01a onet

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1 Load Data from O*NET

1.1 Content

- 1. Call API to get all Jobs
- 2. get details for each job
- 3. save to db

```
[6]: # imports
import requests
from requests.auth import HTTPBasicAuth
import json
from db import get_database
```

Call API to get all Jobs

```
[7]: # import authentication data
with open('./infos.json') as f:
    infos = json.load(f)
    onet = infos['onet']
    onetUsername = onet['username']
    onetPassword = onet['password']
```

```
[8]: # get all available jobs from onet
    occupationsUrl = "https://services.onetcenter.org/ws/online/occupations/"
    headers = {'Accept': 'application/json'}
    initialRequest = requests.get(occupationsUrl, auth=HTTPBasicAuth(onetUsername, onetPassword), headers=headers)

if initialRequest.status_code == 200:
    data = initialRequest.json()
    # the initial request only returns 20 jobs, so we need to make another orequest to get all the jobs.
    # the initial request includes the total of available jobs
    total = data['total']
else:
    print(f"Request failed with status code {initialRequest.status_code}")

# get all jobs
```

Get details for each Job

Save to DB

```
[10]: # save the data to the database
    dbname = get_database()

collection_name = dbname["onet"]

# Convert summaries to a list of dictionaries
    summaries_dict = [summary for summary in summaries]

# Insert the dictionaries into the MongoDB collection
    collection_name.insert_many(summaries_dict)

print("total jobs: ", len(summaries_dict))
```

total jobs: 1016