

Source	Implementation Smell	Package Name	File Name	Class Name	Method Name	Cause of Smell	Resolved	Remarks
code quality integration report in CI/CD pipelines	Complex Method	account/views/github	config.py	GitHubConfigurationView	get	Function 'get' has a Cognitive Complexity of 15 (exceeds 5 allowed).	TRUE	The Function was refactored and modularized to reduce the complexity.
code quality integration report in CI/CD pipelines	Complex Method	account/views/github	config.py	GitHubConfigurationView	post	Function 'post' has a Cognitive Complexity of 15 (exceeds 5 allowed).	TRUE	The Function was refactored and modularized to reduce the complexity.
code quality integration report in CI/CD pipelines	Complex Method	account/proxies	dashboard_fetch.py	DashBoardFetch	get_pull_requests_status	Function 'get_pull_requests_status' has a Cognitive Complexity of 24 (exceeds 5 allowed).	TRUE	The Function was refactored and modularized to reduce the complexity.
code quality integration report in CI/CD pipelines	Complex Method	service/models/github	refactor.py	GithubRefactorService	refactor_change_code	Function 'refactor_change_code' has a Cognitive Complexity of 7 (exceeds 5 allowed).	FALSE	The Cognitive complexity of 7 is manageable. Hence not refactored.
code quality integration report in CI/CD pipelines	Complex Method	account/views/github	config.py	GitHubConfigurationView	configure_target_branches	Function 'configure_target_branches' has a Cognitive Complexity of 6 (exceeds 5 allowed).	FALSE	The Cognitive complexity of 6 is manageable. Hence not refactored.
code quality integration report in CI/CD pipelines	Long Parameter List	core/utlis/	requests.py		fetch	Function 'fetch' has 8 arguments (exceeds 4 allowed)	FALSE	All the parameters are required for the function and cannot be simplified further. 8 parameters is manageable.
code quality integration report in CI/CD pipelines	Complex Method	core/utlis/	requests.py		fetch	Function 'fetch' has a Cognitive Complexity of 13 (exceeds 5 allowed).	FALSE	The function is not very complex. Hence not refactored
code quality integration report in CI/CD pipelines	Complex Method	account/views/github	config.py	GitHubConfigurationView	process_target_branches	Function 'process_target_branches' has a Cognitive Complexity of 6 (exceeds 5 allowed).	FALSE	The Cognitive complexity of 6 is manageable. Hence not refactored.
code quality integration report in CI/CD pipelines	Complex Method	service/models/github	bot.py	GitHubBot	validate_configurations	Function 'validate_configurations' has a Cognitive Complexity of 10 (exceeds 5 allowed).	FALSE	The function is not very complex. Hence not refactored
Sonarqube code analysis	Duplicate Code	service/test	test_bot.py	BotTestCase		'Second Repository' and 'https://github.com/username/repo2' are used in multiple places.	TRUE	A variable is declared to hold these values. Code refactored.
Sonarqube code analysis	Unnecessary	account/views/github	config.py	GitHubConfigurationView	get	repo instance variable is declared but not used.	TRUE	The variabls is removed. Code refactored.
Sonarqube code analysis	Complex Conditional	account/views/github	config.py	GitHubConfigurationView	validate_configuration	if not max_lines > 0 has unnecessary operations. its complex.	TRUE	Converted to if max_lines <= 0 and if commit_interval <= 0 respectively. Code refactored.
Sonarqube code analysis	Duplicate Code	account/test	test_authorization.py	GitHubAccountTest		"test@test.com" and "Test Co" are used in multiple places.	TRUE	Variables are declared to hold these values. Code refactored.
Sonarqube code analysis	Unnecessary	account/test	test_branch.py	BranchTestCase	test_cleanup	Variables branch1 and branch2 are declared but not used.	TRUE	The unused variables are removed. Code refactored.
Sonarqube code analysis	Unnecessary	account/test	test_config.py	GitHubConfigurationViewTestCase		Variables user_conf,source_config1,source_config2 and target_config are declared but not used.	TRUE	The unused variables are removed. Code refactored.
Sonarqube code analysis	Duplicate Code	account/test	test_dashboard_fetch.py	DashBoardFetchTests		"Test Pull Request", "Commit message", "2023-01-01T00:00:00Z", and "test_user/test_repo" are used in multiple places.	TRUE	Variables are declared to hold these values. Code refactored.
Sonarqube code analysis	Duplicate Code	account/test	test_pull_details.py	PullDetailsTestCase		"Sample Pull Request" is used in multiple places.	TRUE	A variable is declared to hold these values. Code refactored.

Smells	Explanation
Complex Method	This smell arises when an inheritance hierarchy is "too" wide indicating that intermediate types may be missing.
Long Parameter List	This smell arises when an abstraction has more than one responsibility assigned to it.
Duplicate Code	This smell occurs when same code structure is duplicated to multiple places within a software system.
Unnecessary	This smell occurs when a variable is declared but not used anywhere.