

Agenda For the Week:

Build an authentication Flask API

GitHub Repo Link:

<https://github.com/SarayuGautam/Flask-API-For-Login-and-Registration>

Accomplished:

Created a Flask API for user registration and login with MySQL as a database. Database connection done manually

Most Frequent problem encountered:

Circular import error while making separate files for separate purposes.

Also Tried:

Using Blueprint for authentication related routes. Removed because of a problem caused by circular import.

Tasks could be better if:

Used SQLAlchemy instead of plain MySQL + Separate Files used for separate purpose

Related Readings:

<https://www.udemy.com/course/python-for-beginners-course-/> (Only Flask portion)

<https://medium.com/swlh/orm-and-sqlalchemy-the-magic-wand-in-database-management-a2d02877a57a>

<https://dev.to/lordghostx/authentication-vs-authorization-c0?signin=true>

<https://ayushirawat.com/django-vs-flask-choose-the-best-framework-for-you>

<https://www.youtube.com/watch?v=WteIH6J9v64>

Related Screenshots:

```
C:\Users\sarayu>cd Desktop
C:\Users\sarayu\Desktop>mkdir falskproj
C:\Users\sarayu\Desktop>cd falskproj
The system cannot find the path specified.
C:\Users\sarayu\Desktop>cd falskproj
C:\Users\sarayu\Desktop\falskproj>virtualenv vnev
'virtualenv' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\sarayu\Desktop\falskproj>virtualenv venv
created virtual environment CPython3.8.4.final.0-64 in 2914ms
creator CPython3Windows(dest=C:\Users\sarayu\Desktop\falskproj\venv, clear=False, no_vcs_ignore=False, global=False)
seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\sarayu\AppData\Local\pypa\virtualenv)
added seed packages: pip==21.0.1, setuptools==52.0.0, wheel==0.36.2
activators BashActivator,BatchActivator,FishActivator,PowerShellActivator,PythonActivator,XonshActivator
C:\Users\sarayu\Desktop\falskproj>cd venv
C:\Users\sarayu\Desktop\falskproj\venv>cd script/activate
The system cannot find the path specified.
C:\Users\sarayu\Desktop\falskproj\venv>cd script/activate
The system cannot find the path specified.
C:\Users\sarayu\Desktop\falskproj\venv>cd scripts\activate
The directory name is invalid.
C:\Users\sarayu\Desktop\falskproj\venv>cd scripts
C:\Users\sarayu\Desktop\falskproj\venv\Scripts>cd activate
The directory name is invalid.
C:\Users\sarayu\Desktop\falskproj\venv\Scripts>activate
(venv) C:\Users\sarayu\Desktop\falskproj\venv\Scripts>cd ..
(venv) C:\Users\sarayu\Desktop\falskproj\venv>cd ..
(venv) C:\Users\sarayu\Desktop\falskproj>pip install flask
Collecting flask
  Downloading Flask-1.1.2-py2.py3-none-any.whl (94 kB)
    | 94 kB 807 kB/s
Collecting itsdangerous>=0.24
  Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
Collecting click>=5.1
  Downloading click-7.1.2-py2.py3-none-any.whl (82 kB)
    | 82 kB 3.0 MB/s
Collecting Jinja2>=2.10.1
  Downloading Jinja2-2.11.3-py2.py3-none-any.whl (125 kB)
    | 125 kB 3.2 MB/s
Collecting Werkzeug>=0.15
  Downloading Werkzeug-1.0.1-py2.py3-none-any.whl (298 kB)
    | 298 kB 6.4 MB/s
Collecting MarkupSafe>=0.23
  Downloading MarkupSafe-1.1.1-cp38-cp38-win_amd64.whl (16 kB)
Installing collected packages: MarkupSafe, Werkzeug, Jinja2, itsdangerous, click, flask
Successfully installed Jinja2-2.11.3 MarkupSafe-1.1.1 Werkzeug-1.0.1 click-7.1.2 flask-1.1.2 itsdangerous-1.1.0
```

Fig 1: Flask installation while learning Virtual Environment

| Section 2: FLASK FRAMEWORK | |
|---|--|
| 20 / 22 5hr 25min | |
| <div> <div>✓</div> <div>51. Tutorial 1- Flask Framework Overview.</div> <div>11min</div> </div> | |
| <div> <div>✓</div> <div>52. Tutorial 2-Flask Framework Environment</div> <div>19min</div> </div> | |
| <div> <div>✓</div> <div>53. Tutorial 3-Flask Framework Hello World</div> <div>16min</div> </div> | |
| <div> <div>✓</div> <div>54. Tutorial 4-Flask Framework Routing</div> <div>4min</div> </div> | |
| <div> <div>✓</div> <div>55. Tutorial 5-Flask Framework Variable rules</div> <div>5min</div> </div> | |
| <div> <div>✓</div> <div>56. Tutorial 6-Flask Framework URL Building</div> <div>11min</div> </div> | |
| <div> <div>✓</div> <div>57. Tutorial 7-HTTP Method Flask Framework</div> <div>15min</div> </div> | |
| <div> <div>✓</div> <div>58. Tutorial 8-Flask Framework Templates</div> <div>7min</div> </div> | |
| <div> <div>✓</div> <div>59. Tutorial 9-Flask Framework Static Files</div> <div>9min</div> </div> | |
| <div> <div>✓</div> <div>60. Tutorial 10-Flask Framework Request Object</div> <div>6min</div> </div> | |
| <div> <div>✓</div> <div>61. Tutorial 11-Flask Framework Request.from Object</div> <div>15min</div> </div> | |
| | <div> <div>✓</div> <div>62. Tutorial 12-Flask Framework Cookies</div> <div>14min</div> </div> |
| | <div> <div>✓</div> <div>63. Tutorial 13-Flask Framework Session Object</div> <div>21min</div> </div> |
| | <div> <div>✓</div> <div>64. Tutorial 14-Flask Framework Redirects & Errors</div> <div>17min</div> </div> |
| | <div> <div>✓</div> <div>65. Tutorial 15-Flask Framework Message Flashing</div> <div>17min</div> </div> |
| | <div> <div>✓</div> <div>66. Tutorial 16-Flask Framework File Uploading</div> <div>15min</div> </div> |
| | <div> <div>✓</div> <div>67. Tutorial 17-Flask Framework Extensions</div> <div>9min</div> </div> |
| | <div> <div>✓</div> <div>68. Tutorial 18-Flask Framework Mail</div> <div>18min</div> </div> |
| | <div> <div>✓</div> <div>69. Tutorial 19-Flask Framework WTF Extension</div> <div>30min</div> </div> |
| | <div> <div>✓</div> <div>70. Tutorial 20-Flask Framework SQLite</div> <div>26min</div> </div> |

Fig 2: Flask Framework course completion in Udemy

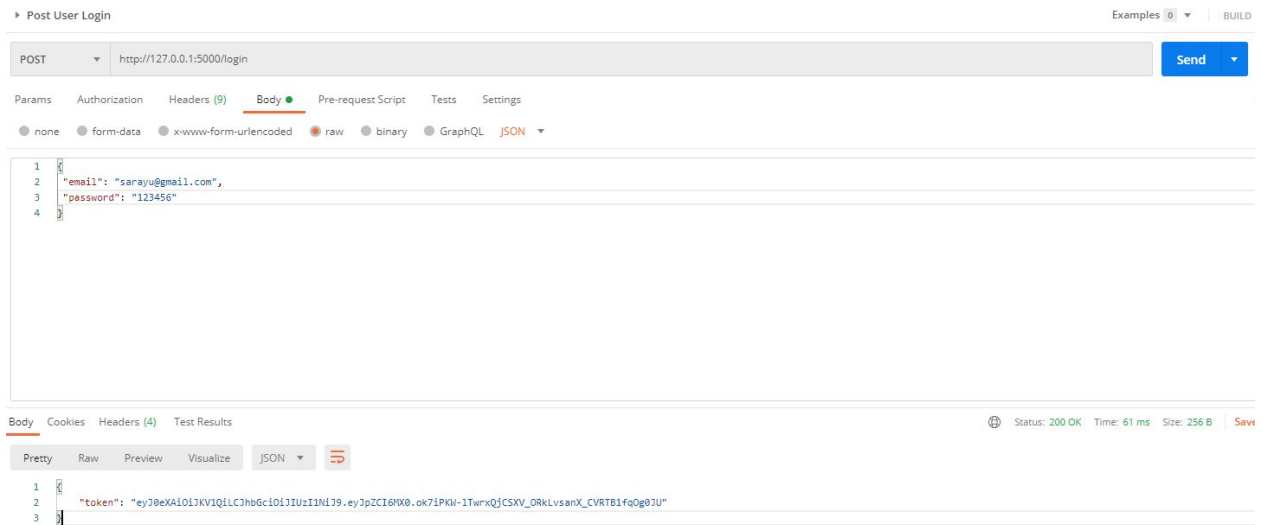


Fig 3: Demo of POST request for user registration using Postman

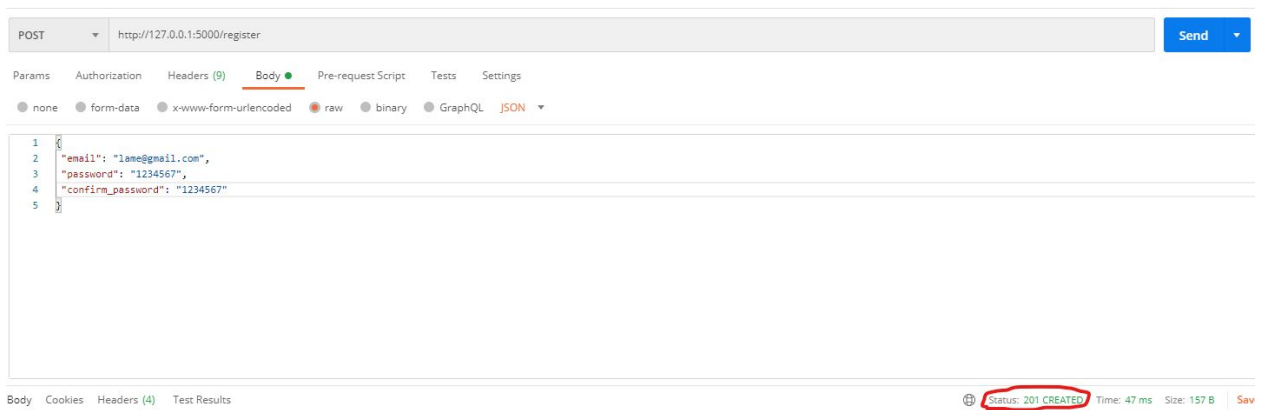


Fig 4: Demo of POST request for user login using Postman