<u>RASA</u>

Introduction:

- **Rasa Open Source** is a conversational **AI** framework for building **contextual assistants** and **Chatbots**.

- **Rasa Open Source** includes

  - **NLU**

  - **Core**

  - **Channels** and **integrations**

- **Rasa X** is a toolset that helps you leverage conversations to improve the customer experience better.
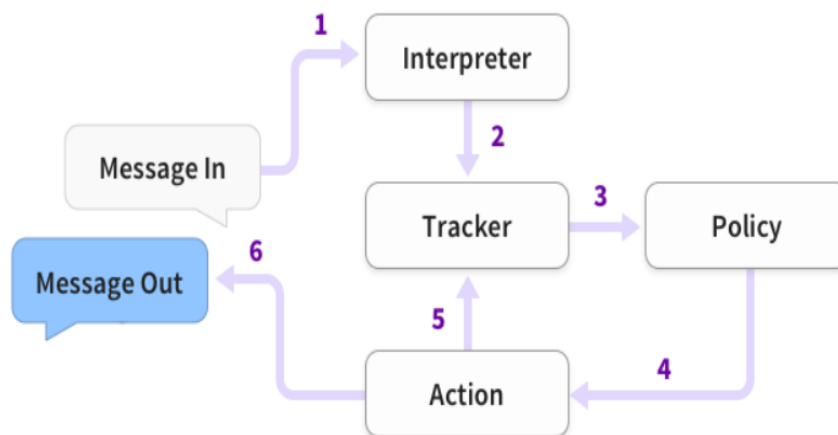
Prerequisites:

- The prerequisites for Installing in windows

  - Python Installed. (requires Python 3.6 or 3.7)

  - Microsoft Build tools with visual c++ 14.0 installed.
    https://visualstudio.microsoft.com/downloads/

Introduction to RASA

- **Rasa** is an Open Source machine learning framework for building contextual **AI assistants** and **chatbots**:

- **Rasa** has two main modules:

  1. **NLU.**

  2. **Core.**

- **NLU:** for understanding the user messages.

- **Core:** for holding conversations and decides what to do next.

RASA Architecture

The steps are:

1. The message is received and passed to an Interpreter, which converts it into a dictionary including the original text, the intent, and any entities that were found.

   This part is handled by **NLU**. (1st Module)

2. The **Tracker** is the object which keeps track of conversations state. It receives the info whenever receives new message has come in.
3. The **policy** receives the current state of the tracker.
4. The **policy** chooses which **action** to take next. (2nd Module)
5. The chosen action is logged by the tracker.
6. A response is sent to the user