**Static Analysis Report**

After generating static analysis reports for both the backend (python) and frontend (typescript) the following ten warning/errors were chosen.

**Backend Django-Python:**

backend/urls.py:5:0: W0611: Unused format\_suffix\_patterns imported from rest\_framework.urlpatterns (unused-import)

Old import which is no longer used in this file. Has been removed.

backend/post/models.py:13:4: E0307: \_\_str\_\_ does not return str (invalid-str-returned)

Method is returning self.title, this is an object instance rather than a string. It has now been cast to a string using str().

backend/post/views.py:30:8: R1705: Unnecessary "else" after "return" (no-else-return)

Else statement after return statement inside the if is not needed. Else was removed, now flow of control will produce the same results.

backend/post/views.py:170:0: C0103: Function name "saveFile" doesn't conform to snake\_case naming style (invalid-name)

Function name was not following snake\_case convention. Has now been changed to save\_file, had to also change the places where the method was called in the backend.

backend/account/views.py:9:0: W0404: Reimport 'Response' (imported line 5) (reimported)

Import list had duplicate entry for the rest framework response. One has now been removed.

**Frontend Angular-Typescript:**

ERROR: 6:5 prefer-const Identifier 'httpOptions' is never reassigned; use 'const' instead of 'let'.

Identifier was defined using ‘let’, never reassigned so we can set to ‘const’ instead.

ERROR: 29:3 typedef expected call-signature: 'login' to have a typedef

Method return type was not declared. Now set to Observable<any> which is what is returned.

ERROR: 6:13 component-selector The selector should be kebab-cased and include a dash (https://angular.io/guide/styleguide#style-05-02)

This error brought attention to the whole component commentPage being in camelCase rather than kebab-case. Used VSCODEs refactor rename to change name to comment-page. Had to change name where it was called inside post-detail.

ERROR: 52:11 variable-name variable name must be in lowerCamelCase, PascalCase or UPPER\_CASE

Variable was named in snake case as post\_id rather than camelCase which is the convention we have been using throughout our typescript code. Now changed to postId, had to also change where the variable was called within the same method.

ERROR: 42:71 triple-equals != should be !==

Typescript wants our comparison to be strict. We are using ‘!=’ to now, which is not type specific. Our LHS is an integer so we may as well use ‘!==’ as our RHS is -1, which is also an integer.