Mood Based Movie Recommender

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Problem Definition:

Many of us want to watch movies as our hobbies and most of time we end up not finding any movie that is fit with person’s vibe or mood.

This ends up ignoring a whole lot of movies that are good but did not get any recognition.

So, our project Mood Based Movie Recommender gives a solution to these problems, that suggests the user movie according to the mood that is given as input.

Functionalities:

The Website has different mood or emotion, connected to their respective databases,

These databases contain movies the user can watch.

As the user clicks on a mood or emotion, movies are suggested to the user,

And depending on the user’s choice, the site suggests movies in future use,

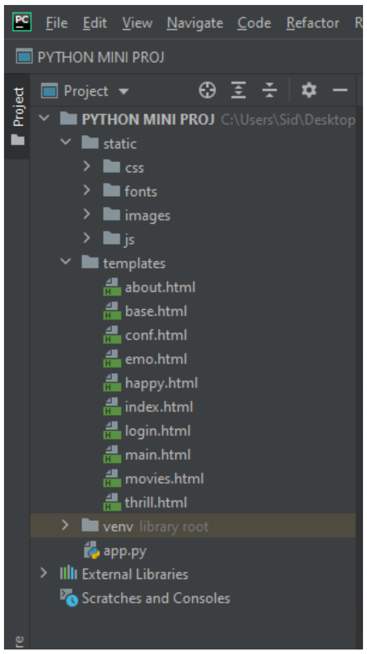
Database contains lots of movies,

IMPLEMENTATION:

Creating Web Pages and connect it to Flask Rendering

NOTE: Here is the final directory setup:

Fig 6: Directory setup



```
PYTHON MINI PROJ C:\Users\Sid\Desktop
  static
    css
    fonts
    images
    js
  templates
    about.html
    base.html
    conf.html
    emo.html
    happy.html
    index.html
    login.html
    main.html
    movies.html
    thrill.html
  venv library root
  app.py
External Libraries
Scratches and Consoles
```

The webpage needs to look very simple yet informative enough for everyone to understand. Also, I love to design good UI effects so that the user feels very good.

We provided good effects on the div and other CSS properties so that page looks great and very pleasant.

Now we have created the index.html web page, we need to connect it to the flask and render it when the link is initially opened. So let’s jump to the basics of the flask web application framework to render it for the user.

FOLDER INFORMATION:

static – it includes all the css,js and images that are static and cannot be changed while the code is executed the files get loaded statically.

Templates – this folder includes all the html files which have to rendered accordingly when the appropriate route has been called by the http response.

venv – it includes all the dependencies of the virtual environment which has been created for this particular project.

We use the following code in app.py to simply render the page we just created.

```
from flask import Flask, render_template, request, redirect

app = Flask(__name__)



@app.route('/')
def login():
   return render_template("login.html")



@app.route('/index.html')
def index():
   return render_template("index.html")
```

```
@app.route('/movies', methods=['POST', 'GET'])
def movies():
    return render_template("movies.html")


@app.route('/happy')
def happy():
    return render_template("happy.html")


@app.route('/emo')
def emo():
    return render_template("emo.html")


@app.route('/thrill')
def thrill():
    return render_template("thrill.html")


@app.route('/conf')
def conf():
    return render_template("conf.html")


@app.route('/about')
def about():
    return render_template("about.html")
```

Line 1: We import the Flask class then the request library to send HTTPS requests and finally we import render template to render our pages.

Line 4: we create an instance of this class. The first argument is the name of the application's module or package.

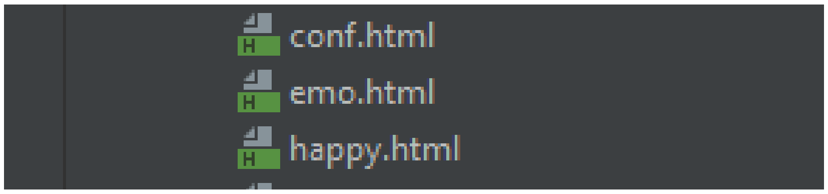
Line 5: We then use the **route()** decorator to tell Flask what URL should trigger our function. In this case, we use the/endpoint with the base URL.

We run the app after our app.py file is called directly in the terminal/command prompt. We set our port number to 5000 when running on *localhost* and we set debug=True to trace back any errors that occurs whilst running our application.

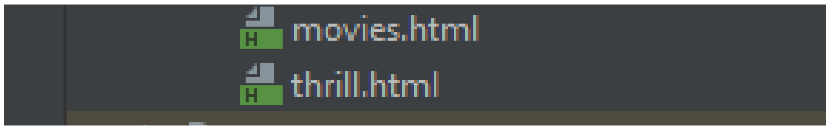
Let's carefully look into the other html files:

We have created different html files for different emotions which the user chooses as an option when the index.html file is rendered in the browser.

Each category is purely based upon the client's mood he chooses at that moment of time.



conf.html
emo.html
happy.html



movies.html
thrill.html

conf.html – it refers to movies which are appropriate to the client when he is feeling pretty confident.

emo.html -   it refers to movies which are appropriate to emotional mood.

happy.html- it refers to movies which are appropriate to happy emotion.

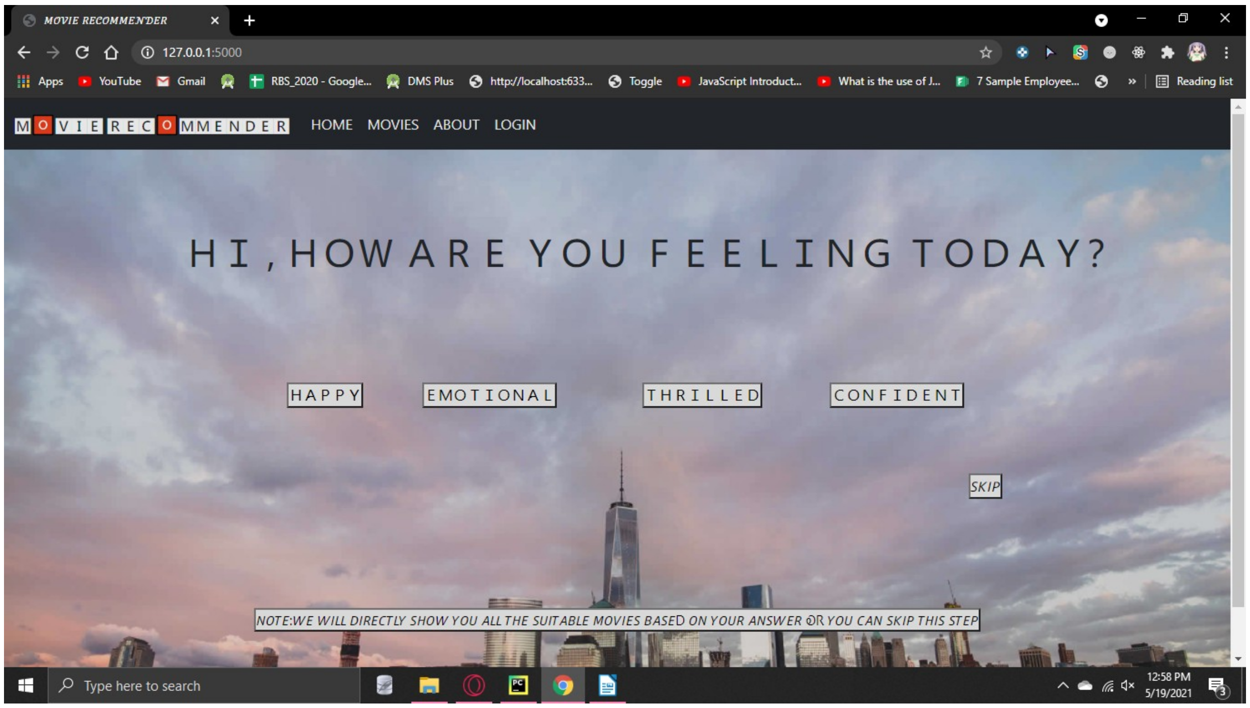
movies.html – it include all kinds of movies with good ratings.

thrill.html - it refers to movies which are appropriate to the client when he is feeling thrilled.

CODE:

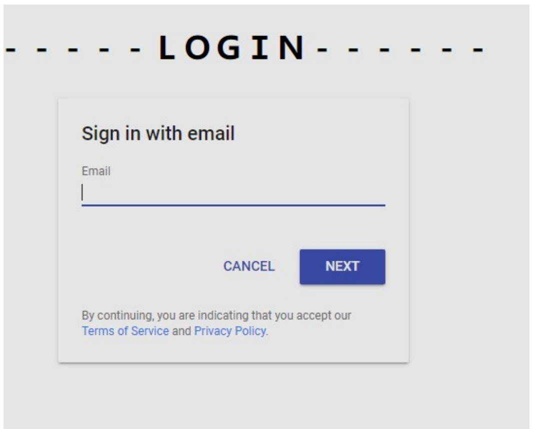
https://github.com/Sidtheasskicker/movie-recommender

SCREENSHOTS:

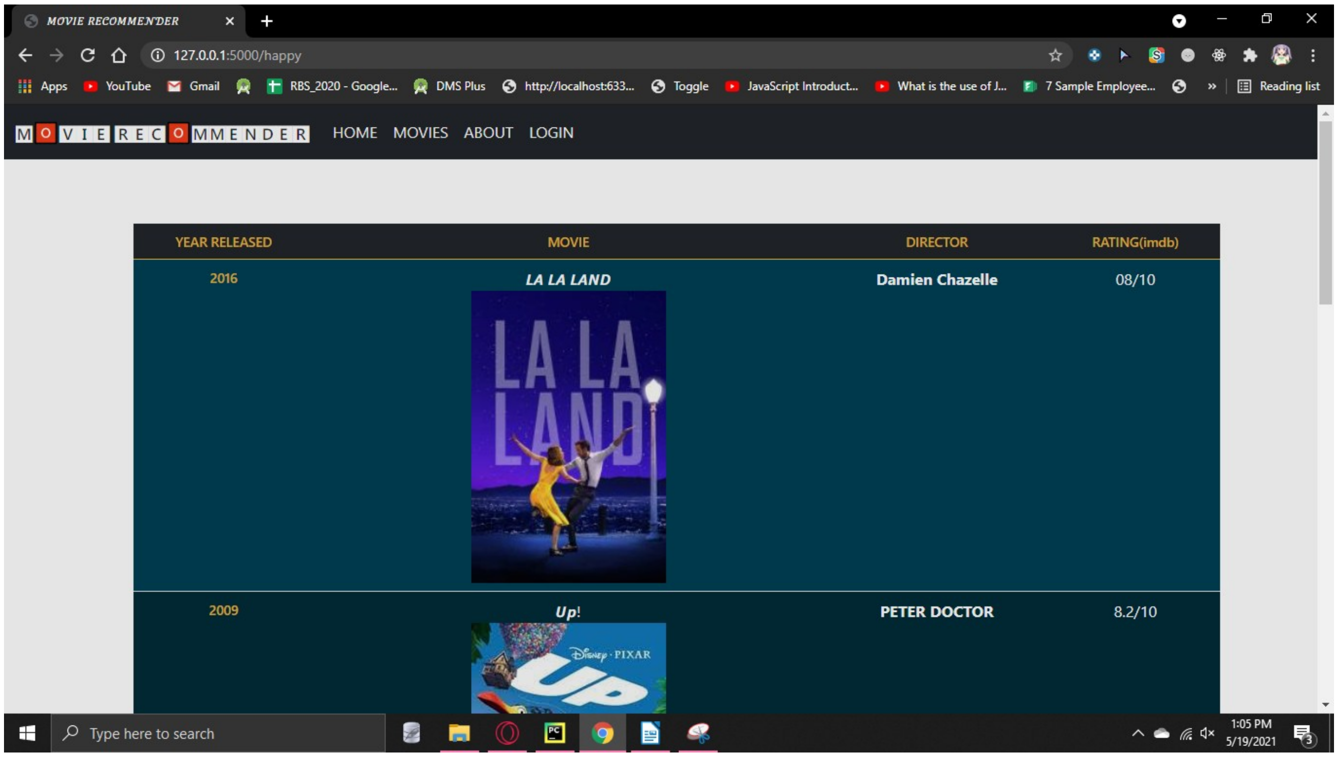


H I , HOW A R E YOU F E E L I N G T O D A Y ?

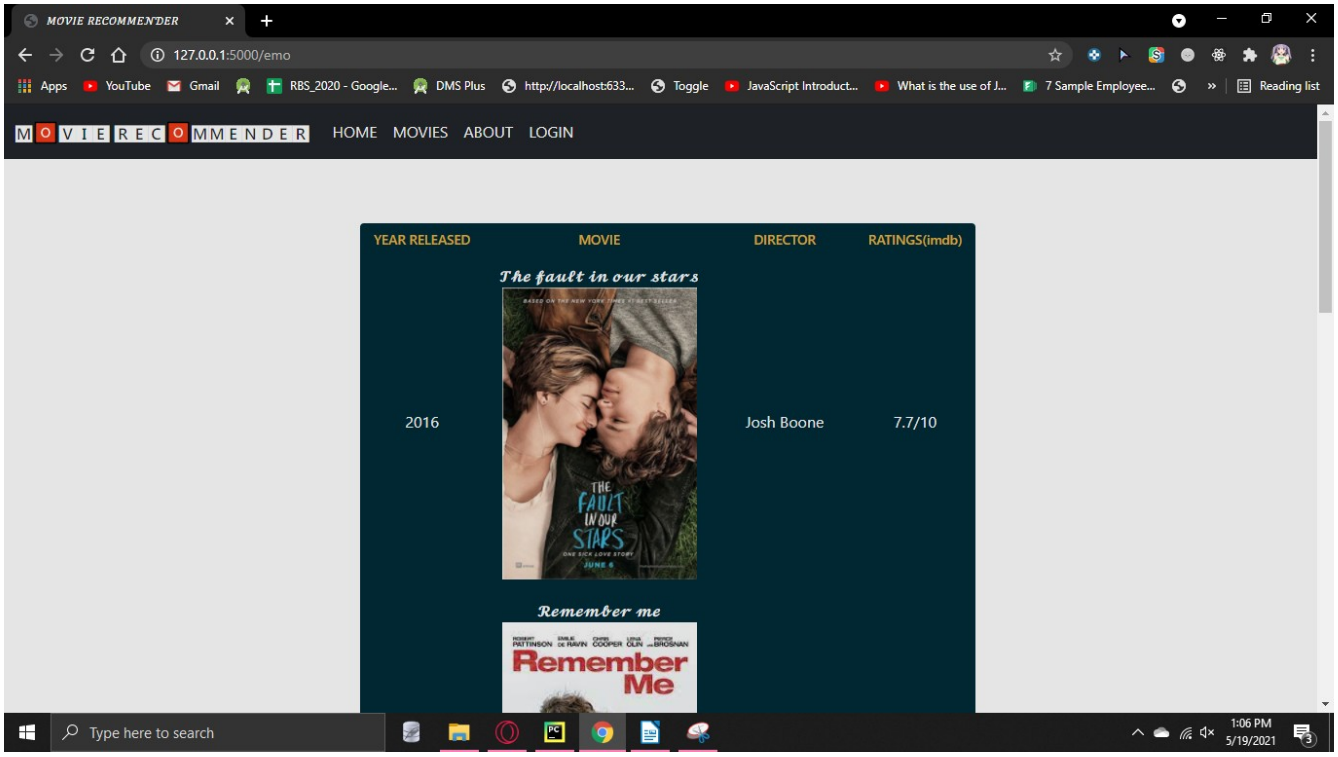
NOTE:WE WILL DIRECTLY SHOW YOU ALL THE SUITABLE MOVIES BASED ON YOUR ANSWER OR YOU CAN SKIP THIS STEP



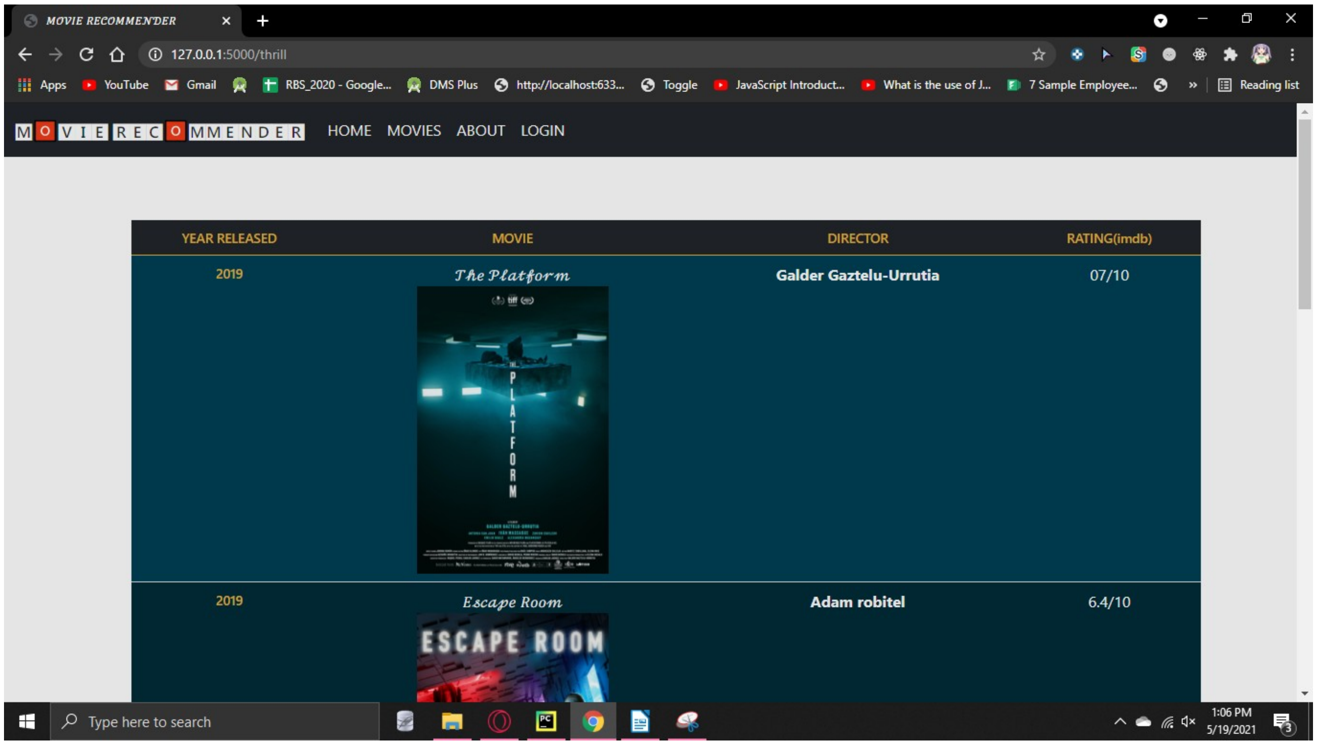
By continuing, you are indicating that you accept our Terms of Service and Privacy Policy.



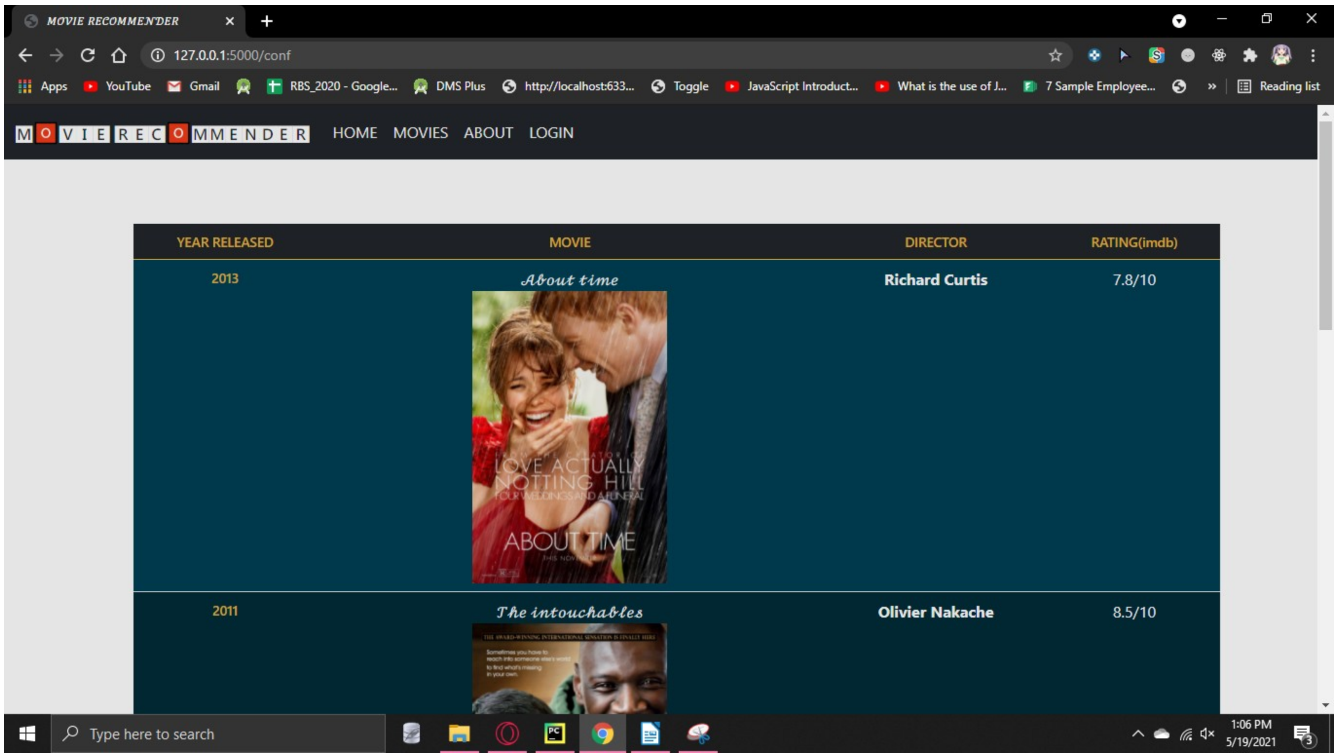
YEAR RELEASED	MOVIE	DIRECTOR	RATING(imdb)
2016	*LA LA LAND*	Damien Chazelle	08/10
2009	*Up!*	PETER DOCTOR	8.2/10



YEAR RELEASED	MOVIE	DIRECTOR	RATINGS(imdb)
2016	*The fault in our stars*	Josh Boone	7.7/10
	Remember me		

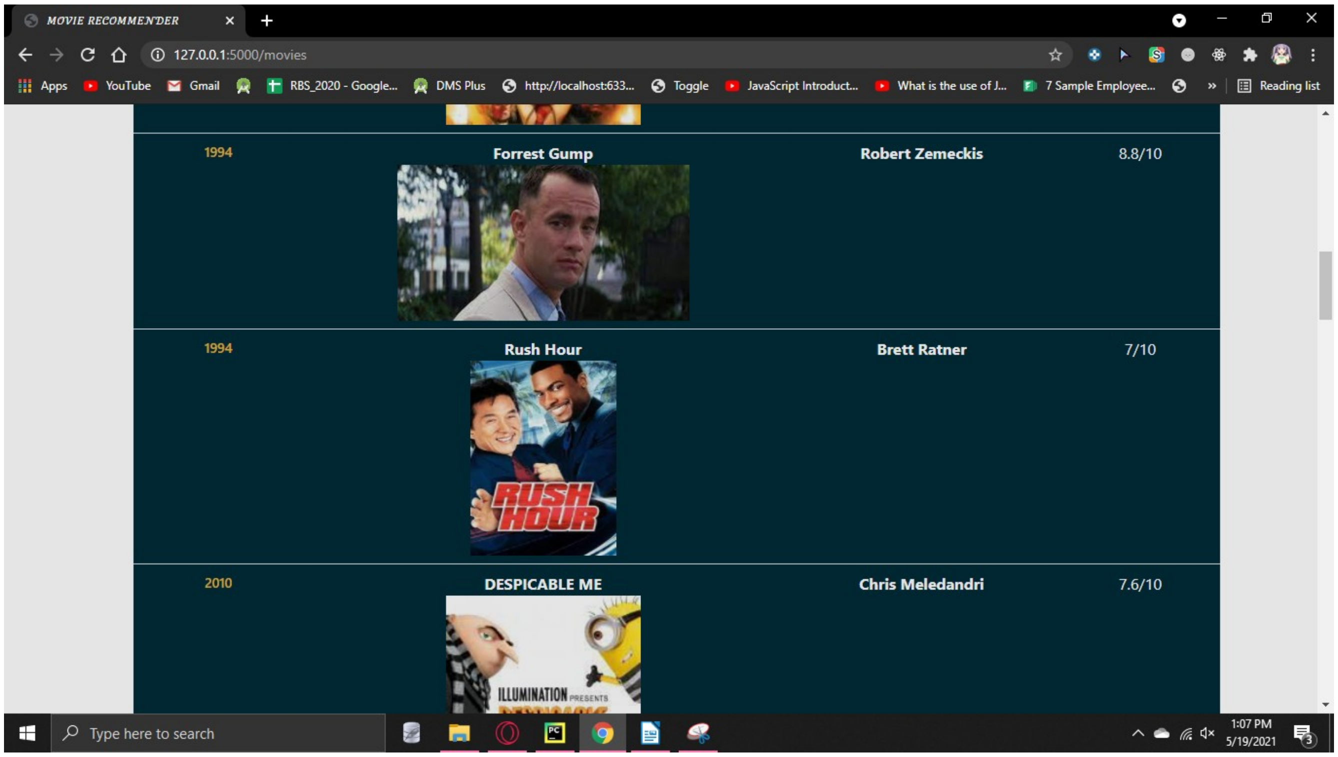


YEAR RELEASED	MOVIE	DIRECTOR	RATING(imdb)
2019	The Platform	Galder Gaztelu-Urrutia	07/10
2019	Escape Room	Adam robitel	6.4/10



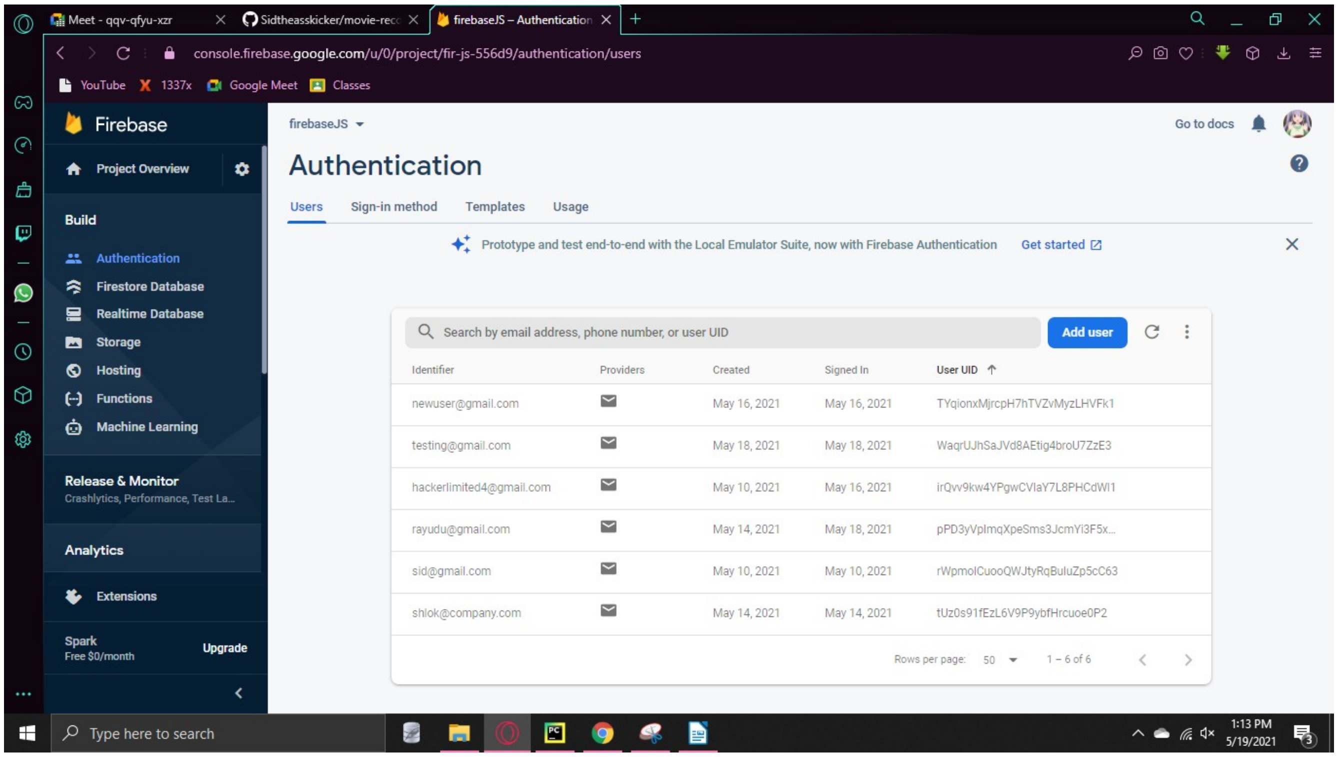
YEAR RELEASED	MOVIE	DIRECTOR	RATING(imdb)
2013	About time	Richard Curtis	7.8/10
2011	The intouchables	Olivier Nakache	8.5/10

ALL MOVIES TAB



1994	Forrest Gump	Robert Zemeckis	8.8/10
1994	Rush Hour	Brett Ratner	7/10
2010	DESPICABLE ME	Chris Meledandri	7.6/10

BACKEND:



console.firebase.google.com/u/0/project/fir-js-556d9/authentication/users

Authentication

Prototype and test end-to-end with the Local Emulator Suite, now with Firebase Authentication Get started

Search by email address, phone number, or user UID

Identifier	Providers	Created	Signed In	User UID ↑
newuser@gmail.com	✉	May 16, 2021	May 16, 2021	TYqionxMjrcpH7hTVZvMyzLHVFk1
testing@gmail.com	✉	May 18, 2021	May 18, 2021	WaqrUJhSaJVd8AEtig4broU7ZzE3
hackerlimited4@gmail.com	✉	May 10, 2021	May 16, 2021	irQvv9kw4YPgwCVlaY7L8PHCdWl1
rayudu@gmail.com	✉	May 14, 2021	May 18, 2021	pPD3yVplmqXpeSms3JcmYi3F5x...
sid@gmail.com	✉	May 10, 2021	May 10, 2021	rWpmolCuooQWJtyRqBuluZp5cC63
shlok@company.com	✉	May 14, 2021	May 14, 2021	tUz0s91fEzL6V9P9ybfHrcuoe0P2

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Conclusion:

By this project, we learnt different modes pf python and how it can be used in these types of project where user-based applications are made.

Flexibility is easily given in a project loke this using Python.

Future Scope:

Many streaming platforms like Netflix and amazon Prime are using this feature on a small scale by recommending user different movies, but recommending user as per mood or emotion can bring any platform more flexibility and user can get what they want just by giving their mood.