Centrale
CASABLANCA

Modern NLP

Based on Deep Learning and Language models.
Day 2 Afternoon

Alexandre Gazagnes

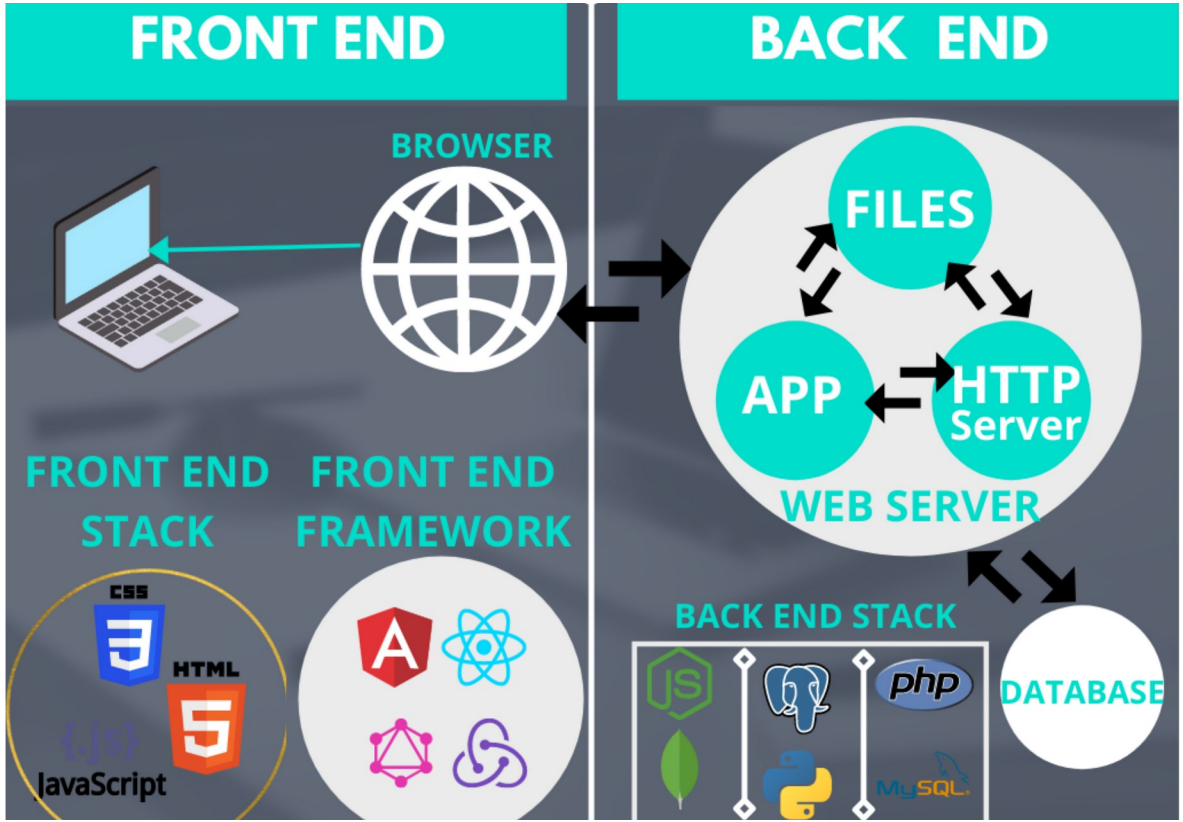
2nd Day

1. Morning (~ 2h)
    - Smallest remainder of Day 1
    - King – Man + Woman
    - Using advanced embedding techniques

2. Afternoon (~ 4h)
    - Gentle introduction to delivery API + front End
    - Transfert learning
    - Fine Tuning

First … Let’s Talk !

Back vs Front ?



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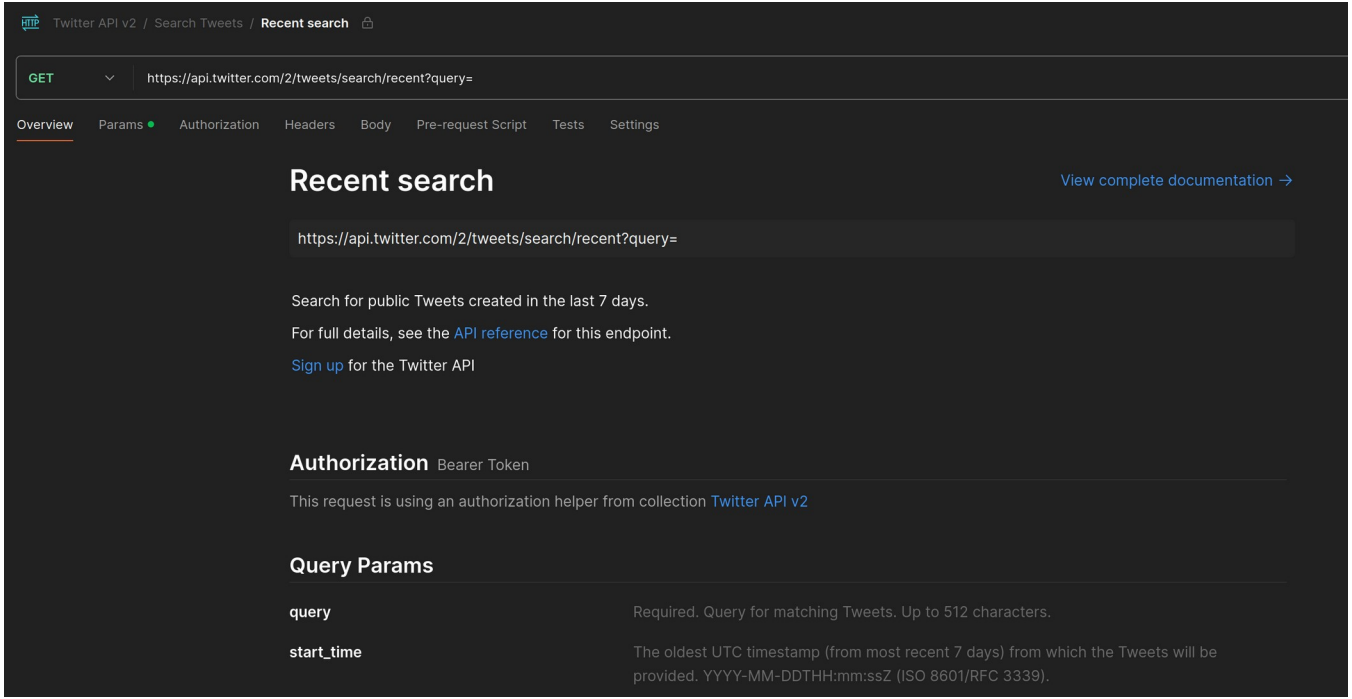
What is Back-End / API ?



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Fast API

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Create it

- Create a file `main.py` with:

```python
from typing import Union

from fastapi import FastAPI

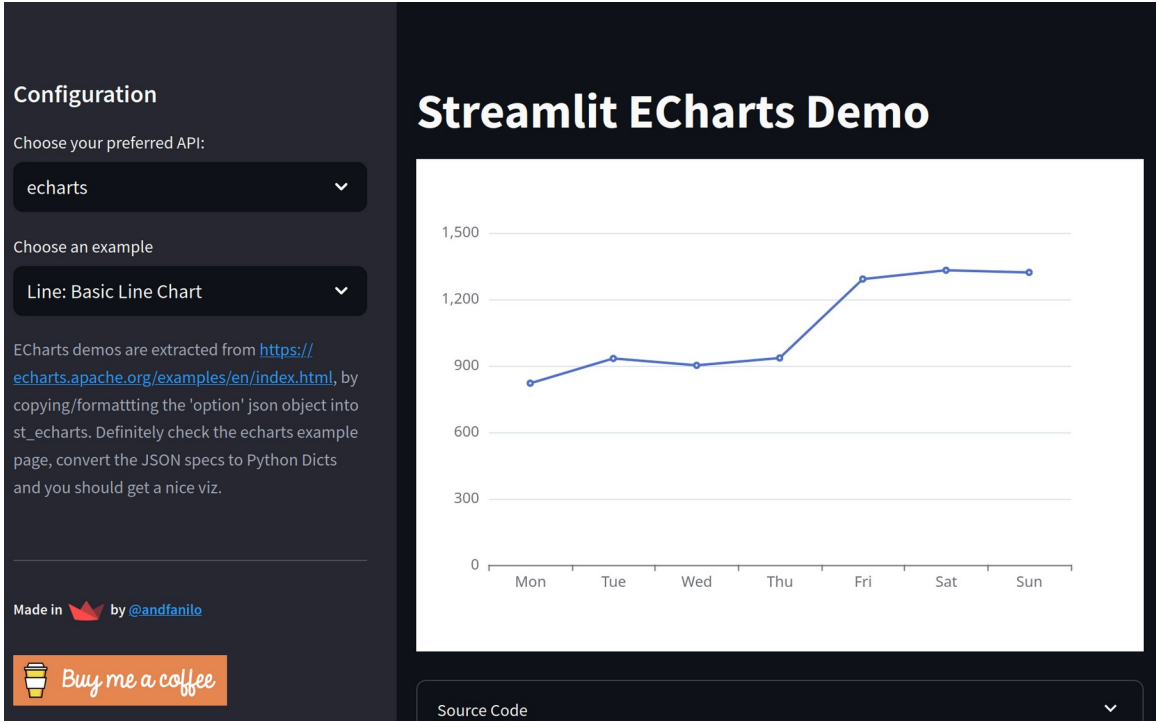
app = FastAPI()


@app.get("/")
def read_root():
    return {"Hello": "World"}


@app.get("/items/{item_id}")
def read_item(item_id: int, q: Union[str, None] = None):
    return {"item_id": item_id, "q": q}
```

Or use `async def`...

What is Front End



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Streamlit

```
import streamlit as st
import pandas as pd
import numpy as np
```

3. Every good app has a title, so let's add one:

```
st.title('Uber pickups in NYC')
```

4. Now it's time to run Streamlit from the command line:

```
streamlit run uber_pickups.py
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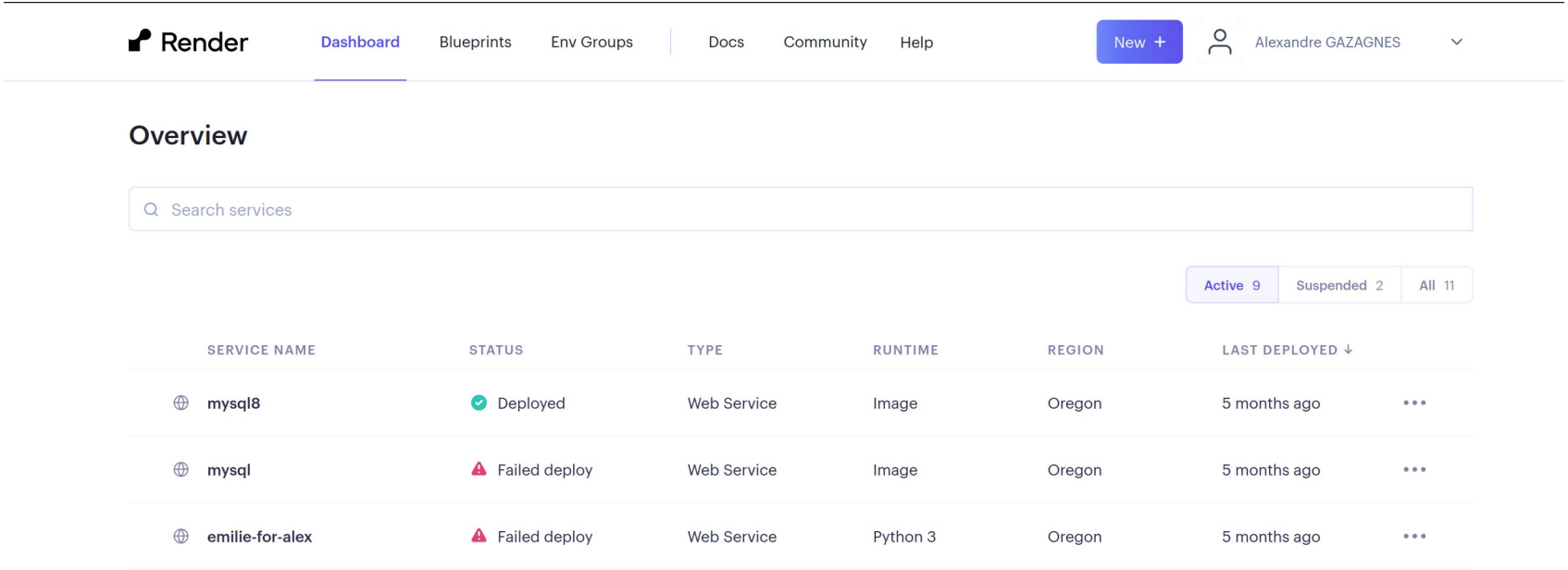
Production Back



Production Front

Practice !

(FreeStyle ;))