



Test Automation

Experiment 4 + 5

FastAPI

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Step 1: Activate environment:

```
alpha@Akhands-MacBook-Pro ~ % conda activate base
(base) alpha@Akhands-MacBook-Pro ~ %
```

Step 2: Install FastAPI in activated environment

Command : `conda install -c conda-forge fastapi`

`conda install -c "conda-forge/label/cf202003" fastapi`

```
(base) alpha@Akhands-MacBook-Pro testlab % conda install -c conda-forge fastapi
Retrieving notices: ...working... done
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /Users/alpha/opt/anaconda3

added / updated specs:
  - fastapi

The following packages will be downloaded:



| package          | build          |        |             |
|------------------|----------------|--------|-------------|
| boltons-23.0.0   | pyhd8ed1ab_0   | 296 KB | conda-forge |
| conda-23.3.1     | py39hecd8cb5_0 | 962 KB |             |
| fastapi-0.95.1   | pyhd8ed1ab_0   | 48 KB  | conda-forge |
| jsonpatch-1.32   | pyhd8ed1ab_0   | 14 KB  | conda-forge |
| jsonpointer-2.0  | py_0           | 9 KB   | conda-forge |
| pydantic-1.10.7  | py39ha30fb19_0 | 1.8 MB | conda-forge |
| starlette-0.26.1 | pyhd8ed1ab_0   | 53 KB  | conda-forge |
| Total:           |                | 3.1 MB |             |



The following NEW packages will be INSTALLED:

boltons                conda-forge/noarch::boltons-23.0.0-pyhd8ed1ab_0
fastapi                conda-forge/noarch::fastapi-0.95.1-pyhd8ed1ab_0
jsonpatch              conda-forge/noarch::jsonpatch-1.32-pyhd8ed1ab_0
jsonpointer            conda-forge/noarch::jsonpointer-2.0-py_0
pydantic               conda-forge/osx-64::pydantic-1.10.7-py39ha30fb19_0
starlette              conda-forge/noarch::starlette-0.26.1-pyhd8ed1ab_0

The following packages will be UPDATED:

conda                  23.1.0-py39hecd8cb5_0 --> 23.3.1-py39hecd8cb5_0

Proceed ([y]/n)? y

Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(alpha) alpha@Akhands-MacBook-Pro testlab % conda install -c "conda-forge/label/cf202003" fastapi
Collecting package metadata (current_repodata.json): done
Solving environment: done

# All requested packages already installed.
```

Step 3: write code to access fastAPI

```
main | < > main
main > No Selection
1 from typing import Union
2
3 from fastapi import FastAPI
4
5 app = FastAPI()
6
7 @app.get("/")
8 def read_root():
9     return {"Hello": "World"}
10
11
12 @app.get("/items/{item_id}")
13 def read_item(item_id: int, q: Union[str, None] = None):
14     return {"item_id": item_id, "q": q}
15
```

Step 4: Write test function for finding Prime number

```
prime | < > prime
prime > No Selection
1 |
2
3 def primeno(number):
4     flag = False
5
6     for i in range(2,number):
7         if (number%i)==0:
8             flag = True
9             break
10
11     if flag:
12         return False
13     else:
14         return True
15
16 print(primeno(3))
17
```

Step 5: Run the above script.

```
(base) alpha@Akhands-MacBook-Pro testlab % python main.py
(base) alpha@Akhands-MacBook-Pro testlab % python prime.py
True
(base) alpha@Akhands-MacBook-Pro testlab % █
```