

# Project Report

## 1-Introduction:

### 1.1-Overview:

Movie Ticketing Bot is a chat Bot that can help the user by responding to his questions. Mainly, this Bot could reserve tickets for the user.

### 1.2-Purpose:

Like every chatbot, Movie Ticketing Bot, facilitates the communication between the user( who want to watch a movie)and the cinema administration. it will reduce the number of people who are coming just to ask some simple questions. In fact, Movie Ticketing Bot will guarantee the comforts of both the user and the employee.

## 2-Literture Survey:

### 2.1-Existing problem:

a person has problem in:

- \*tickets'reservation
- \*information gathering (movies available-prices-offers..)
- \*Being busy(can't go to the cinema to ask his questions)

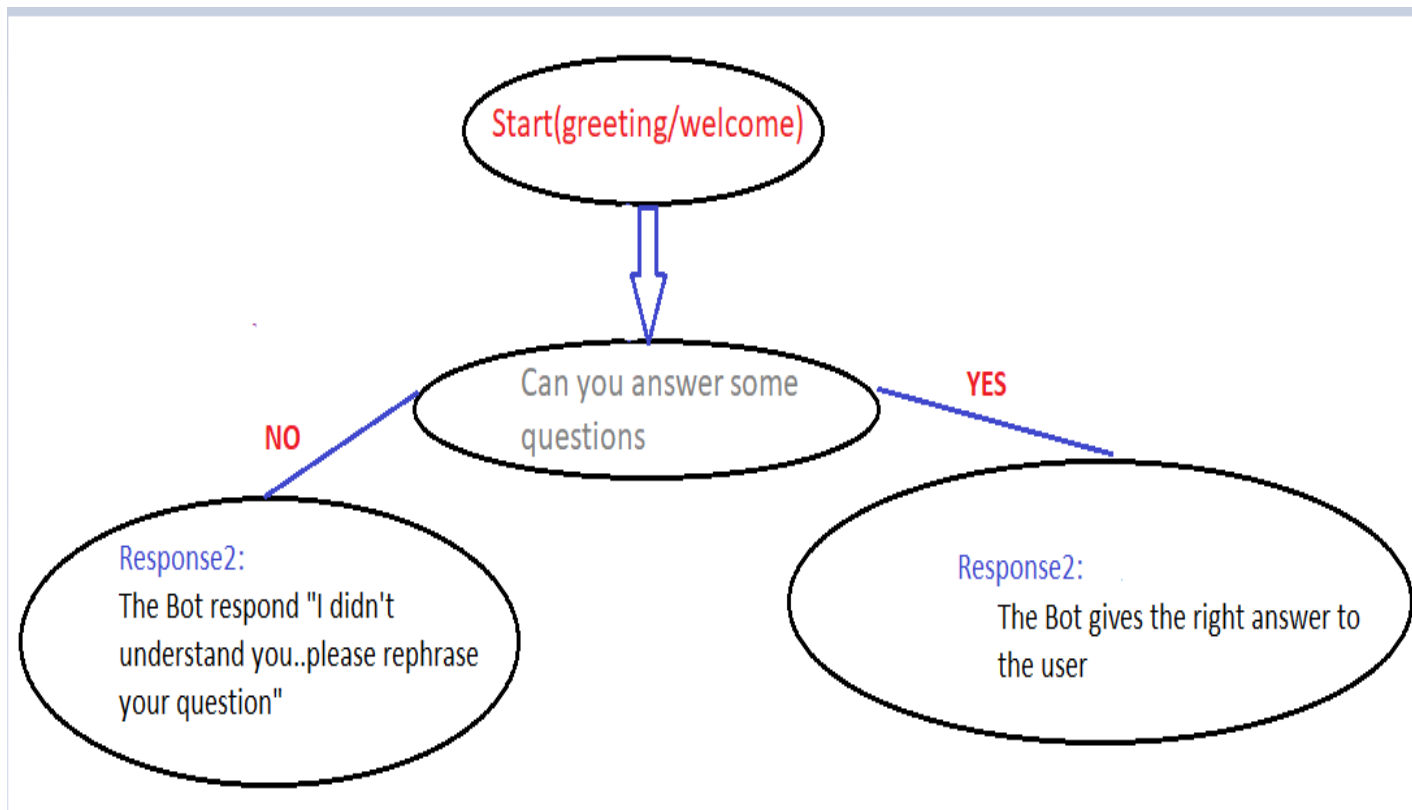
### 2.2-Proposed solution:

- \*a virtual bridge between the user and the cinema administration.
  - \*an interface where the user can ask his questions and **get responses**
- >a chatbot: a **Movie Ticketing Bot**

## 3-Theoritical analysis:

### 3.1-Block Diagram:

I painted A Digrammatic overview of the project using "Paint"



3.2-Hardware/Software designing:

#### 4-Experimental investigations:

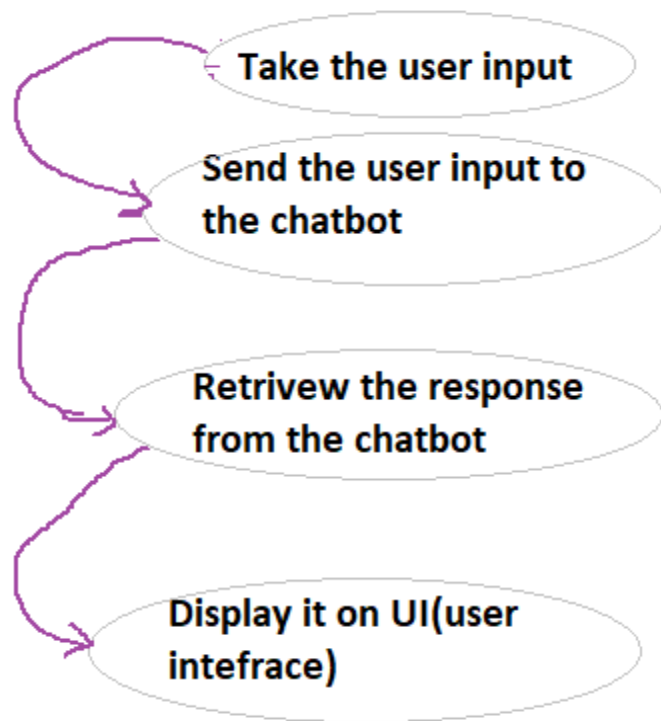
\*Movie Ticketing Bot needs a big amount of data(Movie names..prices..different discounts..)

\*Some data need to be regularly updated( new movies available..)

#### 5-FlowChart:

A flowchart is a diagram that depicts a process,system or computer algorithme.it is used in multiple fields mainly a chatbot.

below,a Flowchart that I created by "Paint"



## 6-Result:

Movie Ticketing Bot responds efficiently to the user sentences(greetings/questions..)

I tried to implement the different ways for the same word (for exemple good

Morning/gm...Bonjour/bjr...hey/hey..) so that the chatbot will be ready and trained to respond to any input.

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IBM Watson Assistant

Assistant preview

Hey there..I am the Movie Ticketing Bot..I can assist you today

bonjour

bonjournée Mr/Mm

good morning

good morning

gm

good morning

hi !

Type something...



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IBM Watson Assistant

Assistant preview

hi !

hi there

hello !!

hello how can I help you

good evening

good evening

good afternoon

Good afternoon..I hope you are having a nice day

Type something...



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**Assistant preview**

A screenshot of a chat interface. The chat history shows the following messages:

- User: bonsoir
- Assistant: bonsoir à vous
- User: bsr !
- Assistant: bonsoir à vous
- User: hey !!
- Assistant: heyy it's a pleasure to talk to you
- User: what are the movies for today ?

Below the chat history is a preview of a movie website. At the bottom, there is a text input field with the placeholder "Type something..." and a send button (a right-pointing triangle).

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**Assistant preview**

A screenshot of a chat interface. The chat history shows the following messages:

- Assistant: heyy it's a pleasure to talk to you
- User: what are the movies for today ?

Below the chat history is a preview of a movie website showing a grid of movie posters. Below the preview, the assistant responds:

we have these movies for you TODAY

Below this response is another user message:

what about offers? do you have any ?

Below that, the assistant responds:

yes we do! we have discounts,a HAPPY DAY

At the bottom, there is a text input field with the placeholder "Type something..." and a send button (a right-pointing triangle).

## Build your own assistant using IBM Watson Assistant

### Assistant preview

what about offers? do you have any?

yes we do! we have discounts,a HAPPY DAY where you can got a free ticket and more is waiting for you

any special movies to recommend?

please select one of the types below to know the top 2020 movie

fiction

fiction

Type something...

## Build your own assistant using IBM Watson Assistant

### Assistant preview

SuperIntelligence

something dramatic? My mum loves it

yes we do! here are our dramatic movies..hope they like you



something romantic??

Type something...

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IBM Watson Assistant

Assistant preview

something romantic??

ohh two lovers on the road!!



Type something...



Build your own assistant using  
IBM Watson Assistant

Assistant preview



okeeeeeey do u have any discounts?

if you are two lovers we have a 10% discount this week

if you are a group of friends more than five persons, who want to hang out and have fun, we have a 15% discount for you guys.

listen i wanna have a good day with my girl friend.. soomethng for valentine's day ?

For Valentin's day, we appreciate your noble feelings and we have a gift for you !! ONLY one

Type something...



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Assistant preview

For Valentin's day, we appreciate your noble feelings and we have a gift for you !! ONLY one ticket for two lovers but not for all movies. soooooooooo Here are the movies for which you both have one ticket.



Type something...



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Assistant preview



Type something...



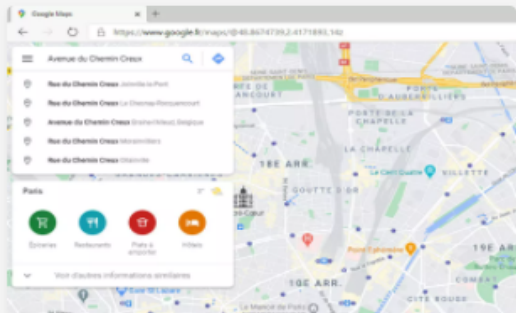


## Build your own assistant using IBM Watson Assistant

### Assistant preview

it's the first time i will go to the  
cinema..where it is exactly?  
could you tell me about it's  
location please?

yes with pleasure..it's near the hospital..oww  
you know what here is a screenshot for the  
location



Type something...



## Build your own assistant using IBM Watson Assistant

### Assistant preview



what about the prices?

For weekends price=10 US dollar

For valentine's day price=12 US dollar

For week days by night price=10 US dollar

Other price=9.6 US dollar

eeemmmm i see.. ok i wanna  
book tickets please

How do you want to pay? These are our  
available payment's mode : Bank Draft,  
Telegraphic Transfer, cash, card, UPI

Type something...



## Build your own assistant using IBM Watson Assistant

### Assistant preview

How do you want to pay? These are our  
available payment's mode : Bank Draft,  
Telegraphic Transfer, cash, card, UPI

card !

How many tickets you want to reserve?

2

what is the movie you want to watch?

Bridge To Terabithia if it's  
available !

which day do you want to watch the movie?

saturday

Type something...



Build your own assistant using  
**IBM Watson Assistant**

**Assistant preview**

which day do you want to watch the movie?

saturday

you reservation of 2 tickets for Bridge To  
Terabithia is placed on saturday ..please do  
payment through card

thank you

thank you

you are always welcomed..I'm very happy to  
help you !!

Type something...



SPS-8817-Movie Ticketing bot x Page de services IBM Watson x Node-RED : node-red-jeubk-202 x (118) Day 3 - Project Build-A-Th...

node-red-jeubk-2021-02-17.eu-gb.mybluemix.net/red/#flow/66cb5671.09da98

Node-RED

Flow 1

inject hello

debug

complete

catch

status

link in

link out

comment

function

switch

change

msg payload

assistant

form

function

function

Bot Response abc

debug

all nodes

```

array[1], input: object, output:
object, context: object ... }
18/02/2021, 22:05:13 node: 4e1be644.30b428
msg.payload: string[98]
"yes with pleasure..it's near the
hospital..omw you know what here is a
screenshot for the location"
18/02/2021, 22:05:29 node: f2f2649a.0d0d98
msg.payload: Object
{ intents: array[1], entities:
array[1], input: object, output:
object, context: object ... }
18/02/2021, 22:05:29 node: 4e1be644.30b428
msg.payload: string[31]
"For weekends price=10 US dollar"
18/02/2021, 22:05:46 node: f2f2649a.0d0d98
msg.payload: Object
{ intents: array[1], entities:
array[0], input: object, output:
object, context: object ... }
18/02/2021, 22:05:46 node: 4e1be644.30b428
msg.payload: string[95]
"you reservation of 4 tickets for
drive is placed on saturday
..please do payment through cash"

```

## Talk to your Bot

### MovieTicketingBot

Bot Response **hello how can I help you**

User Input\*  
hello

SUBMIT

CANCEL

## 7-Advantages and disadvantages:

- (+) Facilitate booking tickets**  
less administrative tasks
- (-) Need a continuous update**

## 8-Applications:

The Movie Ticketing Bot could be deployed in websites:platforms/mobile applications..or why not in a ROBOT

## 9-Conclusion:

The Movie Ticketing Bot actually worked as programmed and the screenshots,and JSON file have shown that.But,I think it should be improved to englobe all the user questions(mainly the key word).Even after deployment,it is necessary to regulate it constantly by adding the new informations.

## 10-Future Scope:

The enhancements that could be made in the future are :

- \*Maybe some voice response.
- \*Detection of the user emotions.
- \*Emojis included in the Bot responses.

## 11-Bibliography:

I used those websites to know more about some terms that i'm not familiar with such as FlowChart ( <https://blog.ubisend.com/optimise-chatbots/simple-chatbot-flowchart> ) and Block Diagram ( [smartdraw.com/block-diagram/](https://smartdraw.com/block-diagram/) )

**Thank you For your attention**