| 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/utils/ | 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/utils/ | 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 varialbe is removed. Code refactored. |
| Sonarqube code analysis | Complex Conditional | account/views/github | config.py | GitHubConfigurationView | validate_configuration | if not max_lines > 0 has unnecessary operatiors. its complex. | TRUE | Converted to if max_lines <= 0 and if commit_interval <= 0 repectively. 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. |
| Sonarqube code analysis | Adaptability issue | account/migrations | 0001_initial.py | | | Define a constant instead of duplicating this literal 'account.useraccount' 7 times. | FALSE | This file is auto generated. So its a **false positive** code smell. Hence not 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. |