26/5/24, 20:36 about:blank

Cheatsheet: Python Coding Practices and Packaging Concepts



Estimated time needed: 5 minutes

Package/Method	•	Code Example
Packaging	To create a package, the folder structure is as follows:	
		module1.py
	 Project folder → Package name → init.py, module_1.py, module_2.py, and so on. 	<pre>def function_1(arg):</pre>
		return <operation output=""></operation>
	2. In the init.py file, add code to reference the modules in the package.	init.py:
		<pre>from . import function_1</pre>
Python Style Guide	• Four spaces for indentation	
	• Use blank lines to separate functions and classes	<pre>def function_1(a, b):</pre>
		if a > b:
	 Use spaces around operators and after commas 	c = c + 5
	• Add larger blocks of code inside functions	else:
		c = c - 3
	 Name functions and files using lowercase with underscores 	return c
	 Name classes using CamelCase 	c = function_1(a, b)
	 Name constants in capital letters with underscores separating words 	Constant Definition example
		MAX_FILE_UPLOAD_SIZE
Static Code Analysis Unit Testing	Use Static code analysis method to	
	evaluate your code against a predefined style and standard without executing the code.	Shell code:
		pylint code.py
	For example, use Pylint to perform static code analysis.	± 4
	Unit testing is a method to validate if units of code are operating as designed.	import unittest

about:blank 1/2

26/5/24, 20:36 about:blank

Package/Method	Description	Code Example	
	During code development, each unit	from mypackage.mymodule import	
	is tested. The unit is tested in a	my_function	
	continuous integration/continuous		
	delivery test server environment.	class	
to ur		<pre>TestMyFunction(unittest.TestCase):</pre>	
	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>def test_my_function(self): result = my_function(<args>)</args></pre>	
		<pre>self.asserEqual(result, <response>)</response></pre>	
		unittest.main()	

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Changelog

Date	Version	Changed by	Change Description
2023-07-06	0.1	Abhishek Gagneja	Initial version created
2023-07-10	0.2	Andrew Pfeiffer	Documented in AWB

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about:blank 2/2