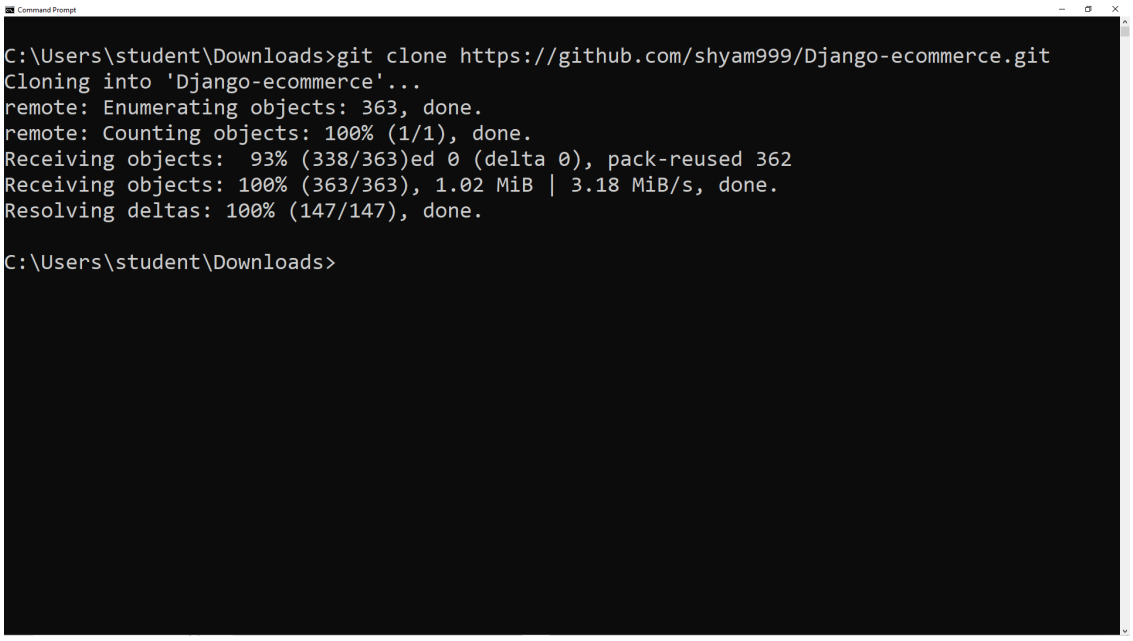
IT314 Software Engineering

Lab 05: Static Analysis

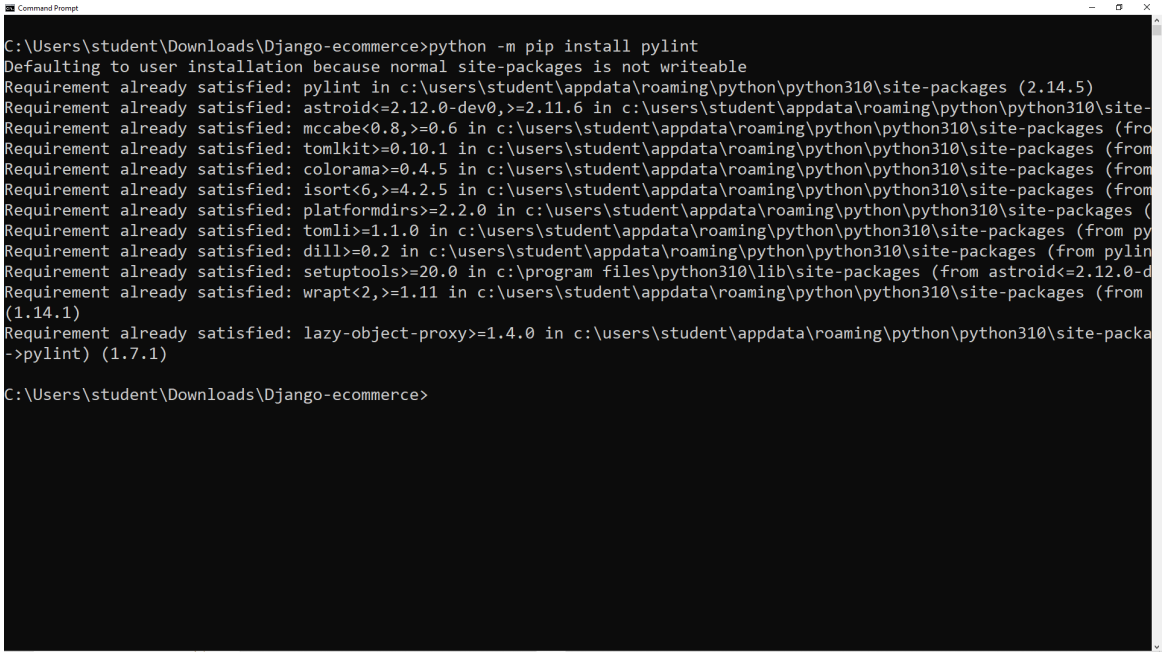
ID: 202001139

Name: Poriya Neel Dharmeshbhai

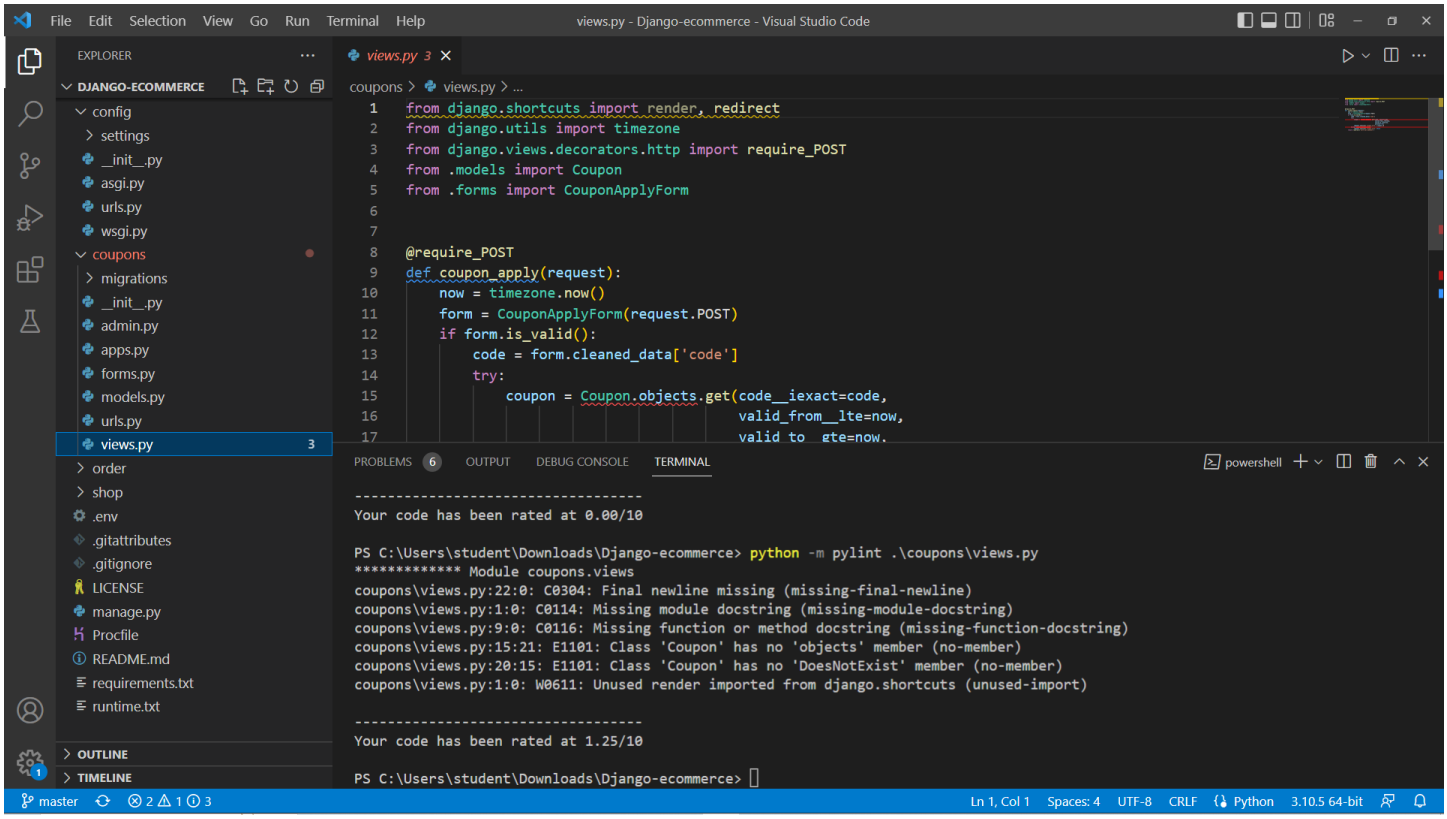
Cloning repo with link: https://github.com/shyam999/Django-ecommerce



Installing pylint:



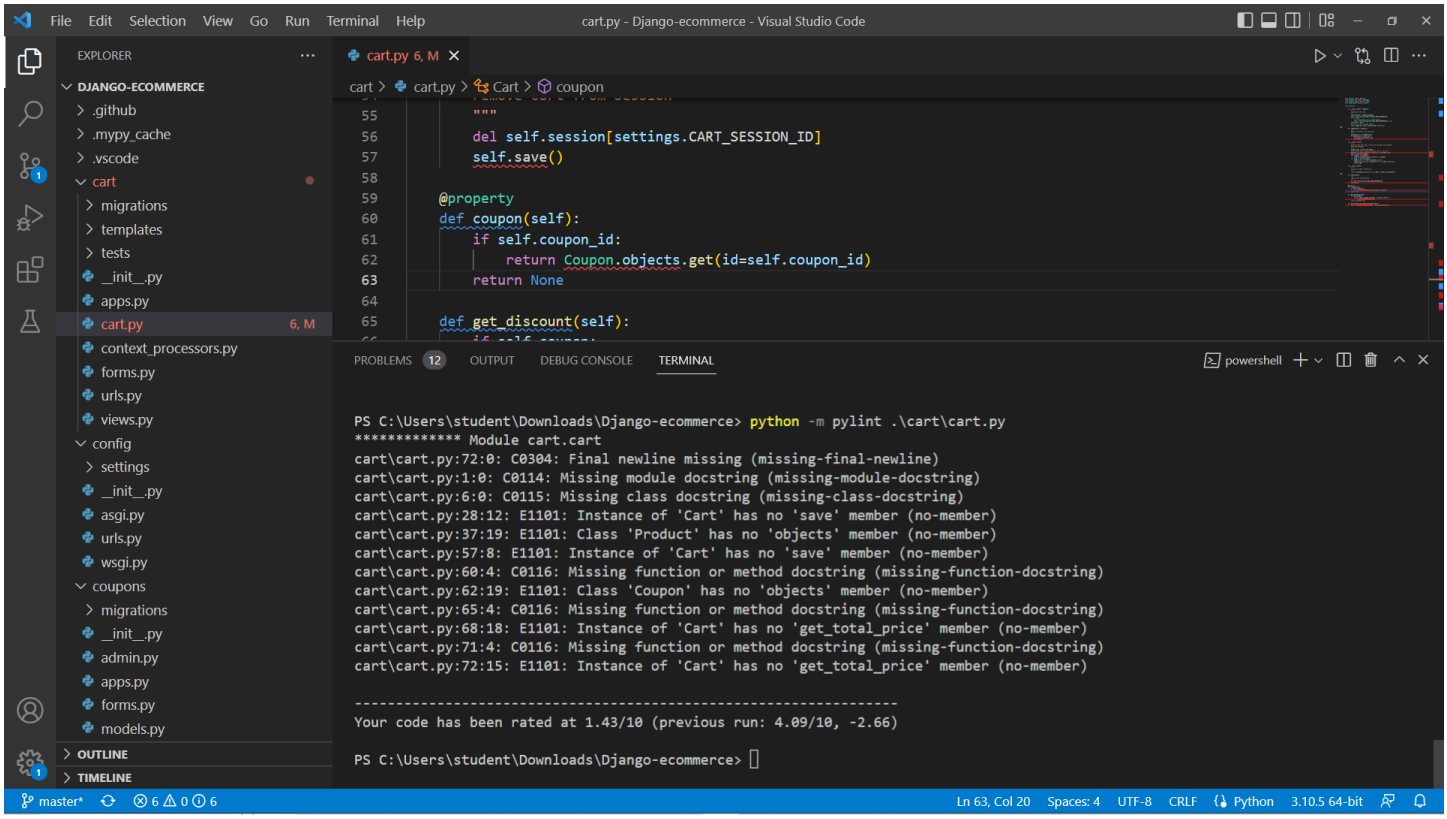
Analyzing file: ./coupons/views.py



Analysis:

- **C0304 : Missing Module Error:** A module docstring is a string that appears at the beginning of a Python module and provides information about the module's purpose, contents, and usage. Pylint expects every module to have a docstring and raises an error if it's missing.
- **E1101 Class 'Coupon' has no 'objects' member:** The E1101 error in Pylint is a warning message that indicates an instance attribute has been accessed before it has been defined. This error typically occurs when an instance attribute is accessed within a class or method, but it has not been defined within the class or its parent classes.
- **W0611 Unused render imported from django.shortcuts:** The W0611 error in Pylint is a warning message that indicates an unused variable. This error is triggered when a variable is defined but not used anywhere in the code.

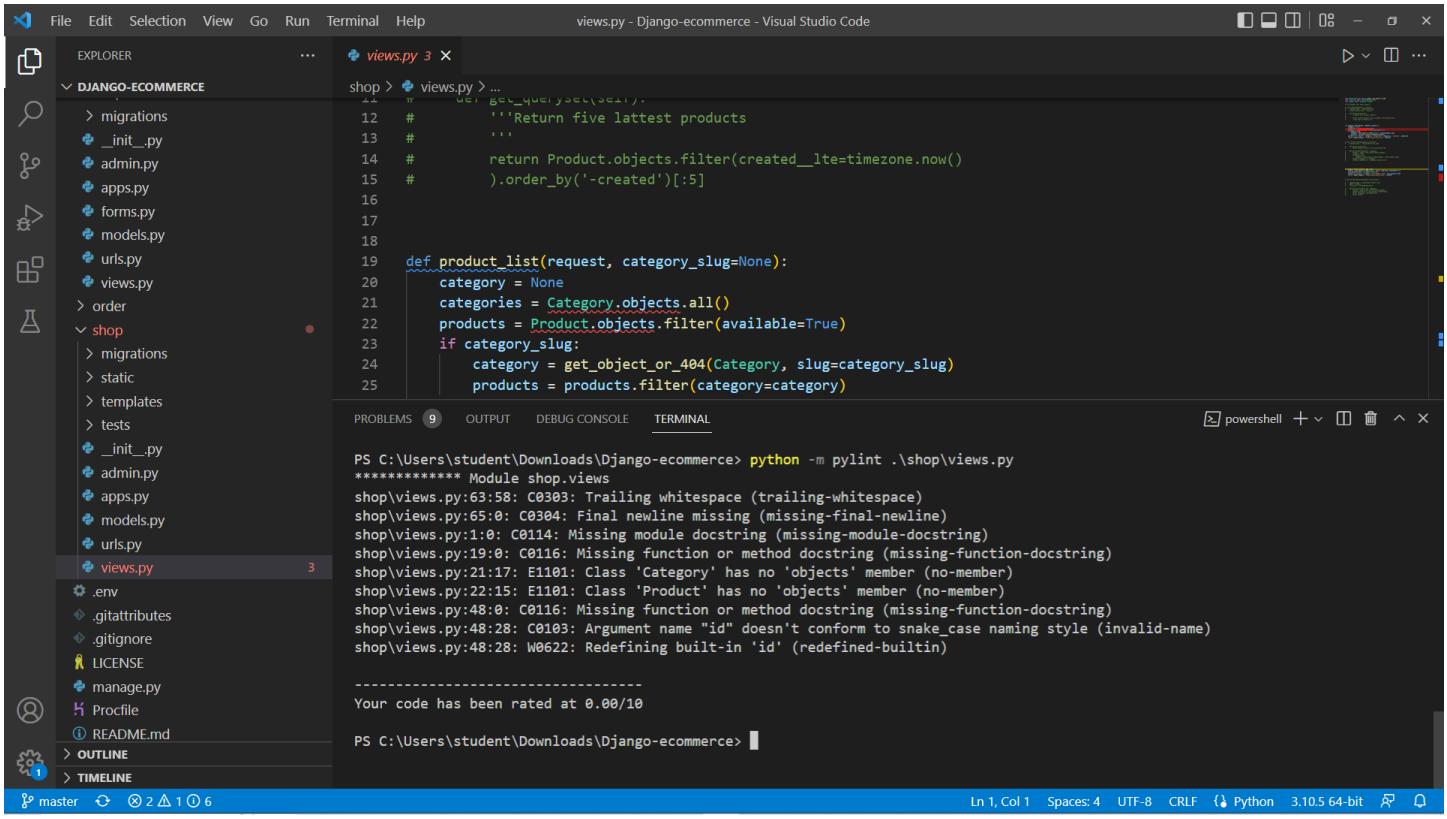
Analyzing ./cart/cart.py file:



Analysis:

- **C0114 : Missing Module Error:** A module docstring is a string that appears at the beginning of a Python module and provides information about the module's purpose, contents, and usage. Pylint expects every module to have a docstring and raises an error if it's missing.
- **E1101 : Instance of 'Cart' has no 'save' member:** the error message "Instance of 'Cart' has no 'save' member" indicates that you are trying to call a method named save on an instance of the Cart class, but that method does not exist on the Cart class.
- **C0116 : Missing function docstring:** This error message indicates that Pylint has detected a missing docstring in your function or method. To resolve this error, you should add a docstring to your function or method.
- **E1101 : Instance of 'Cart' has no 'get_total_price' member:** the error message "Instance of 'Cart' has no 'get_total_price' member" indicates that you are trying to call a method named 'get_total_price' on an instance of the Cart class, but that method does not exist on the Cart class.

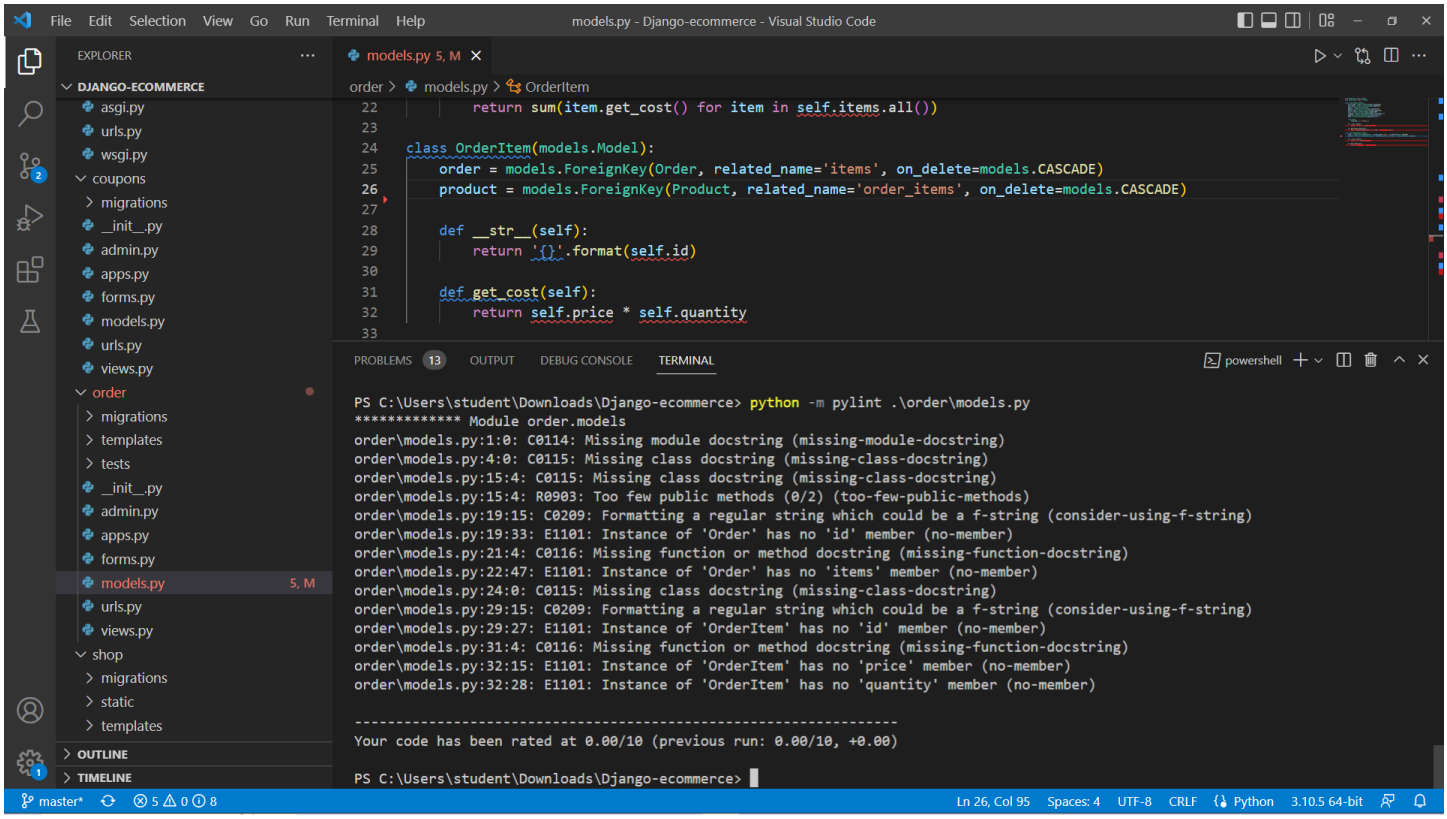
Analyzing file ./shop/views.py



Analysis:

- **C0303 : Trailing whitespace:** This error message indicates that Pylint has detected one or more lines of code that end with trailing whitespace. To resolve this error, you should remove the trailing whitespace from the affected lines of code.
- **C0114 : Missing Module Error:** A module docstring is a string that appears at the beginning of a Python module and provides information about the module's purpose, contents, and usage. Pylint expects every module to have a docstring and raises an error if it's missing.
- **C0103: Argument name 'id' doesn't conform to snake_case styling:** This error shows that proper variable naming conventions is not used. Here pylint suggests that we should use snake_case convention for naming variables.
- **W0622 : Redefining built-in 'id':** Used when a variable or function override a built-in. This means that the 'id' variable is redefined again somewhere inside code.

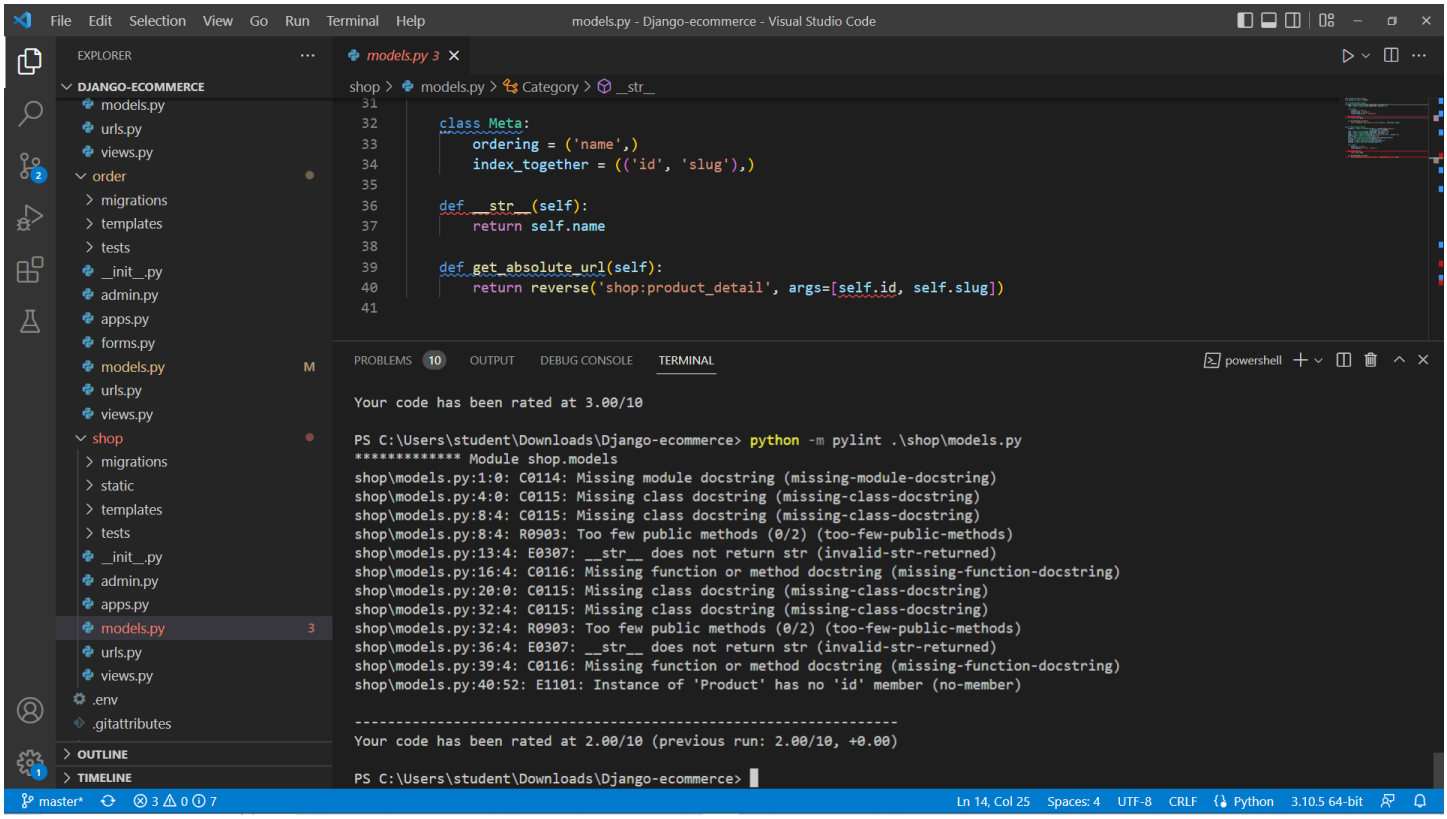
Analyzing file : ./order/models.py



Analysis:

- **C0303 : Trailing whitespace:** This error message indicates that Pylint has detected one or more lines of code that end with trailing whitespace. To resolve this error, you should remove the trailing whitespace from the affected lines of code.
- **R0903 : Too few public methods:** The error basically says that classes aren't meant to just store data, as you're basically treating the class as a dictionary.
- **E1101 :Instance of 'OrderItem' has no 'price' member:** The E1101 error is a type of error that occurs in Python when a module or class member is accessed that does not exist.

Analyzing file: ./shop/models.py



Analysis:

- **C0303 : Trailing whitespace:** This error message indicates that Pylint has detected one or more lines of code that end with trailing whitespace. To resolve this error, you should remove the trailing whitespace from the affected lines of code.
- **E1101 : Instance of 'Product' has no 'id' member:** This error message indicates that you are trying to access an attribute called id on an instance of a class called Product, but the id attribute is not defined for that class.
- **R0903 : Too few public methods:** This warning message indicates that a class has too few public methods, which could suggest a design issue or a potential problem with the class's functionality.
- **E0307 : __str__ does not return str:** If the __str__ method of a class does not return a string, it can lead to errors when the method is called. For example, if you try to print an object that has a faulty __str__ method, you may get unexpected output or an error message.