

API EN FASTAPI (Python)

```
1  import mysql.connector
2  from fastapi import FastAPI
3  from pydantic import BaseModel
4
5  app = FastAPI()
6  # uvicorn main:app --reload
7
8  config = {
9      'user': 'elmoco13',
10     'password': 'elmoco13',
11     'host': '34.134.48.99',
12     'database': 'sopestarea2',
13     'raise_on_warnings': True,
14 }
15
16 class Item(BaseModel):
17     name: str
18     gender: str
19     multiplayer: int
20
21
22 cnx = mysql.connector.connect(**config)
23
24 @app.post("/add")
25 async def create_games(item: Item):
26     insert_sql = f"INSERT INTO games(name, gender, multiplayer) VALUES ('{item.name}', '{item.gender}', {item.multiplayer})"
27     # insert_sql = f"INSERT INTO games(name, gender, multiplayer) VALUES ('Doom', 'Shooter', 2) "
28     cursor = cnx.cursor()
29     cursor.execute(insert_sql)
30     inserts = cursor.fetchall()
31     cursor.close()
32     cnx.commit()
33     return {"item": inserts}
```

Archivo LOCUST

```

6  import json
7  from random import randrange
8  from locust import HttpUser, task, between
9
10 class readFile():
11     def __init__(self):
12         self.data = []
13
14     def getData(self):
15         size = len(self.data)
16         if size > 0:
17             index = randrange(0, size - 1) if size > 1 else 0
18             return self.data.pop(index)
19
20     def loadFile(self):
21         print("LOADING .....")
22         try:
23             with open("MOCK_DATA.json", "r") as file:
24                 self.data = json.loads(file.read())
25         except Exception:
26             print(f'Error : {Exception}')
27
28 class ExampleTest(HttpUser):
29
30     wait_time = between(0.1, 0.9)
31     reader = readFile()
32     reader.loadFile()
33
34     def on_start(self):
35         print("On Start")
36
37     @task
38     def index(self):
39         data = self.reader.getData()
40         headers = {'Content-Type': 'application/json'}
41         if data is not None:
42             res = self.client.post("/add", headers=headers, data=json.dumps(data))
43
44         else:
45             print("Empty")
46             self.stop(True)

```

Archivo de Datos

```
MOCK_DATA.json > {} 8 > # multiplayer
1 [{"name":"Adele","gender":"Bartram","multiplayer":1},
2 {"name":"Sarine","gender":"Ludovico","multiplayer":2},
3 {"name":"Chiquita","gender":"Upton","multiplayer":3},
4 {"name":"Thibaut","gender":"Karlik","multiplayer":4},
5 {"name":"Conn","gender":"Haze","multiplayer":5},
6 {"name":"Xylina","gender":"Mersey","multiplayer":6},
7 {"name":"Lorie","gender":"Ricca","multiplayer":7},
8 {"name":"Mimi","gender":"Niels","multiplayer":8},
9 {"name":"Bealle","gender":"Hildagarde","multiplayer":9},
10 {"name":"Valle","gender":"Clara","multiplayer":10},
11 {"name":"Sofie","gender":"Rosalinde","multiplayer":11},
12 {"name":"Guenevere","gender":"Lothaire","multiplayer":12},
13 {"name":"Germain","gender":"Alexis","multiplayer":13},
14 {"name":"Theodora","gender":"Waldemar","multiplayer":14},
15 {"name":"Reuven","gender":"Herminia","multiplayer":15},
16 {"name":"Bethena","gender":"Montague","multiplayer":16},
17 {"name":"Basil","gender":"Megan","multiplayer":17},
18 {"name":"Marybelle","gender":"Babbette","multiplayer":18},
19 {"name":"Onfre","gender":"Cass","multiplayer":19},
20 {"name":"Brewer","gender":"Sukey","multiplayer":20},
21 {"name":"Jenifer","gender":"Mikaela","multiplayer":21},
22 {"name":"Rania","gender":"Annora","multiplayer":22},
23 {"name":"Lavena","gender":"Pattin","multiplayer":23},
24 {"name":"Aubrey","gender":"Dorrie","multiplayer":24},
25 {"name":"Meir","gender":"Bobbie","multiplayer":25},
26 {"name":"Georgeanne","gender":"Sander","multiplayer":26},
27 {"name":"Kimberli","gender":"Miof mela","multiplayer":27},
28 {"name":"Carter","gender":"Asia","multiplayer":28},
29 {"name":"Elberta","gender":"Crystie","multiplayer":29},
30 {"name":"Peggie","gender":"Ebony","multiplayer":30},
31 {"name":"Bryn","gender":"Edyth","multiplayer":31},
32 {"name":"Angele","gender":"Wanids","multiplayer":32},
33 {"name":"Woodie","gender":"Nara","multiplayer":33},
34 {"name":"Clari","gender":"Dorisa","multiplayer":34},
35 {"name":"Skippie","gender":"Gary","multiplayer":35},
36 {"name":"Katerina","gender":"Dwight","multiplayer":36},
37 {"name":"Francois","gender":"Veda","multiplayer":37},
38 {"name":"Forbes","gender":"Farlay","multiplayer":38},
39 {"name":"Erik","gender":"Cynthia","multiplayer":39},
40 {"name":"Cicely","gender":"Willey","multiplayer":40},
41 {"name":"Jerrilee","gender":"June","multiplayer":41},
42 {"name":"Stacee","gender":"Giulia","multiplayer":42},
43 {"name":"Eveleen","gender":"Salvador","multiplayer":43},
44 {"name":"Eadie","gender":"Jordan","multiplayer":44},
45 {"name":"Fawnia","gender":"Barbie","multiplayer":45},
46 {"name":"Felize","gender":"Salomo","multiplayer":46},
47 {"name":"Fields","gender":"Roley","multiplayer":47},
48 {"name":"Loren","gender":"Gigi","multiplayer":48},
49 {"name":"Bobbie","gender":"Dorisa","multiplayer":49},
50 {"name":"Bobbie","gender":"Dorisa","multiplayer":50}
```

Instancia de la Base de Datos

<input type="checkbox"/>	<input type="radio"/>	bdsopes1	MySQL 8.0	35.224.228.181
<input type="checkbox"/>	<input checked="" type="radio"/>	sopesgeneral	MySQL 8.0	34.134.48.99
<input type="checkbox"/>	<input type="radio"/>	sopesprac2	MySQL 8.0	35.232.219.31

Ver todas las instancias / sopesgeneral

☒ **sopesgeneral**

MySQL 8.0

[+ CREAR BASE DE DATOS](#)

Nombre ↑	Intercalación	Grupo de caracteres	Tipo	
information_schema	utf8_general_ci	utf8	Sistema	⋮
mysql	utf8_general_ci	utf8	Sistema	⋮
performance_schema	utf8mb4_0900_ai_ci	utf8mb4	Sistema	⋮
sopestarea2	utf8_general_ci	utf8	Usuario	⋮
sys	utf8mb4_0900_ai_ci	utf8mb4	Sistema	⋮

Captura de request en Locust

Type	Name	# Requests	# Fails	Median (ms)	90%ile (ms)
POST	/add	5	0	290	2300
	Aggregated	5	0	290	2300

Captura de los datos ingresados a la base de datos

SELECT * FROM games Enter a SQL expression to filter results (use Ctrl+Space)					
	123 id	ABC name	ABC gender	123 multiplayer	
1	22	Ros	Maisey	848	
2	23	Ethelyn	Carrissa	696	
3	24	Juieta	Lilly	115	
4	25	Ulises	Tybi	683	
5	26	Saloma	Misha	125	
6	27	Nananne	Saloma	394	

```

INFO:      Application startup complete.
IMPRIMEINDO OBJETO NAME: Ros
IMPRIMEINDO OBJETO GENDER: Maisey
IMPRIMEINDO OBJETO MULTI: 848
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Ethelyn
IMPRIMEINDO OBJETO GENDER: Carrissa
IMPRIMEINDO OBJETO MULTI: 696
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Juieta
IMPRIMEINDO OBJETO GENDER: Lilly
IMPRIMEINDO OBJETO MULTI: 115
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Ulises
IMPRIMEINDO OBJETO GENDER: Tybi
IMPRIMEINDO OBJETO MULTI: 683
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Saloma
IMPRIMEINDO OBJETO GENDER: Misha
IMPRIMEINDO OBJETO MULTI: 125
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
IMPRIMEINDO OBJETO NAME: Nananne
IMPRIMEINDO OBJETO GENDER: Saloma
IMPRIMEINDO OBJETO MULTI: 394
INFO:      127.0.0.1:59147 - "POST /add HTTP/1.1" 200 OK
WARNING: WatchFiles detected changes in 'main.py'. Reloading...
INFO:      Started server process [8348]

```