

## Chatbot Report

### Introduction

In this first project we want to build a chatbot in node js. We first made a practice lesson on facebook chatbot, now we will build it from scratch and by ourself. This chatbot is a weather chatbot, we should be able to ask him the weather of a city and get the response.

#### 1. Structure of the project

The application got some folders

▶	folder	matcher	30 janvier 2019 10:33	--	Dossier
▶	folder	node_modules	aujourd'hui 01:30	--	Dossier
	file	package-lock.json	aujourd'hui 01:30	3 Ko	JSON
	file	package.json	aujourd'hui 01:30	298 octets	JSON
▶	folder	patterns	30 janvier 2019 10:21	--	Dossier
▶	folder	weather	avant-hier 00:01	--	Dossier

Matcher : in this package we build our matcher function to match patterns and intents with the library RegEx.

Node\_modules : contains all mudules for running node js

Patterns : contains all pattern that the user will writte

Weather : contains function with the API to get the weather

## 2. Patterns :

```
const patternDict = [{
  pattern: '\\b(?<greeting>Hi|Hello|Hey|Bonjour|salut)\\b',
  intent: 'Hello'
},
{
  pattern: '\\b(bye|exit|quit)\\b',
  intent: 'Exit'
},
{
  //pattern: "(how|what).is.the.(time|weather).in\\b(?<city>.)",
  pattern: "like\\sin\\s\\b(?<city>.+)",
  intent: "CurrentWeather"
},
{
  pattern: "\\b(how|what|are|up|you|'s|r)\\b",
  intent: "how are you"
}
];

module.exports=patternDict;
```

In the patternDict we put a Reg Expression.

## 3. Weather

```
"use strict"
const axios=require("axios");
const apikey="cf5d3934b7094475b23225530191002";

const getWeather = location =>
{
  return new Promise(async (resolve,reject)=>
  {
    try
    {
      let url="http://api.apixu.com/v1/current.json?key=cf5d3934b7094475b23225530191002&q="+location;
      //console.log("URL :"+url)
      const weatherConditions=await axios.get(url);

      console.log("The weather is ".underline.red+weatherConditions.data.current.condition.text+" and the temperatu
    }
    catch(error)
    {
      reject(error);
    }
  });
}

module.exports=getWeather;
```

I made the choice to request the api by the url and the library axios.

#### 4. App.js

```
const readline=require('readline');//
const rl=readline.createInterface({
  input: process.stdin,
  output: process.stdout,
  terminal: false
})

const matcher=require('./matcher');

rl.setPrompt('>');
rl.prompt();
rl.on('line',reply=>{

  matcher(reply,cb=>{
    switch(cb.intent)
    {
      case "Hello":
        console.log(`${cb.entities.greeting} to you too!`.green);
        rl.prompt();
        break;

      case "Exit":
        console.log("Aurevoir et merci bien.".green)
        process.exit(0);
      case "CurrentWeather":
        console.log(`h you want the current weather for ${cb.entities.city} what a nice place !`.green);

      case "CurrentWeather":
        let w=weather(cb.entities.city);
      case "how are you":
        console.log("I'm feeling fine this day".green)
    }
  })
})
```

App. Js contains the main of the project and all the cases that the chatbot can handle.

#### 5. Example of code

```
[MacBook-Pro-de-ALAIIS:vanilla alaisquentin$ node app.js
>Hello
Hello to you too!
>What is the weather like in Paris
you want the current weather for Paris what a nice place !
The weather is Fog and the temperature is -1 °C.
What is the Weather like in London
you want the current weather for London what a nice place !
The weather is Sunny and the temperature is 8 °C.
what is the weather like in Brasilia
you want the current weather for Brasilia what a nice place !
The weather is Clear and the temperature is 19 °C.
bye
Aurevoir et merci bien.
MacBook-Pro-de-ALAIIS:vanilla alaisquentin$
```