

Chatbot and recommendation system: final project MovieSearch bot

Introduction

MovieSearch is a chatbot available on [Discord](#) that will help you find movies and screening in movie theaters near you. Especially, he will assist you on tasks like:

- Finding information on a specific movie
- Finding screenings of a specific movie near you
- Finding the available screenings near you

He will also recommend you some movies, based on what is popular today and on which movie you want to see.

Based on **real-time data**, you will be able to easily find information you need and even book your tickets for your desired movie screening (if available of course).

How does it work?

Our bot uses an API to work, that's why we constantly have real-time and updated data. MovieSearch is based on a huge dataset, which is the Gaumont-Pathé API. Gaumont-Pathé is the biggest French movie theater company and so has recorded tons of data since its creation. All the existing movies are available through this API. By requesting this API, we are able to get all the information we need, in order to fulfill your desires in terms of movies.

This API offers us a lot of opportunities and diverse queries; however, it also has some limitations. For example, each movie has only one genre which clearly not enough to make a decent content-based recommendation system. Same problem for the actors and directors list which contains generally only few people. Some data are missing, but we still had to make a recommendation system.

Based on the API data, we made a simple recommendation system, that can recommend the user a movie when he is searching for a movie that is currently unavailable. The criteria used for the recommendation are the actors who played in the movie, the directors that directed it, the genre of the film, and the movie's likeability among other spectators.

This recommendation system can also give you recommendations based on the trending movies that are actually available in movie theaters.

How to use MovieSearch bot on discord?

The bot is running on a distinct server, and so you do not have to install anything, or run any script. All you have to do is to join the discord server here: <https://discord.gg/v8Dxvde9TE>
You can write all the queries you want on the #bot text channel.

Some scenarios for communicating with the bot

- If you know the name of the movie you want to watch in movie theaters, this is a use case you will probably do:

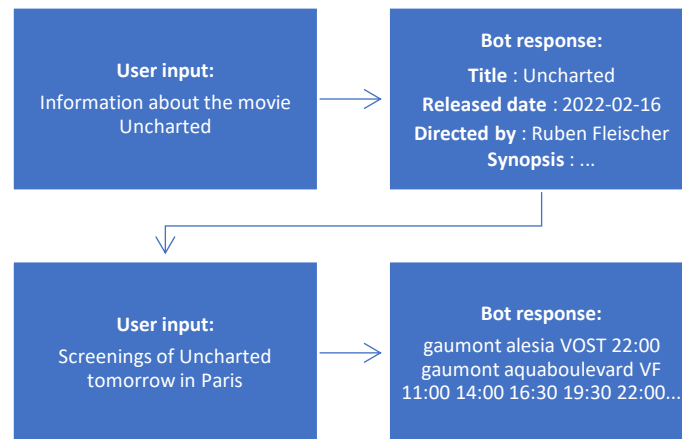


Figure 1 : Scenario 1

- If you are looking for a movie, based on its genre, you will probably be doing this:

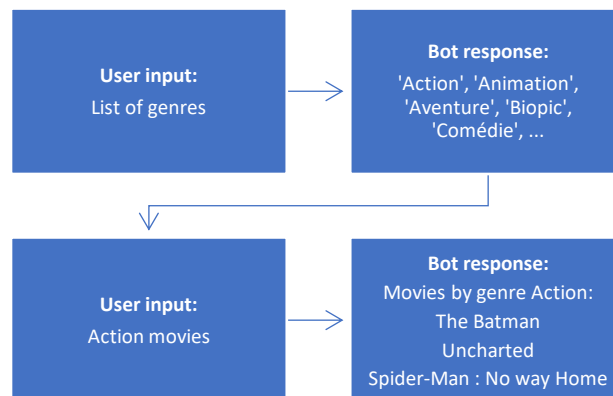


Figure 2 : Scenario 2

- If you are looking for a movie, based on its actor or director, you will probably be doing this:

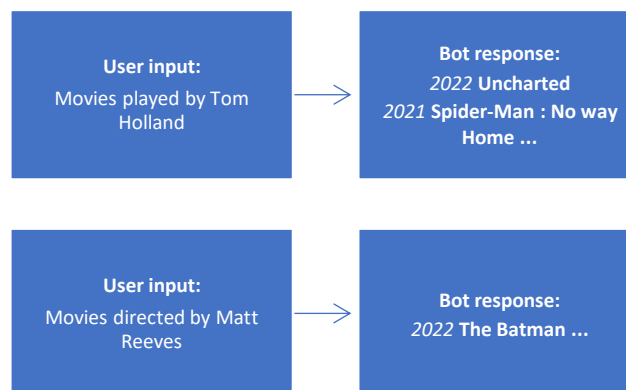


Figure 3 : Scenario 3

- If you are looking for all movies available near you, you will probably be doing this:

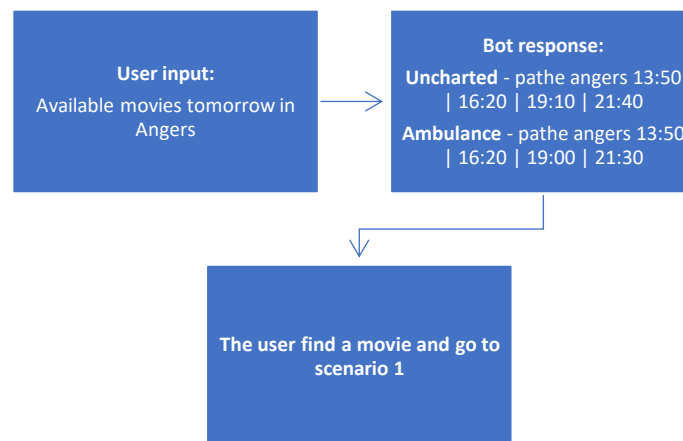


Figure 4 : Scenario 4

- If you are looking for all the screening available near you, you will probably be doing this:

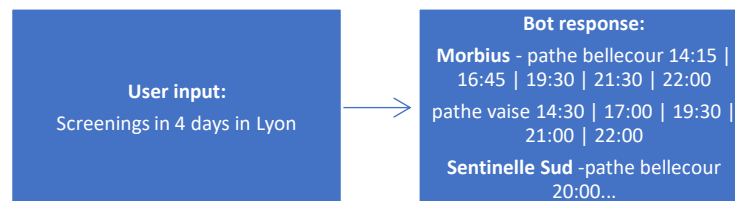


Figure 5 : Scenario 5

- If you are looking for trending movies, you will probably be doing this:

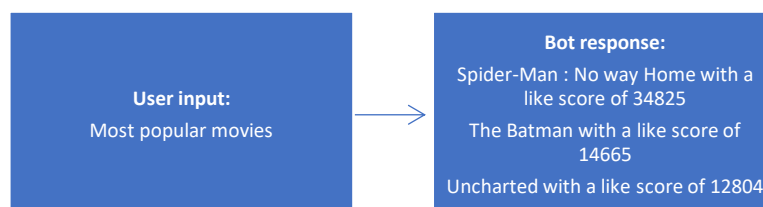


Figure 6 : Scenario 6

- If the movie is not available, you will be recommended by the bot:

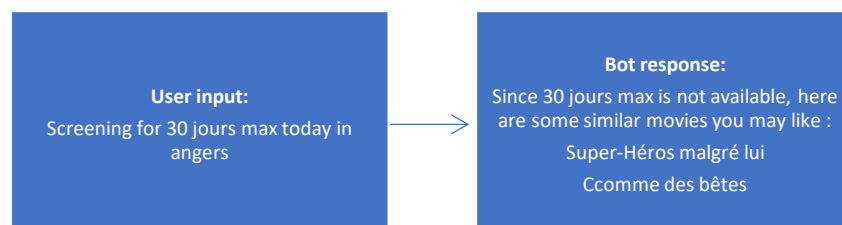


Figure 7 : Scenario 7

On the [MovieSearch GitHub repository](#), you can find some inputs that you can easily copy-paste.