## IT-314 Software Engineering Lab - 5 Static Analysis

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Link to the repository: <a href="https://github.com/masterjinkal/Lab-5">https://github.com/masterjinkal/Lab-5</a> 202001166

## Static analysis using mypy tool

To install mypy: python -m pip install mypy

Command for finding errors in the file: python -m mypy <FILE\_PATH>

## 1. Instal mypy

2. Find errors using the python -m mypy <FILE PATH> command

Repo: library-managment-system-python

```
C:\Users\student\library-management-system-python->python -m mypy admin.py
Success: no issues found in 1 source file
C:\Users\student\library-management-system-python->
```

As seen there are no errors in the file chosen

Repository: Student-Management-System

layout/site\_script.js

```
C:\Users\student>cd Student-Management-System
C:\Users\student\Student-Management-System>python -m mypy layout/site_script.js
layout\site_script.js:1: error: invalid syntax [syntax]
Found 1 error in 1 file (errors prevented further checking)
C:\Users\student\Student-Management-System>
```

Here, there is syntax error in the file and the error prevents further checking.

- login.php

```
C:\Users\student\Student-Management-System>python -m mypy page/login/login.php
page\login\login.php:81: error: invalid decimal literal [syntax]
Found 1 error in 1 file (errors prevented further checking)
C:\Users\student\Student-Management-System>
```

Here, there is the error of decimal literal in login.php

controller.js

```
C:\Users\student\Student-Management-System>python -m mypy student/controller/controller.js
student\controller\controller.js:6: error: invalid syntax [syntax]
Found 1 error in 1 file (errors prevented further checking)
C:\Users\student\Student-Management-System>_
```

- connect.php

```
C:\Users\student\Student-Management-System>python -m mypy config/connect.php
config\connect.php:2: error: invalid syntax [syntax]
Found 1 error in 1 file (errors prevented further checking)
C:\Users\student\Student-Management-System>
```