Natural Language Processing Final Report – LinkBot

LinkBot

GitHub Link: https://github.com/kvnngn/chatbot-NLP

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Table des matières

1 User Guide

This user guide is a manual, it's intended to give assistance to people using our product. This user guide was written by **LinkBot Team**.

1.1 Description of the product

LinkBot is a website with a chatbot, who can help people to find the main subject of a website.

This concept of website is like elbot.com, a chatbot website.

1.2 How to use the software

The product is to be used as follows:

- No need to Sign-in, just send the link of a valid website.

2 Developer Guide

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2.1 System architecture
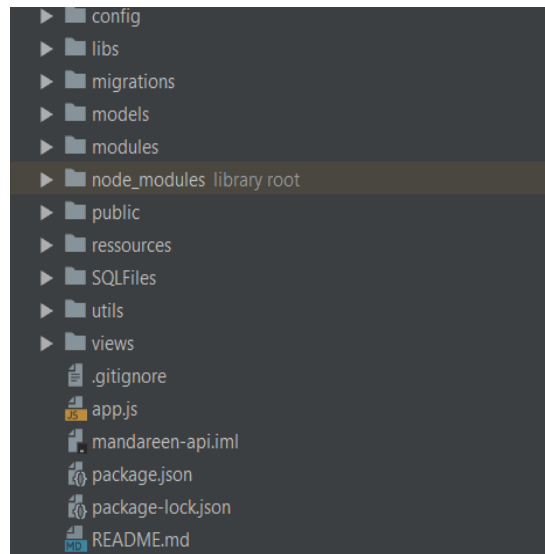
Modules description
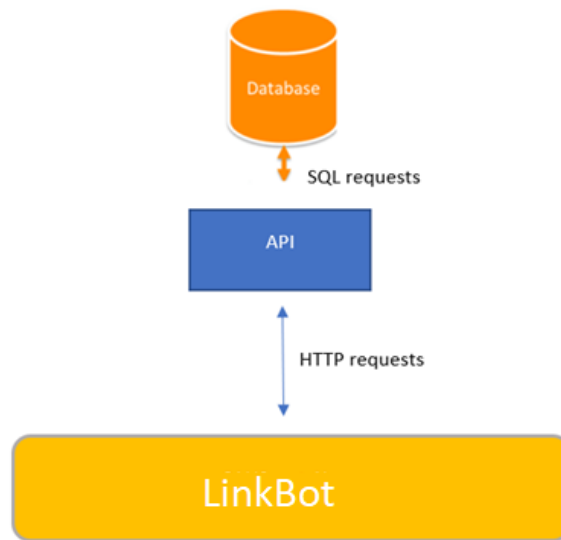
2.2 Source code structure

Details description: **The API-Rest with Express**

We used Angular6 (Front-end framework) with a JavaScript back-end for the website and Node.JS (express module) for our API.

Our API is linked with our analist where we do the treatment.
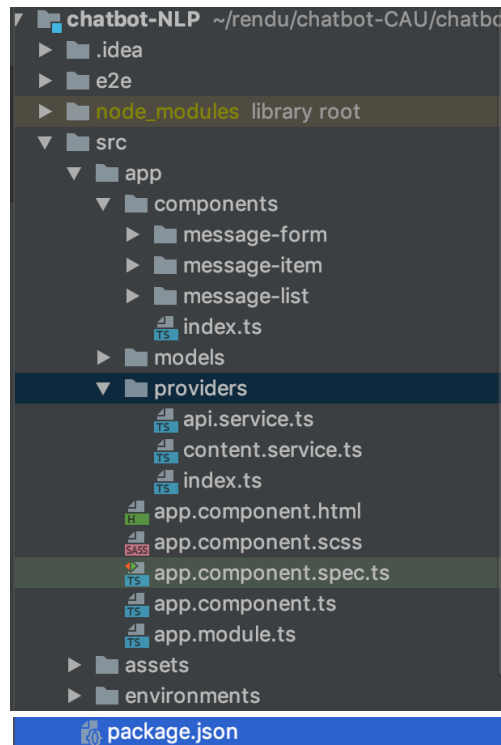
API architecture:

```
/ contentFromUrl
```

Package.json: a JSON file where all dependencies are listed.

Details description: **The Website with Angular**

The Angular project is using an MVC architecture, the component is composed of Typescript (.ts), HTML, CSS and/or SCSS files.

/src: in this folder, you can find all the source files called component. In Angular, there is the module files which are used to declare the components. A component contains the back-end source code. There is also the route file which allow users to access to the different urls.

/node_modules: this folder content all the dependencies/module managed by NodeJS.

package.json: a JSON file where all dependencies are listed.

2.3 How to build
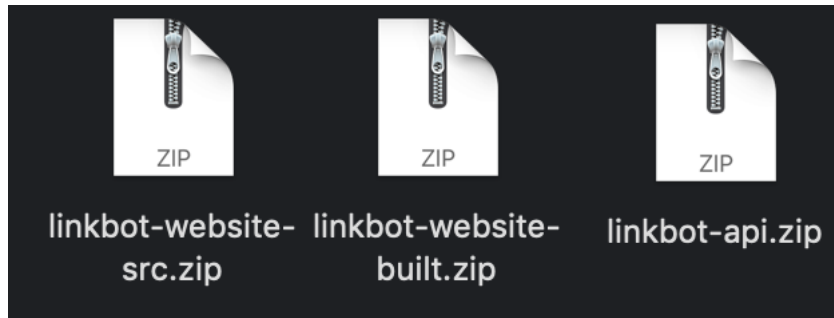
After extracting the archive, enter on the folder, you can find the api, the website src and the website built.

For the website:

THE DUE WILL CONTAIN THE WEBSITE BUILT BUT IF YOU WANT TO BUILD BY YOURSELF PLEASE FOLLOW THE FOLLOWING STEPS:

The website is based on Angular framework. So, in order to launch/build the project, we will need to:

- Install NodeJS (try '*npm −v*' to verify if it installed successfully)

- Install ReactJS module (`npm i @angular/cli`)

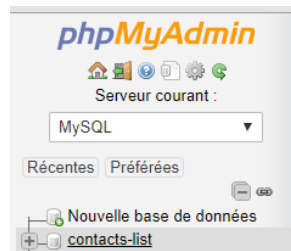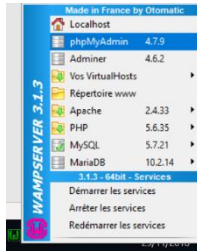- Install the project dependencies (`npm i`)

Once the dependencies installed, you are ready to launch the project with the following command: *ng serve* and access to this link. (http://localhost:4200)

Please read the readme.md file to get more details.

For the API:

The API is based on Node JS Express module. So, in order to launch the API, we will need to:

- Install NodeJS (try '*npm –v*' to verify if it installed successfully)

- Install Wamp, to get mysql, phpMyAdmin and apache softwares

- Install nodemon : *npm install nodemon*

   - go on phpMyAdmin from Wamp and create your database : linkbot. (please respect and verify the name)

- Then, install Sequelize and MySQL dependencies (*npm install -g sequelize sequelize-cli mysql -g*)

- Install the API dependencies (*npm i*)

Once the dependencies installed, you are ready to launch the project using this command : npm run win_debug

Please read the readme.md file to get more details.

2   Project expectation

3.1 UI/UX

> **Welcome, I am Kevin your assistant, need a help to get the main subject on a website ? Just send me the link.**
>
> 🕐 at 13/06/2019 18:49

> hello
>
> 🕐 at 13/06/2019 18:49

> **Sorry, but the message doesn't contain any valid link. Please just send me the link.**
>
> 🕐 at 13/06/2019 18:49

Error test case with wrong input.

> https://www.eurosport.co.uk/
>
> 🕐 at 13/06/2019 18:51

> Here, the most interesting topics about the website:
> 1. league: 11.1 %
> 2. home: 7.2 %
> 3. results: 6.5 %
> 4. premier: 6.5 %
> 5. world: 6.5 %
> 6. final: 6.1 %
> 7. fixtures: 6.1 %
> 8. sports: 5.7 %
> 9. cup: 5.7 %
> 10. eurosport: 4.3 %
> 11. tour: 4.3 %
> 12. united: 4.3 %
> 13. women: 3.9 %
> 14. cycling: 3.6 %
> 15. championships: 3.2 %
> 16. news: 3.2 %
> 17. football: 3.2 %
> 18. tennis: 2.9 %
> 19. policy: 2.9 %

`                                                              ` **SEND**

Successful test case with good input.

3.2 Comments

This project allowed us to practice everything we learned in this course where the content is of high quality, it is a good exercise to understand web programming. This project also taught us how to work better in a team environment and how to deal with each other. For a first Natural Language Processing class, it was very interesting project. Thank you, professor.

Angular	https://angular.io/
NodeJS	https://nodejs.org/en/
Sequelize	http://docs.sequelizejs.com/

WAMP	http://www.wampserver.com/en/

[Teamwork evaluation report]

- Nguyen Kevin [50181575] → 5/5
- Oulladji Nabil [50187566] → 5/5

Good atmosphere and good communication, great team!