

IT314 Software Engineering

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Group:26

Lab:05

❖ Static Analysis Tool used:

➤ Mypy

❖ GitHub Repository used:

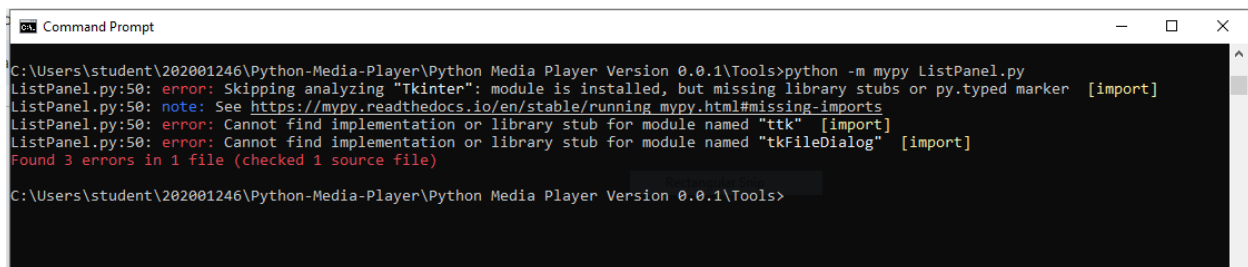
➤ <https://github.com/surajsinghbisht054/Python-Media-Player.git>

❖ directory:

➤ Python Media Player Version 0.0.1/Tool/

1. ListPanal.py

Command Prompt Output:



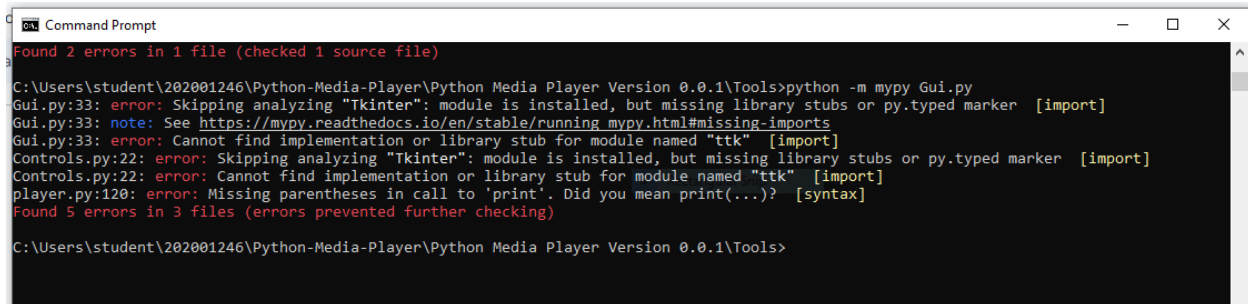
```
Command Prompt
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>python -m mypy ListPanel.py
ListPanel.py:50: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
ListPanel.py:50: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
ListPanel.py:50: error: Cannot find implementation or library stub for module named "ttk" [import]
ListPanel.py:50: error: Cannot find implementation or library stub for module named "tkFileDialog" [import]
Found 3 errors in 1 file (checked 1 source file)
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
```

Explanation of Errors:

The first line of the error message, "Skipping analyzing 'Tkinter'", indicates that 'mypy' is skipping analysis of the Tkinter module, which is a Python GUI toolkit. This is likely because the module is already installed on your system, but the necessary library stubs or 'py.typed' marker are missing.

2. Gui.py

Command Prompt OutPut:



```
Found 2 errors in 1 file (checked 1 source file)
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>python -m mypy Gui.py
Gui.py:33: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
Gui.py:33: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
Gui.py:33: error: Cannot find implementation or library stub for module named "ttk" [import]
Controls.py:22: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
Controls.py:22: error: Cannot find implementation or library stub for module named "ttk" [import]
player.py:120: error: Missing parentheses in call to 'print'. Did you mean print(...)? [syntax]
Found 5 errors in 3 files (errors prevented further checking)

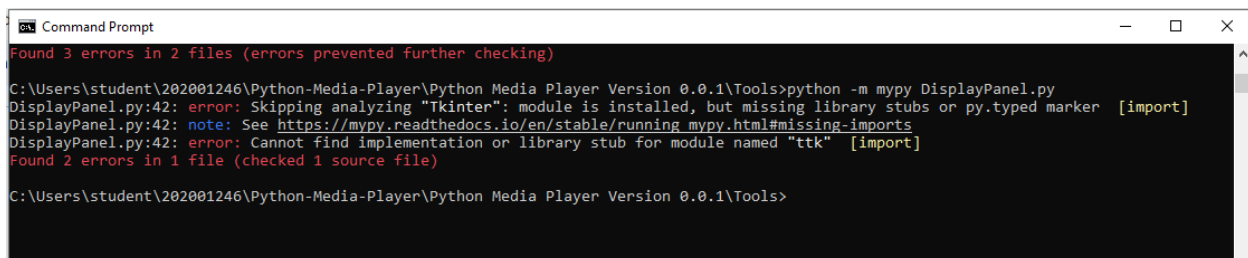
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
```

Explanation of Errors:

Error message "Cannot find implementation or library stub for module named 'ttk'" and "Cannot find implementation or library stub for module named 'tkFileDialog'", indicate that 'mypy' is unable to find the necessary type information for the ttk and tkFileDialog modules, which are part of the Tkinter module.

3. Displaypanel.py

Command Prompt Output:



```
Found 3 errors in 2 files (errors prevented further checking)
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>python -m mypy DisplayPanel.py
DisplayPanel.py:42: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
DisplayPanel.py:42: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports
DisplayPanel.py:42: error: Cannot find implementation or library stub for module named "ttk" [import]
Found 2 errors in 1 file (checked 1 source file)

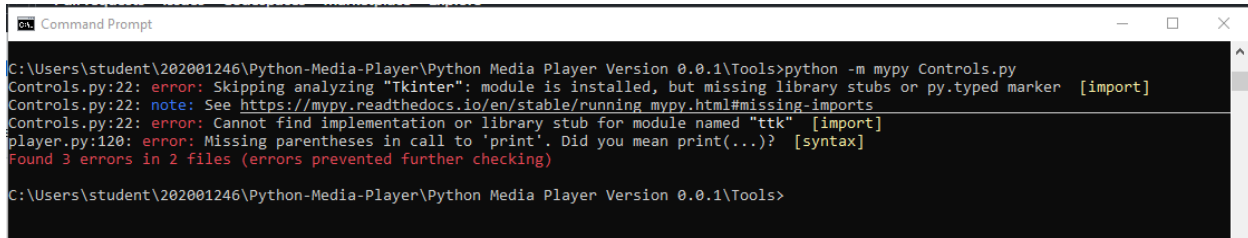
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
```

Explanation of Errors:

to perform static type checking, mypy relies on library stubs, which are files that provide type annotations for functions and classes in external libraries. The py.typed marker is a file that indicates that a package or module includes type information.

4. Contral.py

Command Prompt Output:



```
Command Prompt
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>python -m mypy Controls.py
Controls.py:22: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
Controls.py:22: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Controls.py:22: error: Cannot find implementation or library stub for module named "ttk" [import]
player.py:120: error: Missing parentheses in call to 'print'. Did you mean print(...)? [syntax]
Found 3 errors in 2 files (errors prevented further checking)

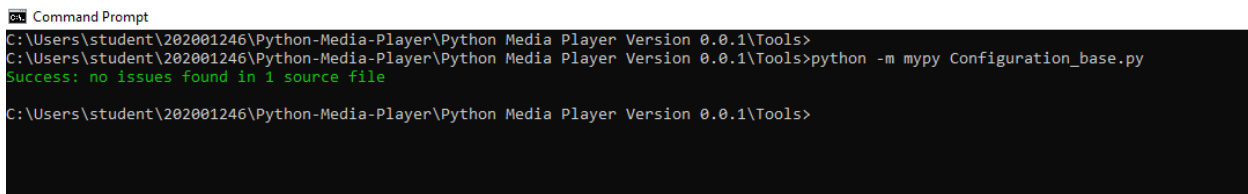
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
```

Explanation of Errors:

Mypy is skipping analysis of the Tkinter module, a Python GUI toolkit, as indicated by the first line of the error message, "Skipping analysing 'Tkinter'". This is probably due to the module being installed on your system, but not having the required library stubs or py.typed marker.

5.Configuration_base.py

Command Prompt Output:



```
Command Prompt
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>python -m mypy Configuration_base.py
Success: no issues found in 1 source file

C:\Users\student\202001246\Python-Media-Player\Python Media Player Version 0.0.1\Tools>
```

Explanation of Errors:

No errors detected by mypy.

Thank you