

**IT314**

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**GROUP:14**

**LAB:5**

- **Static Analysis Tool used:**  
mypy
- **Github repository used:**  
<https://github.com/CT83/SmoothStream>
- **Files for which mypy tool used:**

## 1. Stream.py

### Command Prompt Output:

```
PS C:\Users\student\Downloads\SmoothStream-master> python -m mypy Streamer.py
utils.py:48: error: Cannot find implementation or library stub for module named "cv2" [import]
camera\Camera.py:17: error: Cannot find implementation or library stub for module named "imutils" [import]
camera\Camera.py:18: error: Cannot find implementation or library stub for module named "imutils.video" [import]
camera\Camera.py:38: error: Cannot find implementation or library stub for module named "cv2" [import]
Streamer.py:3: error: Cannot find implementation or library stub for module named "cv2" [import]
Streamer.py:3: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
Streamer.py:4: error: Cannot find implementation or library stub for module named "zmq" [import]
Found 6 errors in 3 files (checked 1 source file)
PS C:\Users\student\Downloads\SmoothStream-master>
```

### Explanation of Errors:

The errors are related to the cv2,imutils,imutils.video and zmq module. Mypy detected the errors because those modules haven't been installed in the computer and therefore the functions related to it cannot be accessed.

## 2. StreamViewer.py

### Command Prompt Output:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\student\Downloads\SmoothStream-master> python -m mypy StreamViewer.py
utils.py:48: error: Cannot find implementation or library stub for module named "cv2" [import]
StreamViewer.py:3: error: Cannot find implementation or library stub for module named "cv2" [import]
StreamViewer.py:3: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
StreamViewer.py:5: error: Cannot find implementation or library stub for module named "zmq" [import]
Found 3 errors in 2 files (checked 1 source file)
```

### Explanation of Errors:

The errors are related to the cv2 and zmq module. Mypy detected the errors because the those module hasn't been installed in the computer and therefore the functions related to it cannot be accessed.

## 3. utils.py

### Command Prompt Output:

```
PS C:\Users\student\Downloads\SmoothStream-master> python -m mypy utils.py
utils.py:48: error: Cannot find implementation or library stub for module named "cv2" [import]
utils.py:48: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
Found 1 error in 1 file (checked 1 source file)
PS C:\Users\student\Downloads\SmoothStream-master>
```

### Explanation of Errors:

The errors are related to the cv2 module. Mypy detected the errors because the those module hasn't been installed in the computer and therefore the functions related to it cannot be accessed.

#### 4. camera/Camera.py

##### Command Prompt Output:

```
PS C:\Users\student\Downloads\SmoothStream-master> cd camera
PS C:\Users\student\Downloads\SmoothStream-master\camera> python -m mypy Camera.py
C:\Users\student\Downloads\SmoothStream-master\utils.py:48: error: Cannot find implementation or library stub for module named "cv2" [import]
Camera.py:17: error: Cannot find implementation or library stub for module named "imutils" [import]
Camera.py:18: error: Cannot find implementation or library stub for module named "imutils.video" [import]
Camera.py:18: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Camera.py:38: error: Cannot find implementation or library stub for module named "cv2" [import]
Found 4 errors in 2 files (checked 1 source file)
PS C:\Users\student\Downloads\SmoothStream-master\camera>
```

##### Explanation of Errors:

The errors are related to the imutils, imutils.video and cv2 module. Mypy detected the errors because those modules haven't been installed in the computer and therefore the functions related to it cannot be accessed.

#### 5. camera/\_\_init\_\_.py

##### Command Prompt Output:

```
PS C:\Users\student\Downloads\SmoothStream-master\camera> python -m mypy __init__.py
Success: no issues found in 1 source file
PS C:\Users\student\Downloads\SmoothStream-master\camera>
```

No errors detected by mypy.