

Task: Building an API

Predicting a job title from a dictionary

This task requires you to build a local web server that has the ability to predict an arbitrary job title (*dirty job title*) parameter `q`, and return a list of predicted job titles (*clean job title*) in a JSON response.

Task 1:

Construct a function that predict a string that most closely matches the dictionary

Task 2:

Use a a light web framework of your choice, build an local server with endpoint of `/recommend_job_titles` to send request (no authentication required), process the input text with the function you created in Task 1, and return the result response in JSON format.

Include a README.md in your repository with instruction to launch/setup, migrate/seed a database (if necessary). Provide unit test case if available.

File attached:

- clean_job_titles.md (Dictionary)

Duration:

- 3 days

Example 1:

Method: GET

`http://localhost:<port_number>/recommend_job_titles?
q=dat+scientist&format=JSON`

Response:

```
{
  "input": "dat scientist",
  "result": [
    "Data Scientist"
  ]
}
```

Example 2:

```
http://localhost:<port_number>/recommend_job_titles?q=Executive,  
+Promotions+%26+Events+(Marketing+Communications)&format=JSON
```

Response:

```
{  
  "input": "Executive, Promotions & Events (Marketing Communications)",  
  "result": [  
    "Marketing Communications Executive",  
    "Events Executive"  
  ]  
}
```

Example 3:

```
http://localhost:<port_number>/recommend_job_titles?q=Analyst,  
+Global+Investment+Banking&format=JSON
```

Response:

```
{  
  "input": "Analyst, Global Investment Banking",  
  "result": [  
    "Investment Banking Analyst"  
  ]  
}
```