
* buttons = []
* # limit number of results to 3 for clear presentation purposes
* for r in results[:3]:
* appointmentSlotId = str(r.get("appointmentSlotId"))
* doctorName = str(r.get("doctorName"))
* hospitalName = str(r.get("hospitalName"))
* date = str(r.get("date"))
* time = str(r.get("time"))
* charge = str(r.get("charge"))
* address = str(r.get("address"))
* details = " Appoitment: Doctor => " + doctorName.title() + ", Hospital => " + hospitalName.title() + ", Date => " + date.title() + ", Time => " + time.title() + ", Charge => " + charge.title() + ", Address => " + address.title() + ""
* payload = "/inform{\"appointmentSlotId\":\"" + appointmentSlotId + "\"}"
* buttons.append(
* {"title": "{}".format(details), "payload": payload})
* if len(buttons) == 1:
* message = "Here is a {} near you:".format(button\_name)
* else:
* message = "Here are {} {}s near you:".format(len(buttons),
* button\_name)
* # TODO: update rasa core version for configurable `button\_type`
* dispatcher.utter\_button\_message(message, buttons)
* return [SlotSet("name", None)]
* # Displaying appointments for the user - Appointments are based on hospital name
* class Chat\_3\_doctor\_search\_form(FormAction):
* """Custom form action to fill all slots required to find
* the doctor appointment details"""
* def name(self) -> Text:
* """Unique identifier of the form"""
* return "chat\_3\_doctor\_search\_form"
* @staticmethod
* def required\_slots(tracker: Tracker) -> List[Text]:
* """A list of required slots that the form has to fill"""
* return ["hospitalName", "specialization"]
* def slot\_mappings(self) -> Dict[Text, Any]:
* return {"hospitalName": self.from\_entity(entity="hospitalName",
* intent=["inform"]),
* "specialization": self.from\_entity(entity="specialization",
* intent=["inform"])}
* def submit(self,
* dispatcher: CollectingDispatcher,
* tracker: Tracker,
* domain: Dict[Text, Any]
* ) -> List[Dict]:
* """Once required slots are filled, print buttons for found facilities"""
* hospitalName = tracker.get\_slot('hospitalName')
* specialization = tracker.get\_slot('specialization')
* results = \_find\_doctors3(hospitalName, specialization)
* button\_name = hospitalName
* if len(results) == 0:
* dispatcher.utter\_message(
* "Sorry, we could not find a {} in {}.".format(hospitalName,
* hospitalName.title()))
* return []
* buttons = []
* # limit number of results to 3 for clear presentation purposes
* for r in results[:3]:
* appointmentSlotId = str(r.get("appointmentSlotId"))
* doctorName = str(r.get("doctorName"))
* hospital = str(r.get("hospitalName"))
* date = str(r.get("date"))
* time = str(r.get("time"))
* charge = str(r.get("charge"))
* address = str(r.get("address"))
* details = " Appoitment: Doctor => " + doctorName.title() + ", Hospital => " + hospital.title() + ", Date => " + date.title() + ", Time => " + time.title() + ", Charge => " + charge.title() + ", Address => " + address.title() + ""
* payload = "/inform{\"appointmentSlotId\":\"" + appointmentSlotId + "\"}"
* buttons.append(
* {"title": "{}".format(details), "payload": payload})
* if len(buttons) == 1:
* message = "Here is a {} near you:".format(button\_name)
* else:
* message = "Here are {} {}s near you:".format(len(buttons),
* button\_name)
* # TODO: update rasa core version for configurable `button\_type`
* dispatcher.utter\_button\_message(message, buttons)
* return []
* #
* #
* #
* #
* #
* def \_make\_appointment(patient\_name: Text, nic: Text, email\_address: Text, contact\_number: Text, appointmentSlotId: Text, credit\_card: Text, cvv: Text) -> List[Dict]:
* """Appointment making function which retrns the status and message of making appointment"""
* full\_path = "http://localhost:9090/Echannel/makeAppointment"
* print("Full path:")
* print(full\_path)
* results = requests.post(full\_path, data={'name': patient\_name, 'nic': nic, 'email': email\_address, 'contact': contact\_number, 'aSlotId': appointmentSlotId, 'creditCardNumber': credit\_card, 'cvc': cvv}).json()
* return results
* class User\_details\_form(FormAction):
* """Custom form action to fill all slots required to make
* an appointment"""
* def name(self) -> Text:
* """Unique identifier of the form"""
* return "user\_details\_form"
* @staticmethod
* def required\_slots(tracker: Tracker) -> List[Text]:
* """A list of required slots that the form has to fill"""
* return ["name", "contact\_number", "email\_address", "nic", "credit\_card", "cvv"]
* def slot\_mappings(self) -> Dict[Text, Any]:
* return {"name": self.from\_entity(entity="name",
* intent=["inform"]),
* "contact\_number": self.from\_entity(entity="contact\_number",
* intent=["inform"]),
* "email\_address": self.from\_entity(entity="email\_address",
* intent=["inform"]),
* "nic": self.from\_entity(entity="nic",
* intent=["inform"]),
* "credit\_card": self.from\_entity(entity="credit\_card",
* intent=["inform"]),
* "cvv": self.from\_entity(entity="cvv",
* intent=["inform"])}
* def submit(self,
* dispatcher: CollectingDispatcher,
* tracker: Tracker,
* domain: Dict[Text, Any]
* ) -> List[Dict]:
* """Once required slots are filled, Triggering the appointment function"""
* patient\_name = tracker.get\_slot('name')
* contact\_number = tracker.get\_slot('contact\_number')
* email\_address = tracker.get\_slot('email\_address')
* nic = tracker.get\_slot('nic')
* credit\_card = tracker.get\_slot('credit\_card')
* cvv = tracker.get\_slot('cvv')
* appointmentSlotId = tracker.get\_slot('appointmentSlotId')
* print("patient\_name: " + patient\_name)
* print("contact\_number: " + contact\_number)
* print("email\_address: " + email\_address)
* print("nic: " + nic)
* print("credit\_card: " + credit\_card)
* print("cvv: " +cvv)
* print("appointmentSlotId: " +appointmentSlotId)
* results = \_make\_appointment(patient\_name, nic, email\_address, contact\_number, appointmentSlotId, credit\_card, cvv)
* status = results.get("status")
* message = str(results.get("message"))
* if status == 0:
* dispatcher.utter\_message(
* "Failed!!! " + message)
* return []
* else:
* dispatcher.utter\_message(
* "Success!!! " + message)
* return []
* Config.yml
* # Configuration for Rasa NLU.
* # https://rasa.com/docs/rasa/nlu/components/
* language: "en"
* pipeline:
* - name: "WhitespaceTokenizer"
* - name: "RegexFeaturizer"
* - name: "CRFEntityExtractor"
* - name: "EntitySynonymMapper"
* - name: "CountVectorsFeaturizer"
* - name: "EmbeddingIntentClassifier"
* # Configuration for Rasa Core.
* # https://rasa.com/docs/rasa/core/policies/
* policies:
* - name: MemoizationPolicy
* - name: MappingPolicy
* - name: EmbeddingPolicy
* - name: FormPolicy
* - name: FallbackPolicy
* nlu\_threshold: 0.3
* ambiguity\_threshold: 0.1
* core\_threshold: 0.3
* fallback\_action\_name: 'utter\_ask\_repeat'
* # - name: TwoStageFallbackPolicy
* Domain.yml
* intents:
* - greet
* - affirm
* - neutral
* - deny
* - out\_of\_scope
* - goodbye
* - thanks
* - mood\_great
* - mood\_unhappy
* - bot\_challenge
* - search\_provider
* - inform
* entities:
* - facility
* - specialization
* - location
* - name
* - contact\_number
* - email\_address
* - nic
* - credit\_card
* - cvv
* - hospitalName
* - symptoms
* slots:
* specialization:
* type: unfeaturized
* location:
* type: unfeaturized
* appointmentSlotId:
* type: unfeaturized
* name:
* type: unfeaturized
* contact\_number:
* type: unfeaturized
* email\_address:
* type: unfeaturized
* nic:
* type: unfeaturized
* credit\_card:
* type: unfeaturized
* cvv:
* type: unfeaturized
* charge:
* type: unfeaturized
* hospitalName:
* type: unfeaturized
* symptoms:
* type: list
* actions:
* - utter\_greet
* - utter\_select\_option
* - utter\_cheer\_up
* - utter\_did\_that\_help
* - utter\_happy
* - utter\_goodbye
* - utter\_iamabot
* - utter\_noworries
* - utter\_out\_of\_scope
* - utter\_pardon\_response
* - utter\_test
* - utter\_ask\_specialization
* - utter\_ask\_location
* - utter\_ask\_name
* - utter\_ask\_contact\_number
* - utter\_ask\_email\_address
* - utter\_ask\_nic
* - utter\_ask\_credit\_card
* - utter\_ask\_cvv
* - utter\_ask\_repeat
* forms:
* - chat\_1\_doctor\_search\_form
* - chat\_2\_doctor\_search\_form
* - chat\_3\_doctor\_search\_form
* - user\_details\_form
* responses:
* utter\_greet:
* - text: "Hi, I am an E-Chenneling chat-bot, I can help you to make make an appointment. How can I help you?"
* utter\_select\_option:
* - text: "Select one of the options to continue:"
* utter\_cheer\_up:
* - text: "Here is something to cheer you up:"
* image: "https://i.imgur.com/nGF1K8f.jpg"
* utter\_did\_that\_help:
* - text: "Did that help you?"
* utter\_happy:
* - text: "Great, carry on!"
* utter\_goodbye:
* - text: "Thanks alot for using our service"
* utter\_iamabot:
* - text: "I am a bot, powered by Rasa."
* utter\_noworries:
* - text: "You are welcome!"
* utter\_out\_of\_scope:
* - text: "Sorry! I dont know about it..."
* utter\_pardon\_response:
* - text: "Do you need any other service?"
* utter\_test:
* - text: "Testing..."
* utter\_ask\_specialization:
* - text: "Can you specify the specialization?"
* utter\_ask\_location:
* - text: "Can you provide your city (Colombo) or zip-code (00100)?"
* utter\_ask\_name:
* - text: "Can you provide the patient's name (eg: Mary)?"
* utter\_ask\_contact\_number:
* - text: "Can you provide the contact number (eg: 0771234567)?"
* utter\_ask\_email\_address:
* - text: "Can you provide the email address (eg: user@gmail.com)?"
* utter\_ask\_nic:
* - text: "Can you provide your NIC number (eg: 123456789V or 199912365478)?"
* utter\_ask\_credit\_card:
* - text: "Can you provide your credit card number number (eg: 1111222233334444)?"
* utter\_ask\_cvv:
* - text: "Can you provide your cvv code (eg: 002)?"
* utter\_ask\_repeat:
* - text: "Sorry, I didn't quite understand. Can you rephrase?"