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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 → init.py, module_1.py, module_2.py, and so on. 2. In the init.py file, add code to reference the modules in the package.	<pre>module1.py def function_1(arg): return <operation output=""> init.py: from . import function_1</operation></pre>
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	Shell code: pylint code.py

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Package/Method	Description	Code Example
	standard without executing the code.	
	For example, use Pylint to perform static code analysis.	
	Unit testing is a method to	import unittest
	validate if units of code are operating as designed.	<pre>from mypackage.mymodule import my_function</pre>
	During code development, each unit is tested. The unit is tested in a continuous	<pre>class TestMyFunction(unittest.TestCase):</pre>
Unit Testing	integration/continuous delivery	<pre>def test_my_function(self):</pre>
	test server environment.	result =
	You can use different test functions to build unit tests	<pre>my_function(<args>)</args></pre>
	and review the unit test output	self.asserEqual(result,
	to determine if the test passed or failed.	<response>)</response>
		unittest.main()

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