

Final Project

Chatbot and Recommendation Systems

A4 - S8

ESILV

Antoine PHISSAMAY
Theo PHILIPPE

Our movie guide Chatbot: 'MovieBot'

1. Presentation

Welcome to our movie guide 'MovieBot'.

For a chatbot, we choose to develop something inspired by the 2nd and 6th workshops with a recommendation system added. In fact, we used the movies.csv and ratings.csv files.

Our chatbot 'MovieBot' is a movie guide, as its name may say. In fact, it allows to discuss about film, and have several abilities concerning movie recommendation, but can also make a simple conversation.

Microsoft Windows [version 10.0.19041.804]
(c) 2020 Microsoft Corporation. Tous droits réservés.

C:\Users\theop\Desktop\FinalProject-Chatbot>node app.js
>hi
hi ! My name is MG, MG is for MovieGuide, how are you?
>fine and you ?

Very good, thank you !
how can I help you ?

C:\Windows\System32\cmd.exe - node app.js

You can ask me to advise you some movies You can ask me informations about a movie You can ask me the grades of the movie

Thank you
You are welcome, can I do something else for you ?
>_

MovieBot 2/7

2. Movie Research and Information

The chatbot can search and give information about a given movie. For example, lets make a research about the movie Wayne's World, which is declined in a saga of two movies. Furthermore, we will make the research using jus the name 'Wayne' and not the entire name, in order to show that the bot can find it despite of that.

```
>can you give me informations about the movies
Give me the title of the movie you want to know about gender
Wayne
I founded more than one movie containing the word: Wayne
for the film: Wayne's World (1992), the genders of the movies are:
Comedy
for the film: Wayne's World 2 (1993), the genders of the movies are:
Comedy
```

Now, we will search about the film 'Woman in Red', but we ask about its ratings.

C:\Windows\System32\cmd.exe - node app.js

```
Woman in Red
These are the genders of the movie : Woman in Red, The (1984)
Comedy
Romance
thank you
You are welcome, can I do something else for you ?
>can you give me the grades of the movie
Give me the title of the movie you want to know the grade
Woman in Red
I'm calculing the average for the movie: Woman in Red, The (1984)
the grades are :
2
3
2
2
the average is : 2.25 on 5
```

MovieBot 3/7

3. Movie Recommendation

The main ability of our chatbot is the movie recommendation. Two paths are possible to access movie recommendation. As a new user it is possible to have a recommendation based on your favorite movie genres. For a current user, your recommendation is based on what you like.

3.1. The registered User

```
>can you give me a movie
Are you a new user?
yes/no>
no
What is your user Id :
12
Loading of your 3 movies, please wait...
The best genre of user 12 are Mystery with a moyenne of 5 and Drama with a moyenne of 4.4375
Here is a list of Movie that you might like :
All Good Things (2010)
Sixth Sense, The (1999)
Gleaming the Cube (1989)
C:\Users\theop\Desktop\FinalProject-Chatbot>
_
```

3.2. The new User

```
>can you give me some movie
Are you a new user?
yes/no>
 yes
Can you please choose a first gender ? It will allow me to get to know you better :
1 : Thriller
2 : Adventure
3 : Animation
4 : Children
5 : Comedy
6 : Fantasy
7 : Romance
8 : Drama
9 : Action
10 : Crime
11 : Horreur
12 : Sci-Fi
13 : Mystery
14 : War
first>1
Thriller Can you please choose a second one ?
You choice are Thriller and Sci-Fi
Loading of your 3 movies, please wait...
Here is a list of Movie that you might like :
Next (2007)
Host, The (Gwoemul) (2006)
ARQ (2016)
```

MovieBot 4/7

4. Deployment

4.1. Creating a Webhook using Heroku

First we create a new app on Heroku, in order to deploy our project. We install Heroku and connect our local folder to the Heroku website using Git.

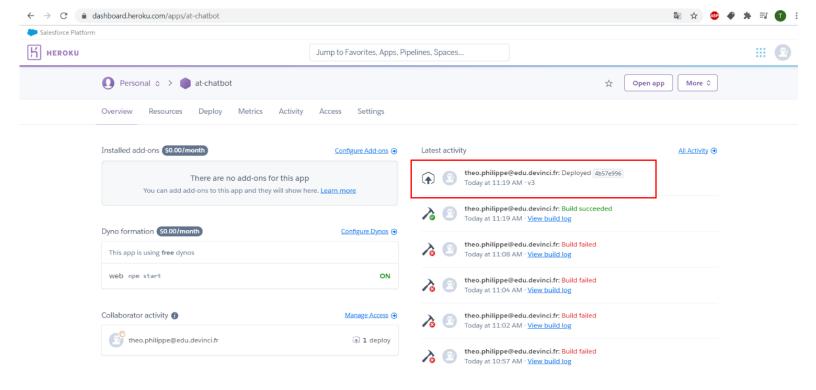
```
C:\Windows\System32\cmd.exe
                                                                                                                                  Microsoft Windows [version 10.0.19041.804]
(c) 2020 Microsoft Corporation. Tous droits réservés.
:\Users\theop\Desktop\FinalProject-Chatbot>heroku login
neroku: Press any key to open up the browser to login or <mark>q</mark> to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/bcef1e27-2a19-4679-a6f2-c21313b81154?requestor=SFMyNTY.g
gDbQAAAA04Ni4yMTguNjQuMTc4bgYAVtATc3gBYgABUYA.Mk_izXOA-UXWu71BXFZWNVw_5zHYPNKsIR811z7EM5s
ogging in... done
ogged in as theo.philippe@edu.devinci.fr
:\Users\theop\Desktop\FinalProject-Chatbot>git init
Reinitialized existing Git repository in C:/Users/theop/Desktop/FinalProject-Chatbot/.git/
:\Users\theop\Desktop\FinalProject-Chatbot>git add .
warning: LF will be replaced by CRLF in package.json.
The file will have its original line endings in your working directory
:\Users\theop\Desktop\FinalProject-Chatbot>git commit -m "first"
master c46146d] first
2 files changed, 37 insertions(+), 89 deletions(-)
rewrite matcher/index.js (78%)
rename package-lock.json => package.json (98%)
 :\Users\theop\Desktop\FinalProject-Chatbot>heroku git:remote -a at-chatbot
et git remote heroku to https://git.heroku.com/at-chatbot.git
 :\Users\theop\Desktop\FinalProject-Chatbot>
```

After a final '>> git push heroku master ', the app is deployed as we can see in Heroku, and we can get the webhook.

```
C:\Users\theop\Desktop\FinalProject-Chatbot>heroku_git:remote -a at-chatbot
set git remote heroku to https://git.heroku.com/at-chatbot.git
```

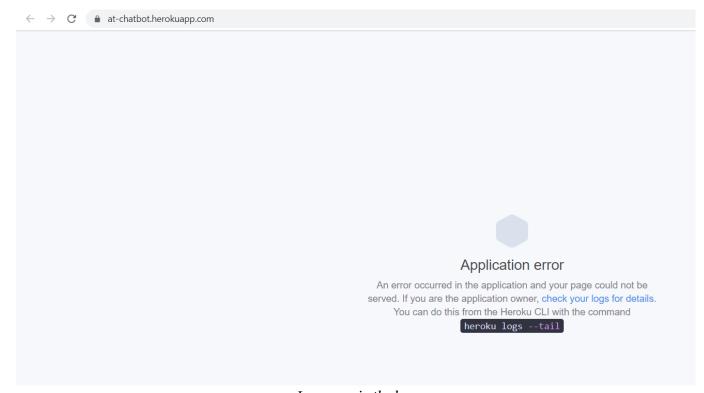
webhook

MovieBot 5/7



app deployed

Now troubles begin, because there are some logs problems I couldn't identify and Heroku did not give any hints, event in the Heroku CLI where the problem is not showed.



Log error in the browser

MovieBot 6/7

```
Invite de commandes - heroku logs --tail

2021-03-27T12:03:28.381860+00:00 heroku[web.1]: State changed from starting to crashed

2021-03-27T12:52:24.243353+00:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/" host=at-chatbot.herokonnect= service= status=503 bytes= protocol=https

2021-03-27T12:52:24.531618+00:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/favicon.ico" host=at-chatbot.herokonnect= service= status=503 bytes= protocol=https

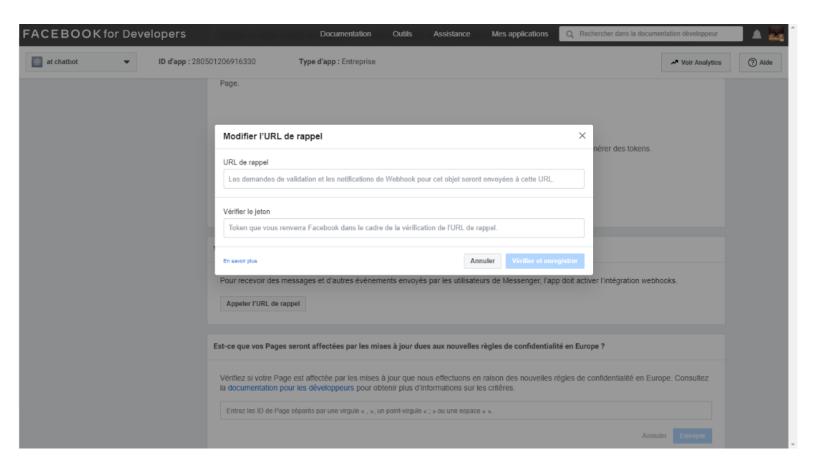
2021-03-27T12:53:17.018694+00:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/" host=at-chatbot.herokonnect= service= status=503 bytes= protocol=https

2021-03-27T12:53:17.270961+00:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/favicon.ico" host=at-chatbot.herokonnect= service= status=503 bytes= protocol=https
```

Code error 'H10' identify in the CLI which is not documented

4.2. Messenger deployment

Now we have to enter the webhook in Facebook Developper, but as our app doesn't work on the internet, we cannot render the webhook.



MovieBot 7/7