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Master of Science in Engineering Technology

Electronics & ICT, option ICT

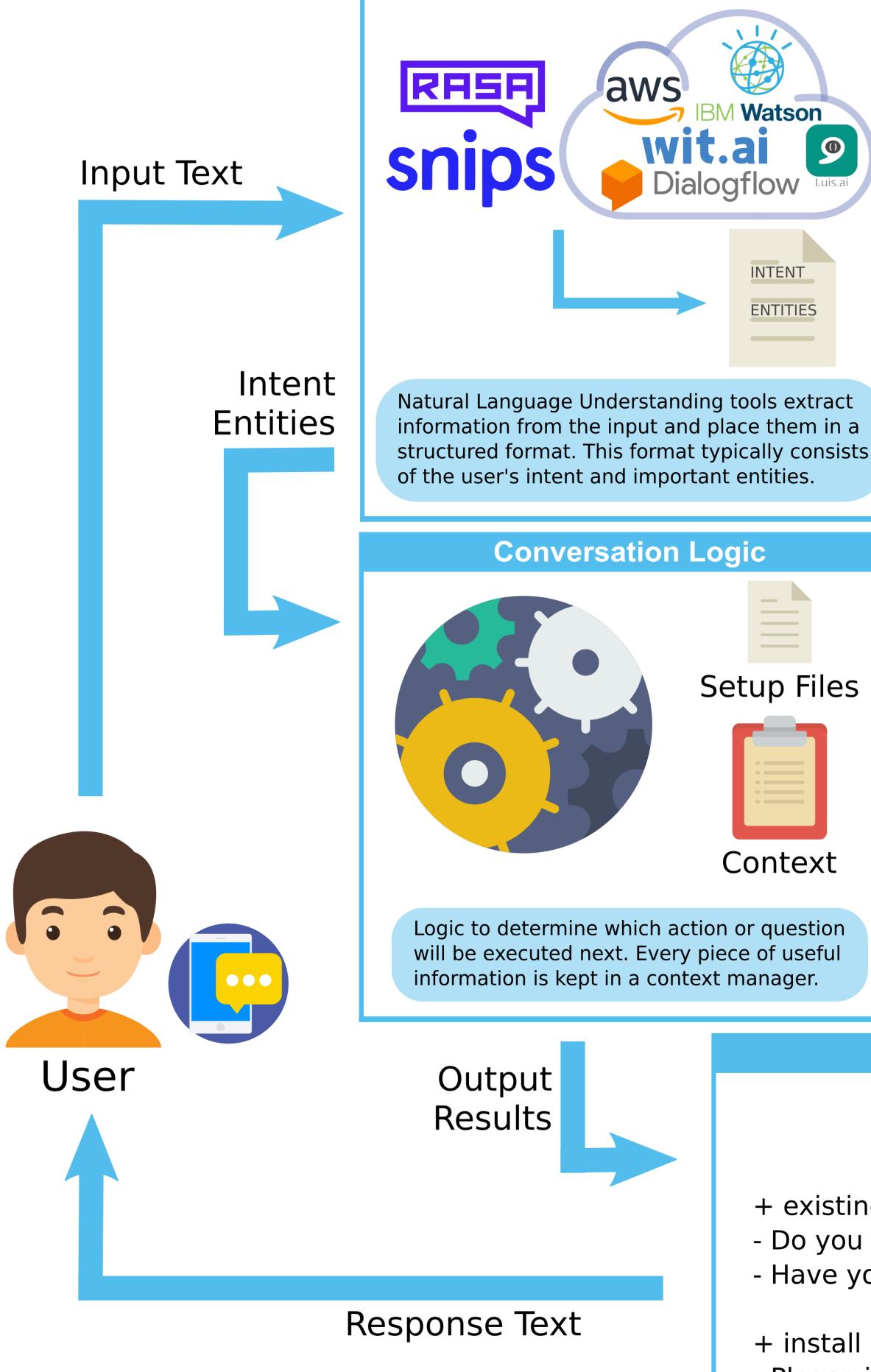
**Academic year** 2018 – 2019

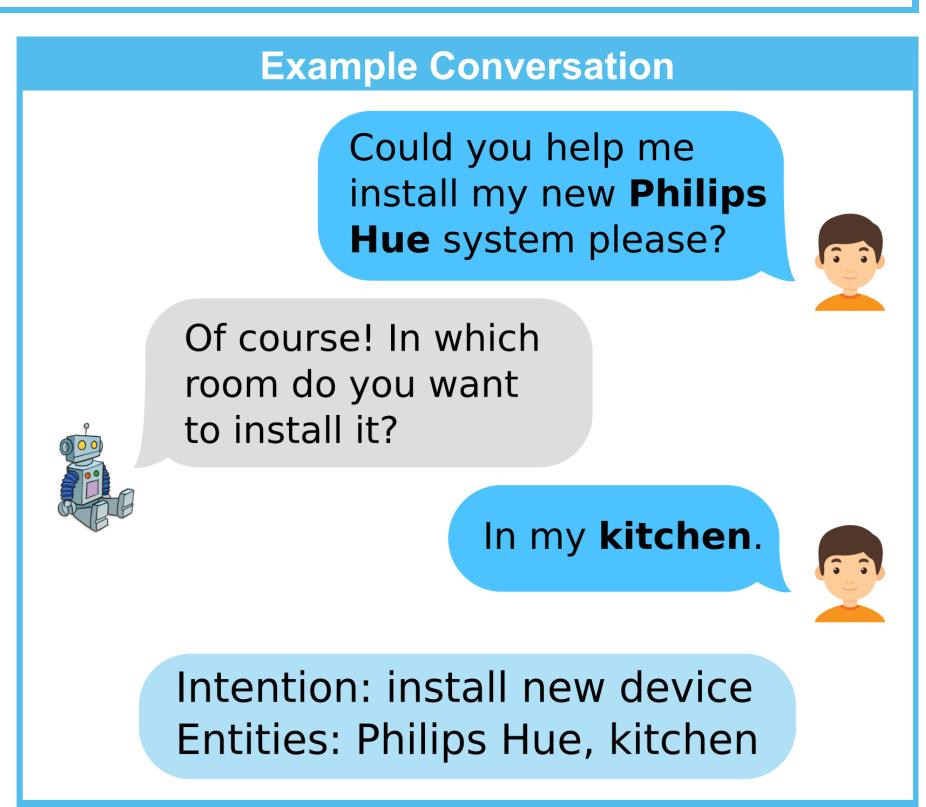
## A Guidance Chatbot for Home **IoT Device Commissioning**

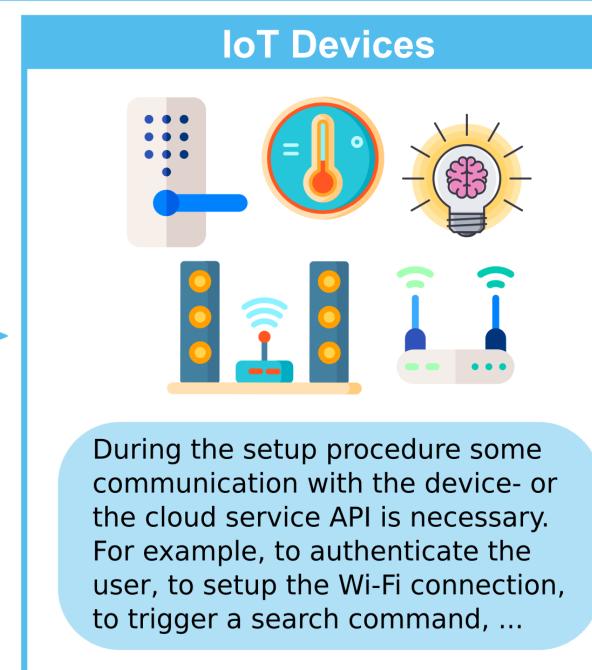
Design and Implementation

**PROBLEM** – The commissioning process of a so-called **Smart Home** devices consists of several actions to be taken. Examples are connecting wires, pressing link buttons, scanning QR codes, ... These often encounter some difficulties for people who are not familiar with these actions. To resolve this problem a guiding chatbot could be used to guide the user through the steps and to give support if the uses encounters a problem. The chatbot is developed to commission devices in the SMIoT framework.

**Natural Language Understanding tool** 











- + existing account
- Do you have a <get vendor> account?

Actions

Results

- Have you already created a <get vendor> account?
- + install device
- Please install the <get install-device> <get install-place>.

RiveScript is an easy to learn scripting language for chatbot creation. It's based on pattern matching and provides the possibility to substitute information from an external context structure into the responses.