Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/ Method	Description	Code Example
Packaging	To create a package, the folder structure is as follows: 1. Project folder → Package name →initpy, module_1.py, module_2.py, and so on. 2. In theinitpy file, add code to reference the modules in the package.	<pre>module1.py def function_1(arg): return < operation output> _initpy: from . import function_1</pre>
	package.	

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Package/ Method	Description	Code Example
Python Style Guide	 Four spaces for indentation Use blank lines to separate functions and classes Use spaces around operators and after commas Add larger blocks of code inside functions Name functions and files using lowercase with underscores Name classes using CamelCase Name constants in capital letters with underscores separating words 	<pre>def function_1(a, b): if a > b: c = c + 5 else: c = c - 3 return c c = function_1(a, b) Constant Definition example MAX_FILE_UPLOAD_SIZE</pre>
Static Code Analysis	Use Static code analysis method to evaluate your code against a predefined style and standard without executing the code. For example, use Pylint to perform static code analysis.	Shell code: pylint code.py
Unit Testing	Unit testing is a method to validate if units of code are operating as designed. During code development, each unit is tested. The unit is tested in a continuous integration/continuous	<pre>import unittest from mypackage.mymodule import my_function class TestMyFunction(unittest.TestCase): def test_my_function(self):</pre>

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Package/ Method	Description	Code Example
	delivery test server	
	environment. You can use different test functions to build unit tests and review the unit test output to determine if the test passed or failed.	<pre>result = my_function(<args>)</args></pre>

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