

# IT 314 - LAB 5 (Static Analysis)



Software Engineering

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Group No.: 29

- Static Analysis Tool used : mypy (Python)
- Github Repository used :  
<https://github.com/CT83/Rumaro.git>
- Files used in static testing:
  1. apis/utils.py
  2. apis/config.py
  3. apis/run\_analysis.py
  4. apis/\_\_init\_\_.py

## 01. apis/utils.py

Result Screenshot:

```
PS C:\Users\student\202001452\Rumaro-master\apis> python -m mypy utils.py
utils.py:3: error: Cannot find implementation or library stub for module named "cv2"
utils.py:3: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
utils.py:4: error: Cannot find implementation or library stub for module named "numpy"
Found 2 errors in 1 file (checked 1 source file)
PS C:\Users\student\202001452\Rumaro-master\apis>
```

Lines which produced errors:

```
3 import cv2
4 from numpy import unicode
```

Here, Error :cannot find implementation or library stub for module named "cv2", "numpy". Shows that module mypy doesn't contain any kind of special functions or implementations to check these module's implementations.

This stubs/implementations can be installed from respective module's github repositories > stub folders.

## 02. apis/config.py

Result Screenshot:

```
PS C:\Users\student\202001452\Rumaro-master\apis> python -m mypy config.py
config.py:5: error: unexpected indent
Found 1 error in 1 file (errors prevented further checking)
PS C:\Users\student\202001452\Rumaro-master\apis>
```

Lines which produced errors:

```
4 MAX_POSTS_TO_ANALYSE = 25
5 |         ENABLE_DEEP_FASHION = True
```

Here, This error was caused by extra indent given at line 5 which can be observed here.

## 03. apis/run\_analysis.py

Result Screenshot:

```
PS C:\Users\student\202001452\Rumaro-master\apis> python -m mypy run_analysis.py
run_analysis.py:10: error: Cannot find implementation or library stub for module named "cv2"
run_analysis.py:10: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
run_analysis.py:11: error: Cannot find implementation or library stub for module named "installoader"
config.py:5: error: unexpected indent
Found 3 errors in 2 files (errors prevented further checking)
```

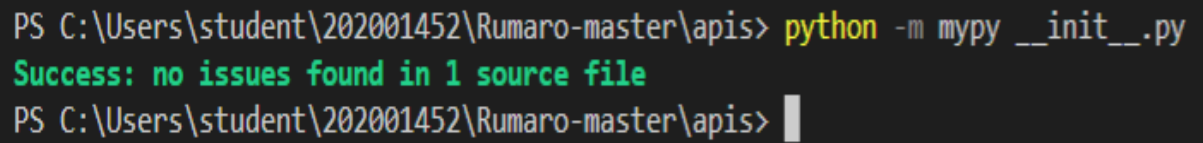
Lines which produced errors:

```
import cv2
from installoader import Profile, Installoader
```

Here, This error was caused by the same kind of error which was shown in the first file utils.py as it also doesn't have stubs for installoader module.

#### 04. apis/\_\_init\_\_.py

Result Screenshot:



```
PS C:\Users\student\202001452\Rumaro-master\apis> python -m mypy __init__.py
Success: no issues found in 1 source file
PS C:\Users\student\202001452\Rumaro-master\apis> |
```

Here, module mypy couldn't find any kind of error or warning; hence it doesn't show any error or warning message.

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