

Bodybuilding Exercise Recommendation Chatbot

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Project Introduction

Introduction:

- This project is building a Task-Oriented chatbot.
- Through the conversation, answer the exercise which users want to know.
- Using Telegram be user interface

Motivation:

- AI, Big Data and Chatbot
- Workout exercise

Aim:

- Let any kind of level user can easily find what they need.

Difficulty:

- Find the exercise dataset.

What I learn:

- Python, web crawler

Project Introduction

Chatbot:

- A chatbot is a program designed to counterfeit a smart communication on a text or spoken ground.



Project Introduction

NLU:

- Natural-language understanding (NLU) is a subtopic of natural-language processing in artificial intelligence that deals with machine reading comprehension.

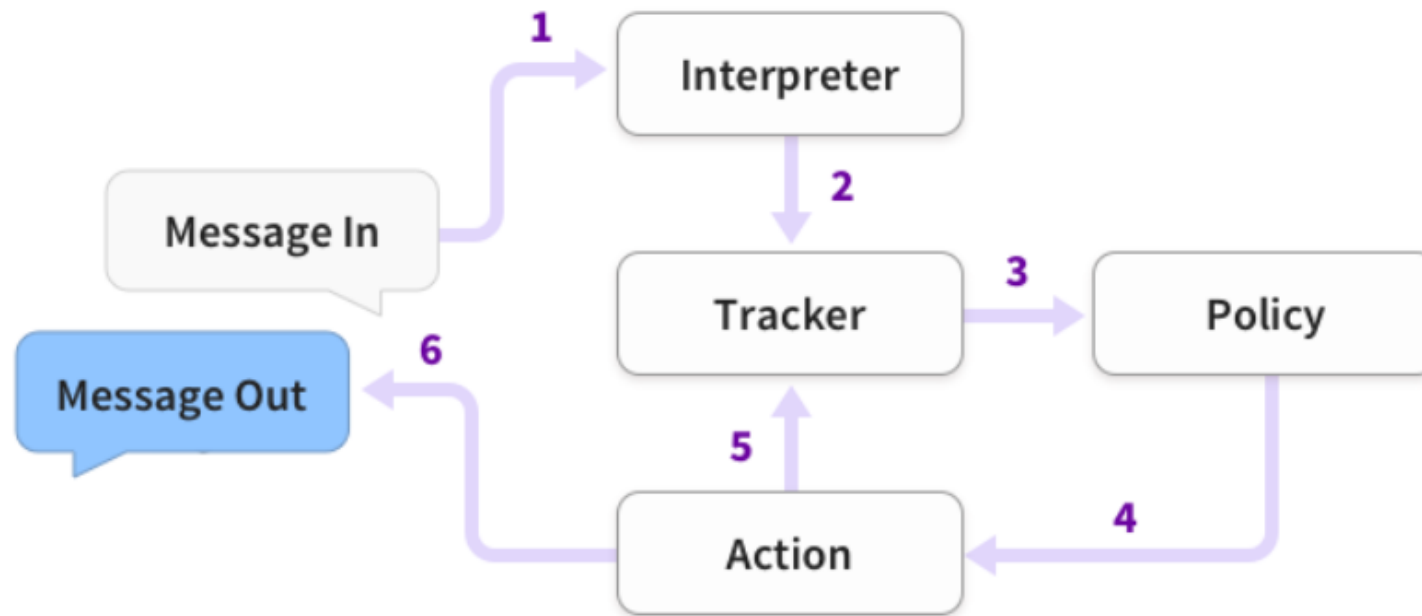
Rasa:

- Rasa is an open-source Machine Learning framework for making chatbots.
- Customization
- API integration
- Connection



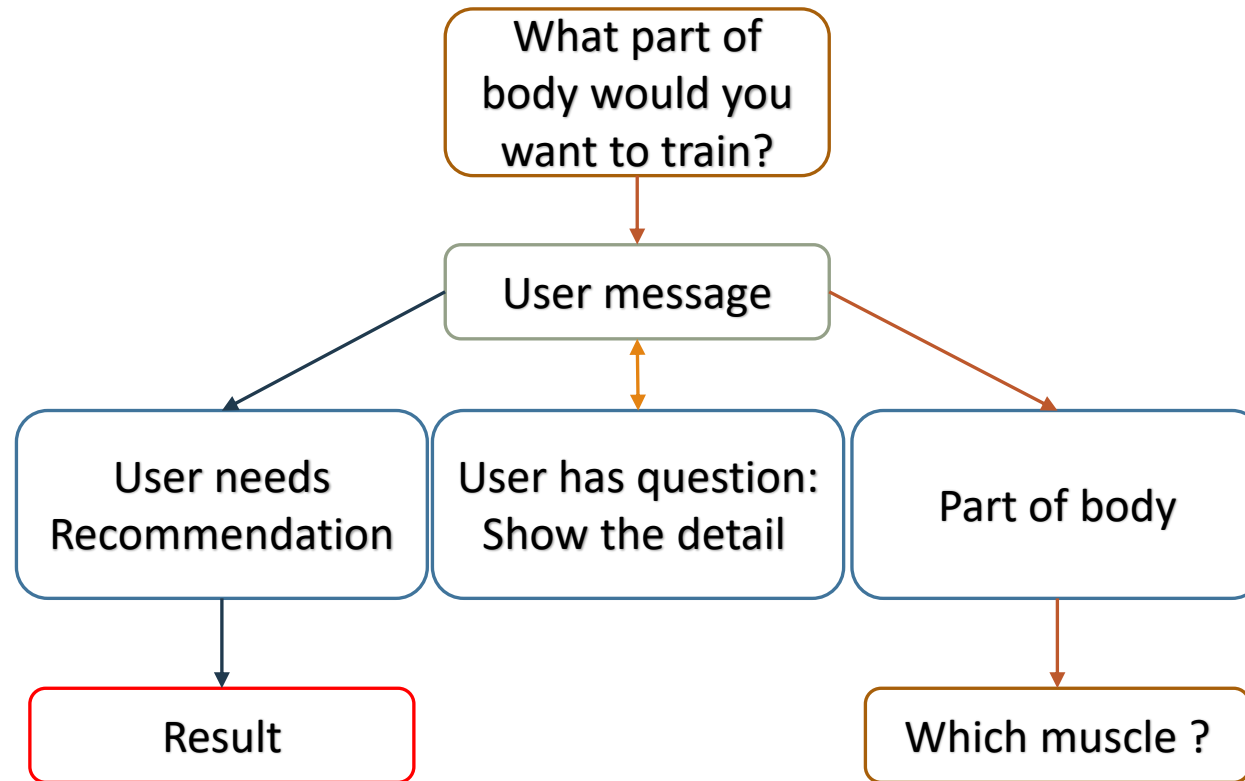
Rasa Architecture

This diagram shows the basic steps of how an assistant built with Rasa responds to a message:

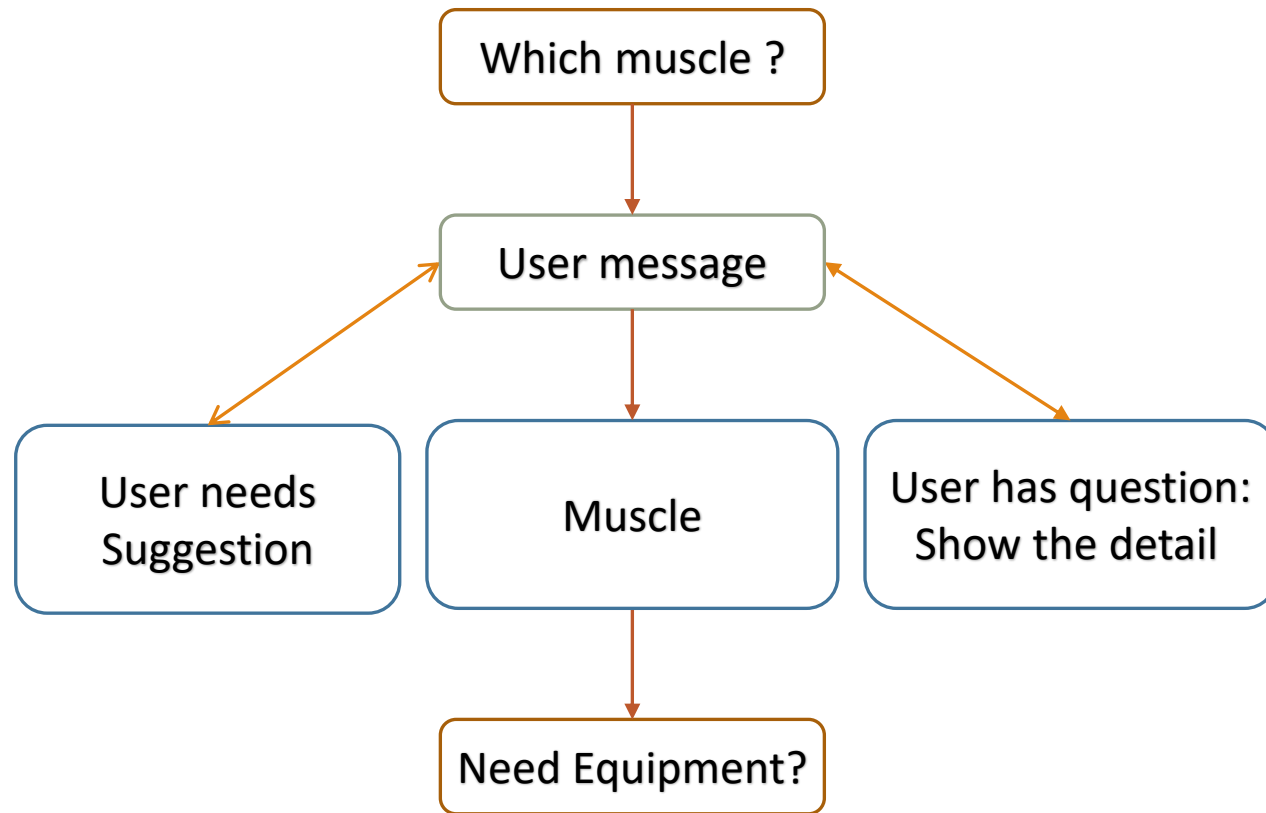


Reference from <https://rasa.com/docs/rasa/user-guide/architecture/>

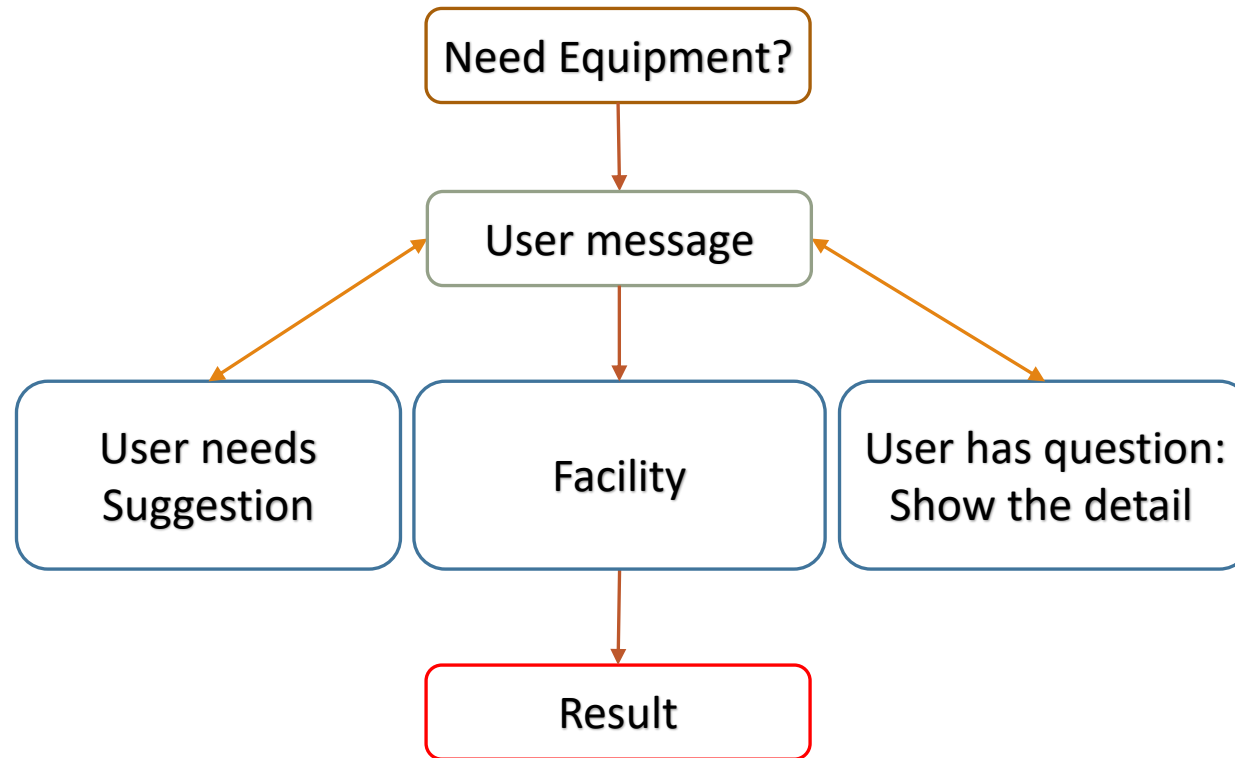
Project Design Flow (Part 1)



Project Design Flow (Part 2)



Project Design Flow (Part 3)



Demo

Summary & Reference

Summary:

- This project is task-oriented chatbot with NLU and Rasa architecture.
- Rasa architecture contains Interpreter, Tracker, Policy and Action.
- According to user's reply to do the corresponding action.
- Using python, web crawler to get the dataset.

Reference:

- Wikipedia, https://en.wikipedia.org/wiki/Natural-language_understanding
- Dahiya, M. & Dahiya, M., 2017. Network Security View project A Tool of Conversation: Chatbot. Article in *INTERNATIONAL JOURNAL OF COMPUTER SCIENCES AND ENGINEERING*
- Madhu Sanjeevi (Mady), 2018, Chapter 11: ChatBots to Question & Answer systems, <https://medium.com/deep-math-machine-learning-ai/chapter-11-chatbots-to-question-answer-systems-e06c648ac22a>
- Rasa, <https://rasa.com/docs/rasa/user-guide/architecture/>