Projeto Final

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Tema

 API Rest com servidor em Python e front em html utilizando Banco de Dados relacional MySQL.







Motivação

 Pela possibilidade de utilizar o banco de dados para vários clientes acessarem ao mesmo tempo via protocolo HTTP, ou seja, utilizando um navegador.







Ferramentas usadas

- Python
- HTML
- Flask
- RESP
- SublimeText
- MySQL















Representação API









Exemplo flask

```
from flask import Flask

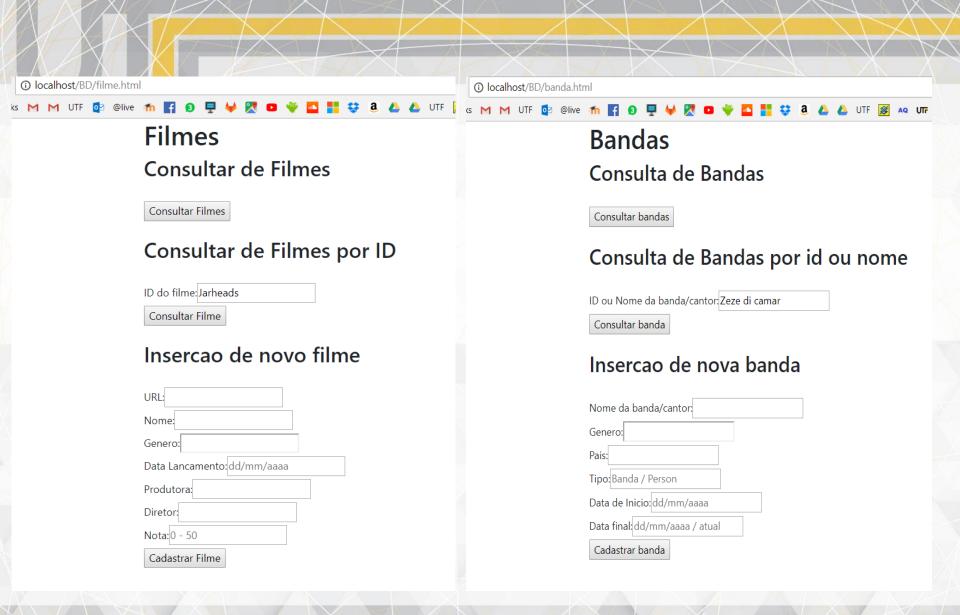
app = Flask(__name__)

@app.route("/")
def hello_world():
    return "Hello World! <strong>I am learning Flask</strong>"
app.run()
```















Consulta de Bandas por id ou nome

ID ou Nome da banda/cantor: Zeze di camarg

Consultar banda







10	Hallido Jalilloi	JC1 101111	Cidade Hao effectia add	I CI SOII	1330 00 20	Duriou auva
9	Higor Rocha	Serta	Cidade nao encontrada	Person	1994-10-24	Banda ativa
8	Jorge & Mateus	Serta	Brazil	Group		Banda ativa
7	Henriaue & Dieao	Serta	Brazil	Group		Banda ativa
6	Michel Teló	Serta	Brazil	Person	1981-01-21	Banda ativa
5	Zezé Di Camargo	Serta	Brazil	Person	1962-08-17	Banda ativa
4	Alex e Konrado	Serta	Brazil	Group		Banda ativa
3	Alex & Yvan	Serta	Brazil	Group		Banda ativa
2	Thábata	Serta	Brazil	Person		Banda ativa





```
@app.route('/insereBanda/', methods=['GET'])
def get_cadastro_banda():
    lock.acquire()
   bandaCantor = request.args.get('banda_cantor')
    genero = request.args.get('genero')
    pais = request.args.get('pais')
    tipo = request.args.get('tipo')
    dataIni = request.args.get('dataIni')
    dataFim = request.args.get('dataFim')
    print(bandaCantor)
    print(genero)
    print(pais)
    print(tipo)
    print(dataIni)
    print(dataFim)
        sql_insercao = "INSERT INTO musicas (nome,genero,pais,tipo,data_begin,date_end) VALUES ('%s','%s','%s','%s','%s','%s')" % (bandaCantor,
        cursor.execute(sql insercao)
        dw.commit()
        lock.release()
       return "Banda cadastrada com sucesso :)"
        lock.release()
        return "Erro na insercao da banda :("
```





PS C:\Users\Willdoliver\Desktop\2018.1\BD\db201801\07- Análise e Data Mining>p ython .\server.py
 * Serving Flask app "server" (lazy loading) * Environment: production WARNING: Do not use the development server in a production environment. Use a production WSGI server instead. * Debug mode: on

* Restarting with stat

* Debugger is active!

* Debugger PIN: 200-805-023

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)





```
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127.0.0.1 - - [25/Jun/2018 14:20:51] "GET /bandas?consultar_bandas=Consultar+b

andas HTTP/1.1" 200 -
  Beatles
  Rock
  United States
  Banda
  01/02/1978
  Banda ativa
 127.0.0.1 - - [25/Jun/2018 14:22:27] "GET /insereBanda/?banda_cantor=Beatles&g
enero=Rock&pais=United+States&tipo=Banda&dataIni=01%2F02%2F1978&dataFim=Banda+
  ativa&cadastrar_banda=Cadastrar+banda HTTP/1.1" 200 -
  Busca por ID
 127.0.0.1 - - [25/Jun/2018 14:26:08] "GET /bandas/?id_banda_cantor=11&consulta
r_banda=Consultar+banda HTTP/1.1" 200 -
  Busca por TEXTO
(10, u'Adel Tawil')
(10, u'Alex & Yvan')
(11, u'Alex e Konrado')
(12, u'Andy Roberts')
(17, u'Ashley Alexandra Dupr\xe9')
(12, u'Baby D')
(11, u'banda nossa2')
(12, u'Betles')
(11, u'Beefore Trees')
(13, u'Billy Steinberg')
(12, u'Blumio')
(12, u'Boat')
(13, u'Carlos Sadness')
(14, u'Casseurs Flowters')
(12, u'Chefket')
  (11, u'Alex e Konrado')
   (12, u'Chefket')
   (13, u'Con Funk Shun')
  (11, u'Corrigan')
(13, u'CR7Z')
(13, u'CYCloMusic')
(9, u'Dave Miller')
  (14, u'David Archuleta')
(10, u'Dean Ray')
(16, u'Dem Franchize Boyz')
```





