CODE ANALYSIS

BRAIS-DIFI-TEST

• Branch: master
• Date: 2025-01-31 09:16:47+0000

INTRODUCTION

• This document contains results of the code analysis of brais-difi-test.

CONFIGURATION

• Quality Profiles: Sonar way [css], Sonar way [docker], Sonar way [js], Sonar way [php], Sonar way [plsql], Boehringer way [py], Sonar way [ts], Sonar way [web], Sonar way [xml].
• Quality Gate: Sonar way.

SYNTHESIS

ANALYSIS STATUS

Reliability	Security	Security Review	Maintainability
E	E	E	A

QUALITY GATE STATUS

| Quality Gate Status | OK |

METRICS

Coverage	Duplications	Comment Density	Lines of Code	Cyclomatic Complexity	Cognitive Complexity
0.0%	21.5%	6.0%	363809	41231	35342

TESTS

Total	Success Rate	Skipped	Errors	Failures
0	0%	0	0	0

DETAILED TECHNICAL DEBTS

Reliability	Security	Maintainability	Total

Reliability	Security	Maintainability	Total
2d 07h 27m	0d 01h 05m	18d 10h 41m	20d 19h 13m

LINES PER LANGUAGE

Language	Number of Lines	Total Percent
css	6431	1.77%
docker	87	0.02%
js	1670	0.46%
plsql	6	0.00%
py	145389	39.96%
ts	209477	57.58%
web	732	0.20%
xml	17	0.00%

SECURITY HOTSPOTS

SECURITY HOTSPOTS COUNT BY CATEGORY AND PRIORITY

Categories	Security	Security Hotspots
Buffer Overflow	0 [A]	0 [A]
SQL Injection	0 [A]	0 [A]
Code Injection (RCE)	0 [A]	2 [E]
Object Injection	0 [A]	0 [A]
Command Injection	0 [A]	0 [A]
Path Traversal Injection	0 [A]	0 [A]
LDAP Injection	0 [A]	0 [A]
XPath Injection	0 [A]	0 [A]
Log Injection	0 [A]	0 [A]
XML External Entity(XXE)	0 [A]	0 [A]
Cross-Site Scripting (XSS)	0 [A]	0 [A]
Denial of Service (DoS)	0 [A]	25 [E]
Server-Side Request Forgery (SSRF)	0 [A]	0 [A]
Cross-Site Request Forgery (CSRF)	0 [A]	3 [E]
HTTP Responde Splitting	0 [A]	0 [A]
Open Redirect	0 [A]	0 [A]
Weak Cryptography	4 [D]	22 [E]
Authentication	1 [E]	201 [E]
Insecure Configuration	0 [A]	1 [E]
File Manipulation	0 [A]	0 [A]
Encryption of Sensitive Data	0 [A]	56 [E]
Traceability	0 [A]	0 [A]
Permission	0 [A]	5 [E]
Others	0 [A]	14 [E]

SECURITY HOTSPOT LIST

- Make sure disabling CSRF protection is safe here.

- **Vulnerability Probability:** HIGH

- **Count:** 3

- **Locations:** api/tests/integration_tests/tools/__mock_server/openapi_todo.py: 4 |
  api/tests/unit_tests/configs/test_dify_config.py: 68 | api/tests/unit_tests/conftest.py: 12

- **How to Fix:** Recommended Secure Coding Practices Protection against CSRF attacks is strongly recommended:
  to be activated by default for all unsafe HTTP methods. implemented, for example, with an
  unguessable CSRF token Of course all sensitive operations should not be performed with safe
  HTTP methods like GET which are designed to be used only for information retrieval. Compliant
  Solution For a Django application, it is recommended to protect all the views with
  django.middleware.csrf.CsrfViewMiddleware: MIDDLEWARE = [
  'django.middleware.security.SecurityMiddleware',
  'django.contrib.sessions.middleware.SessionMiddleware',
  'django.middleware.common.CommonMiddleware',
  'django.middleware.csrf.CsrfViewMiddleware', # Compliant
  'django.contrib.auth.middleware.AuthenticationMiddleware',
  'django.contrib.messages.middleware.MessageMiddleware',
  'django.middleware.clickjacking.XFrameOptionsMiddleware',
  ]
  and to not disable the CSRF protection on specific views: def example(request): # Compliant
  return HttpResponse("default")
  For a Flask application, the CSRFProtect module should be used (and not disabled further with
  WTF_CSRF_ENABLED set to false): app = Flask(__name__)
  csrf = CSRFProtect()
  csrf.init_app(app) # Compliant
  and it is recommended to not disable the CSRF protection on specific views or forms:
  @app.route('/example/', methods=['POST']) # Compliant
  def example():
  return 'example '
  class unprotectedForm(FlaskForm):
  class Meta:
  csrf = True # Compliant
  name = TextField('name')
  submit = SubmitField('submit')
  See OWASP - Top 10 2021 Category A1 - Broken Access Control CWE - CWE-352 - Cross-Site
  Request Forgery (CSRF) OWASP - Top 10 2017 Category A6 - Security Misconfiguration OWASP -
  Cross-Site Request Forgery STIG Viewer - Application Security and Development: V-222603 - The
  application must protect from Cross-Site Request Forgery (CSRF) vulnerabilities. PortSwigger -

Web storage: the lesser evil for session tokens

- **Root Cause:** A cross-site request forgery (CSRF) attack occurs when a trusted user of a web application can be forced, by an attacker, to perform sensitive actions that he didn't intend, such as updating his profile or sending a message, more generally anything that can change the state of the application. The attacker can trick the user/victim to click on a link, corresponding to the privileged action, or to visit a malicious web site that embeds a hidden web request and as web browsers automatically include cookies, the actions can be authenticated and sensitive.

- Copying recursively might inadvertently add sensitive data to the container. Make sure it is safe here.

- **Vulnerability Probability:** MEDIUM

- **Count:** 2

- **Locations:** api/Dockerfile: 73 | web/Dockerfile: 28

- **Root Cause:** When building a Docker image from a Dockerfile, a context directory is used and sent to the Docker daemon before the actual build starts. This context directory usually contains the Dockerfile itself, along with all the files that will be necessary for the build to succeed. This generally includes: the source code of applications to set up in the container. configuration files for other software components. other necessary packages or components. The COPY and ADD directives in the Dockerfiles are then used to actually copy content from the context directory to the image file system. When COPY or ADD are used to recursively copy entire top-level directories or multiple items whose names are determined at build-time, unexpected files might get copied to the image filesystem. It could affect their confidentiality.

- **How to Fix:** Recommended Secure Coding Practices Limit the usage of globbing in the COPY and ADD sources definition. Avoid copying the entire context directory to the image filesystem. Prefer providing an explicit list of files and directories that are required for the image to properly run. Compliant Solution FROM ubuntu:22.04
  COPY ./example1 /example1
  COPY ./example2 /example2
  COPY ./run.sh /
  CMD /run.sh
  See Dockerfile reference - COPY directive Dockerfile reference - ADD directive CWE - CWE-668 - Exposure of Resource to Wrong Sphere CWE - CWE-497 - Exposure of Sensitive System Information to an Unauthorized Control Sphere

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- Make sure the regex used here, which is vulnerable to super-linear runtime due to backtracking, cannot lead to denial of service.

- **Vulnerability Probability:** MEDIUM

- **Count:** 7

- **Locations:** web/app/components/base/icons/script.js: 147 | web/app/components/base/icons/script.js: 150 | web/public/vs/basic-languages/wgsl/wgsl.js: 305 | web/public/vs/basic-languages/wgsl/wgsl.js: 305 | web/public/vs/basic-languages/wgsl/wgsl.js: 305 | web/public/vs/basic-languages/wgsl/wgsl.js: 305 | web/public/vs/basic-languages/wgsl/wgsl.js: 305

- **How to Fix:** Recommended Secure Coding Practices To avoid catastrophic backtracking situations, make sure that none of the following conditions apply to your regular expression. In all of the following cases, catastrophic backtracking can only happen if the problematic part of the regex is followed by a pattern that can fail, causing the backtracking to actually happen. If you have a repetition r* or r*?, such that the regex r could produce different possible matches (of possibly different lengths) on the same input, the worst case matching time can be exponential. This can be the case if r contains optional parts, alternations or additional repetitions (but not if the repetition is written in such a way that there's only one way to match it). If you have multiple repetitions that can match the same contents and are consecutive or are only separated by an optional separator or a separator that can be matched by both of the repetitions, the worst case matching time can be polynomial ($O(n^c)$ where c is the number of problematic repetitions). For example a*b* is not a problem because a* and b* match different things and a*_a* is not a problem because the repetitions are separated by a '_' and can't match that '_'. However, a*a* and .*_.* have quadratic runtime. If the regex is not anchored to the beginning of the string, quadratic runtime is especially hard to avoid because whenever a match fails, the regex engine will try again starting at the next index. This means that any unbounded repetition, if it's followed by a pattern that can fail, can cause quadratic runtime on some inputs. For example str.split(/\s*,/) will run in quadratic time on strings that consist entirely of spaces (or at least contain large sequences of spaces, not followed by a comma). In order to rewrite your regular expression without these patterns, consider the following strategies: If applicable, define a maximum number of expected repetitions using the bounded quantifiers, like {1,5} instead of + for instance. Refactor nested quantifiers to limit the number of way the inner group can be matched by the outer quantifier, for instance this nested quantifier situation (ba+)+ doesn't cause performance issues, indeed, the inner group can be matched only if there exists exactly one b char per repetition of the group. Optimize regular expressions by emulating possessive quantifiers and atomic grouping. Use negated character classes instead of . to exclude separators where applicable. For example the quadratic regex .*_.* can be made linear by changing it to [^_]*_.* Sometimes it's not possible to rewrite the regex to be linear while still matching what you want it to match. Especially when the regex is not anchored to the beginning of the string, for which it is quite hard to avoid quadratic runtimes. In those cases consider the following approaches: Solve the problem without regular expressions Use an alternative non-backtracking regex implementations such as Google's RE2 or node-re2. Use multiple passes. This could mean pre- and/or post-processing the string manually before/after applying the regular expression to it or using multiple regular expressions. One example of this would be to replace str.split(/\s*,\s*/) with str.split(",") and then trimming the spaces from the strings as a second step. It is often possible to make the regex infallible by making all the parts that

could fail optional, which will prevent backtracking. Of course this means that you'll accept more strings than intended, but this can be handled by using capturing groups to check whether the optional parts were matched or not and then ignoring the match if they weren't. For example the regex x*y could be replaced with x*(y)? and then the call to str.match(regex) could be replaced with matched = str.match(regex) and matched[1] !== undefined. Compliant Solution Possessive quantifiers do not keep backtracking positions, thus can be used, if possible, to avoid performance issues. Unfortunately, they are not supported in JavaScript, but one can still mimick them using lookahead assertions and backreferences: /((?=(a+))\2)+$/.test(

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaa!"

); // Compliant

See OWASP - Top 10 2017 Category A1 - Injection CWE - CWE-400 - Uncontrolled Resource Consumption CWE - CWE-1333 - Inefficient Regular Expression Complexity owasp.org - OWASP Regular expression Denial of Service - ReDoS stackstatus.net(archived) - Outage Postmortem - July 20, 2016 regular-expressions.info - Runaway Regular Expressions: Catastrophic Backtracking docs.microsoft.com - Backtracking with Nested Optional Quantifiers

- **Root Cause:** Most of the regular expression engines use backtracking to try all possible execution paths of the regular expression when evaluating an input, in some cases it can cause performance issues, called catastrophic backtracking situations. In the worst case, the complexity of the regular expression is exponential in the size of the input, this means that a small carefully-crafted input (like 20 chars) can trigger catastrophic backtracking and cause a denial of service of the application. Super-linear regex complexity can lead to the same impact too with, in this case, a large carefully-crafted input (thousands chars). This rule determines the runtime complexity of a regular expression and informs you if it is not linear.

- This image runs with "root" or "containerAdministrator" as the default user. Make sure it is safe here.

- **Vulnerability Probability:** MEDIUM

- **Count:** 3

- **Locations:** .devcontainer/Dockerfile: 1 | api/Dockerfile: 34 | docker/couchbase-server/Dockerfile: 1

- **How to Fix:** Recommended Secure Coding Practices In the Dockerfile: Create a new default user and use it with the USER statement. Some container maintainers create a specific user to be used without explicitly setting it as default, such as postgresql or zookeeper. It is recommended to use these users instead of root. On Windows containers, the ContainerUser is available for this purpose. Or, at launch time: Use the user argument when calling Docker or in the docker-compose file. Add fine-grained Linux capabilities to perform specific actions that require root privileges. If this image

is already explicitly set to launch with a non-privileged user, you can add it to the safe images list rule property of your SonarQube instance, without the tag. Compliant Solution For Linux-based images and scratch-based images that untar a Linux distribution: FROM alpine

RUN addgroup -S nonroot \

&& adduser -S nonroot -G nonroot

USER nonroot

ENTRYPOINT ["id"]

For Windows-based images, you can use ContainerUser or create a new user: FROM mcr.microsoft.com/windows/servercore:ltsc2019

RUN net user /add nonroot

USER nonroot

For multi-stage builds, the non-root user should be on the last stage: FROM alpine as builder

COPY Makefile ./src /

RUN make build

FROM alpine as runtime

RUN addgroup -S nonroot \

&& adduser -S nonroot -G nonroot

COPY --from=builder bin/production /app

USER nonroot

ENTRYPOINT ["/app/production"]

For images that use scratch as their base, it is not possible to add non-privileged users by default. To do this, add an additional build stage to add the group and user, and later copy /etc/passwd. Here is an example that uses adduser in the first stage to generate a user and add it to the /etc/passwd file. In the next stage, this user is added by copying that file over from the previous stage: FROM alpine:latest as security_provider

RUN addgroup -S nonroot \

&& adduser -S nonroot -G nonroot

FROM scratch as production

COPY --from=security_provider /etc/passwd /etc/passwd

USER nonroot

COPY production_binary /app

ENTRYPOINT ["/app/production_binary"]

See CWE - CWE-284 - Improper Access Control nginxinc/nginx-unprivileged: Example of a non-root container by default Microsoft docs, When to use ContainerAdmin and ContainerUser user accounts

- **Root Cause:** Running containers as a privileged user weakens their runtime security, allowing any user whose code runs on the container to perform administrative actions. In Linux containers, the privileged user is usually named root. In Windows containers, the equivalent is ContainerAdministrator. A malicious user can run code on a system either thanks to actions that could be deemed legitimate - depending on internal business logic or operational management shells - or thanks to malicious actions. For example, with arbitrary code execution after exploiting a service that the container hosts. Suppose the container is not hardened to prevent using a shell, interpreter, or Linux capabilities. In this case, the malicious user can read and exfiltrate any file (including Docker volumes), open new network connections, install malicious software, or, worse, break out of the

container's isolation context by exploiting other components. This means giving the possibility to attackers to steal important infrastructure files, intellectual property, or personal data. Depending on the infrastructure's resilience, attackers may then extend their attack to other services, such as Kubernetes clusters or cloud providers, in order to maximize their reach.

- Make sure that using this pseudorandom number generator is safe here.

- **Vulnerability Probability:** MEDIUM

- **Count:** 18

- **Locations:**   api/core/helper/moderation.py: 34 |
  api/core/model_runtime/model_providers/volcengine_maas/legacy/volc_sdk/common.py: 47 |
  api/core/tools/provider/builtin/azuredalle/tools/dalle3.py: 82 |
  api/core/tools/provider/builtin/baidu_translate/tools/fieldtranslate.py: 47 |
  api/core/tools/provider/builtin/baidu_translate/tools/language.py: 36 |
  api/core/tools/provider/builtin/baidu_translate/tools/translate.py: 42 |
  api/core/tools/provider/builtin/cogview/tools/cogview3.py: 92 |
  api/core/tools/provider/builtin/comfyui/tools/comfyui_client.py: 82 |
  api/core/tools/provider/builtin/comfyui/tools/comfyui_client.py: 84 |
  api/core/tools/provider/builtin/comfyui/tools/comfyui_stable_diffusion.py: 286 |
  api/core/tools/provider/builtin/dalle/tools/dalle3.py: 114 |
  api/core/workflow/nodes/http_request/executor.py: 394 | api/libs/helper.py: 176 |
  api/services/account_service.py: 260 | api/services/account_service.py: 409 |
  api/services/account_service.py: 441 | api/services/dataset_service.py: 831 |
  api/tests/unit_tests/core/helper/test_ssrf_proxy.py: 37

- **Root Cause:** PRNGs are algorithms that produce sequences of numbers that only approximate true randomness. While they are suitable for applications like simulations or modeling, they are not appropriate for security-sensitive contexts because their outputs can be predictable if the internal state is known. In contrast, cryptographically secure pseudorandom number generators (CSPRNGs) are designed to be secure against prediction attacks. CSPRNGs use cryptographic algorithms to ensure that the generated sequences are not only random but also unpredictable, even if part of the sequence or the internal state becomes known. This unpredictability is crucial for security-related tasks such as generating encryption keys, tokens, or any other values that must remain confidential and resistant to guessing attacks. For example, the use of non-cryptographic PRNGs has led to vulnerabilities such as: CVE-2013-6386 CVE-2006-3419 CVE-2008-4102 When software generates predictable values in a context requiring unpredictability, it may be possible for an attacker to guess the next value that will be generated, and use this guess to impersonate another user or access sensitive information. Therefore, it is critical to use CSPRNGs in any security-sensitive application to ensure the robustness and security of the system.

- **How to Fix:** Recommended Secure Coding Practices Only use random number generators which are recommended by OWASP or any other trusted organization. Use the generated random values only once. You should not expose the generated random value. If you have to store it, make sure that the database or file is secure. See OWASP - Secure Random Number Generation Cheat Sheet OWASP - Top 10 2021 Category A2 - Cryptographic Failures OWASP - Top 10 2017 Category A3 - Sensitive Data Exposure OWASP - Mobile AppSec Verification Standard - Cryptography Requirements OWASP - Mobile Top 10 2016 Category M5 - Insufficient Cryptography CWE - CWE-338 - Use of Cryptographically Weak Pseudo-Random Number Generator (PRNG) CWE - CWE-330 - Use of Insufficiently Random Values CWE - CWE-326 - Inadequate Encryption Strength CWE - CWE-1241 - Use of Predictable Algorithm in Random Number Generator Derived from FindSecBugs rule Predictable Pseudo Random Number Generator

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- "password" detected here, review this potentially hard-coded credential.

- **Vulnerability Probability:** HIGH

- **Count:** 8

- **Locations:** api/libs/password.py: 6 | api/tests/integration_tests/vdb/elasticsearch/test_elasticsearch.py: 14 | api/tests/integration_tests/vdb/milvus/test_milvus.py: 17 | api/tests/integration_tests/vdb/oceanbase/test_oceanbase.py: 26 | api/tests/integration_tests/vdb/oracle/test_oraclevector.py: 19 | api/tests/integration_tests/vdb/pgvecto_rs/test_pgvecto_rs.py: 18 | api/tests/integration_tests/vdb/pgvector/test_pgvector.py: 18 | api/tests/unit_tests/core/rag/datasource/vdb/milvus/test_milvus.py: 8

- **How to Fix:** Recommended Secure Coding Practices Store the credentials in a configuration file that is not pushed to the code repository. Store the credentials in a database. Use your cloud provider's service for managing secrets. If a password has been disclosed through the source code: change it. Compliant Solution import os
username = os.getenv("username") # Compliant
password = os.getenv("password") # Compliant
usernamePassword = 'user=%s&password=%s' % (username, password) # Compliant{code}
See OWASP - Top 10 2021 Category A7 - Identification and Authentication Failures OWASP - Top 10 2017 Category A2 - Broken Authentication CWE - CWE-798 - Use of Hard-coded Credentials CWE - CWE-259 - Use of Hard-coded Password Derived from FindSecBugs rule Hard Coded Password

- **Root Cause:** Because it is easy to extract strings from an application source code or binary, credentials should not be hard-coded. This is particularly true for applications that are distributed or that are open-source. In the past, it has led to the following vulnerabilities: CVE-2019-13466 CVE-2018-15389 Credentials should be stored outside of the code in a configuration file, a database, or a management service for secrets. This rule flags instances of hard-coded credentials used in database and LDAP connections. It looks for hard-coded credentials in connection strings,

and for variable names that match any of the patterns from the provided list.

- "token" detected here, make sure this is not a hard-coded secret.

- **Vulnerability Probability:** HIGH

- **Count:** 4

- **Locations:** api/tests/integration_tests/vdb/upstash/test_upstash_vector.py: 14 |
  api/tests/integration_tests/vdb/weaviate/test_weaviate.py: 16 |
  api/tests/unit_tests/services/workflow/test_workflow_converter.py: 75 |
  api/tests/unit_tests/services/workflow/test_workflow_converter.py: 136

- **Root Cause:** Because it is easy to extract strings from an application source code or binary, secrets should not be hard-coded. This is particularly true for applications that are distributed or that are open-source. In the past, it has led to the following vulnerabilities: CVE-2022-25510 CVE-2021-42635 Secrets should be stored outside of the source code in a configuration file or a management service for secrets. This rule detects variables/fields having a name matching a list of words (secret, token, credential, auth, api[_.-]?key) being assigned a pseudorandom hard-coded value. The pseudorandomness of the hard-coded value is based on its entropy and the probability to be human-readable. The randomness sensibility can be adjusted if needed. Lower values will detect less random values, raising potentially more false positives.

- **How to Fix:** Recommended Secure Coding Practices Store the secret in a configuration file that is not pushed to the code repository. Use your cloud provider's service for managing secrets. If a secret has been disclosed through the source code: revoke it and create a new one. Compliant Solution Using AWS Secrets Manager: import boto3
  import logging
  SECRET_NAME = "MY_API_KEY"
  client = boto3.client("secretsmanager")
  secret = client.get_secret_value(SecretId=SECRET_NAME)
  def send_api_request(data):
  headers = {
  "Authorization ": f"Bearer {secret}"
  }
  return requests.post("https://api.example.com", headers=headers, data=data)
  Using Azure Key Vault Secret: import os
  from azure.keyvault.secrets import SecretClient
  from azure.identity import DefaultAzureCredential
  SECRET_NAME = "MY_API_KEY"
  keyVaultName = os.environ["KEY_VAULT_NAME"]
  KVUri = f"https://{keyVaultName}.vault.azure.net"
  credential = DefaultAzureCredential()

```
client = SecretClient(vault_url=KVUri, credential=credential)
secret = client.get_secret(SECRET_NAME)
def send_api_request(data):
headers = {
"Authorization ": f"Bearer {secret.value}"
}
return requests.post("https://api.example.com", headers=headers, data=data)
```
See OWASP - Top 10 2021 Category A7 - Identification and Authentication Failures OWASP - Top 10 2017 Category A2 - Broken Authentication CWE - CWE-798 - Use of Hard-coded Credentials AWS Secrets Manager - Code Examples Azure Key Vault - Quickstart

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- "max_tokensTip" detected here, make sure this is not a hard-coded secret.

- **Vulnerability Probability:** HIGH

- **Count:** 9

- **Locations:** web/i18n/hi-IN/common.ts: 115 | web/i18n/ja-JP/common.ts: 115 | web/i18n/ko-KR/common.ts: 107 | web/i18n/ru-RU/common.ts: 115 | web/i18n/th-TH/common.ts: 110 | web/i18n/uk-UA/common.ts: 111 | web/i18n/vi-VN/common.ts: 111 | web/i18n/zh-Hans/common.ts: 115 | web/i18n/zh-Hant/common.ts: 111

- **Root Cause:** Because it is easy to extract strings from an application source code or binary, secrets should not be hard-coded. This is particularly true for applications that are distributed or that are open-source. In the past, it has led to the following vulnerabilities: CVE-2022-25510 CVE-2021-42635 Secrets should be stored outside of the source code in a configuration file or a management service for secrets. This rule detects variables/fields having a name matching a list of words (secret, token, credential, auth, api[_.-]?key) being assigned a pseudorandom hard-coded value. The pseudorandomness of the hard-coded value is based on its entropy and the probability to be human-readable. The randomness sensibility can be adjusted if needed. Lower values will detect less random values, raising potentially more false positives.

- **How to Fix:** Recommended Secure Coding Practices Store the secret in a configuration file that is not pushed to the code repository. Use your cloud provider's service for managing secrets. If a secret has been disclosed through the source code: revoke it and create a new one. Compliant Solution const API_KEY = process.env.API_KEY;
```
const response = await fetch("https://api.my-service/v1/users", {
headers: {
Authorization: `Bearer ${API_KEY}`,
},
});
```
See OWASP - Top 10 2021 Category A7 - Identification and Authentication Failures OWASP - Top 10 2017 Category A2 - Broken Authentication CWE - CWE-798 - Use of Hard-coded Credentials MSC -

MSC03-J - Never hard code sensitive information

- Make sure this debug feature is deactivated before delivering the code in production.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** api/tests/integration_tests/tools/__mock_server/openapi_todo.py: 40

- **How to Fix:** Recommended Secure Coding Practices Do not enable debugging features on production servers or applications distributed to end users. Compliant Solution from django.conf import settings
  settings.configure(DEBUG=False)
  settings.configure(DEBUG_PROPAGATE_EXCEPTIONS=False)
  def custom_config(config):
  settings.configure(default_settings=config, DEBUG=False)
  DEBUG = False
  DEBUG_PROPAGATE_EXCEPTIONS = False
  from flask import Flask
  app = Flask()
  app.debug = False
  app.run(debug=False)
  See OWASP - Top 10 2021 Category A5 - Security Misconfiguration OWASP - Top 10 2017 Category A3 - Sensitive Data Exposure CWE - CWE-489 - Active Debug Code CWE - CWE-215 - Information Exposure Through Debug Information

- **Root Cause:** Development tools and frameworks usually have options to make debugging easier for developers. Although these features are useful during development, they should never be enabled for applications deployed in production. Debug instructions or error messages can leak detailed information about the system, like the application's path or file names.

- Make sure automatically installing recommended packages is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** api/Dockerfile: 60

- **How to Fix:** Recommended Secure Coding Practices Avoid installing package dependencies that are not strictly

required. Compliant Solution FROM ubuntu:22.04

RUN apt --no-install-recommends install -y build-essential

RUN apt-get --no-install-recommends install -y build-essential

RUN aptitude --without-recommends install -y build-essential

See Debian Documentation - Binary Dependencies Ubuntu Blog - Container size reduction

- **Root Cause:** Installing recommended packages automatically can lead to vulnerabilities in the Docker image. Potentially unnecessary packages are installed via a known Debian package manager. These packages will increase the attack surface of the created container as they might contain unidentified vulnerabilities or malicious code. Those packages could be used as part of a broader supply chain attack. In general, the more packages are installed in a container, the weaker its security posture is. Depending on the introduced vulnerabilities, a malicious actor accessing such a container could use these for privilege escalation. Removing unused packages can also significantly reduce your Docker image size. To be secure, remove unused packages where possible and ensure images are subject to routine vulnerability scans.

- Using http protocol is insecure. Use https instead

- **Vulnerability Probability:** LOW

- **Count:** 55

- **Locations:** api/configs/feature/__init__.py: 73 | api/core/helper/ssrf_proxy.py: 16 | api/core/model_runtime/model_providers/baichuan/text_embedding/text_embedding.py: 36 | api/core/model_runtime/model_providers/huggingface_tei/tei_helper.py: 62 | api/core/model_runtime/model_providers/xinference/xinference_helper.py: 86 | api/core/ops/entities/config_entity.py: 34 | api/core/ops/entities/config_entity.py: 83 | api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 58 | api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 58 | api/core/rag/extractor/word_extractor.py: 218 | api/core/tools/provider/builtin/hap/tools/add_worksheet_record.py: 30 | api/core/tools/provider/builtin/hap/tools/delete_worksheet_record.py: 29 | api/core/tools/provider/builtin/hap/tools/get_worksheet_fields.py: 27 | api/core/tools/provider/builtin/hap/tools/get_worksheet_pivot_data.py: 38 | api/core/tools/provider/builtin/hap/tools/list_worksheet_records.py: 30 | api/core/tools/provider/builtin/hap/tools/list_worksheets.py: 24 | api/core/tools/provider/builtin/hap/tools/update_worksheet_record.py: 33 | api/core/tools/provider/builtin/spark/tools/spark_img_generation.py: 84 | api/core/tools/provider/builtin/tianditu/tools/geocoder.py: 19 | api/core/tools/provider/builtin/tianditu/tools/poisearch.py: 19 | api/core/tools/provider/builtin/tianditu/tools/poisearch.py: 20 | api/core/tools/provider/builtin/tianditu/tools/staticmap.py: 20 | api/core/tools/provider/builtin/tianditu/tools/staticmap.py: 21 |

api/core/workflow/nodes/http_request/executor.py: 114 |

api/services/external_knowledge_service.py: 75 |

api/tests/integration_tests/model_runtime/vessl_ai/test_llm.py: 34 |

api/tests/integration_tests/tools/api_tool/test_api_tool.py: 6 |

api/tests/integration_tests/vdb/lindorm/test_lindorm.py: 10 |

api/tests/integration_tests/workflow/nodes/__mock/http.py: 22 |

api/tests/integration_tests/workflow/nodes/test_http.py: 73 |

api/tests/integration_tests/workflow/nodes/test_http.py: 106 |

api/tests/integration_tests/workflow/nodes/test_http.py: 135 |

api/tests/integration_tests/workflow/nodes/test_http.py: 168 |

api/tests/integration_tests/workflow/nodes/test_http.py: 203 |

api/tests/integration_tests/workflow/nodes/test_http.py: 244 |

api/tests/integration_tests/workflow/nodes/test_http.py: 290 |

api/tests/integration_tests/workflow/nodes/test_http.py: 339 |

api/tests/integration_tests/workflow/nodes/test_http.py: 371 |

api/tests/integration_tests/workflow/nodes/test_http.py: 399 |

api/tests/integration_tests/workflow/nodes/test_http.py: 412 |

api/tests/integration_tests/workflow/nodes/test_http.py: 417 |

api/tests/integration_tests/workflow/nodes/test_http.py: 430 |

api/tests/unit_tests/configs/test_dify_config.py: 101 |

api/tests/unit_tests/configs/test_dify_config.py: 102 |

api/tests/unit_tests/core/helper/test_ssrf_proxy.py: 15 |

api/tests/unit_tests/core/helper/test_ssrf_proxy.py: 28 |

api/tests/unit_tests/core/helper/test_ssrf_proxy.py: 48 |

api/tests/unit_tests/core/workflow/nodes/http_request/test_http_request_executor.py: 275 |

api/tests/unit_tests/core/workflow/nodes/http_request/test_http_request_executor.py: 305 |

api/tests/unit_tests/core/workflow/nodes/http_request/test_http_request_node.py: 25 |

api/tests/unit_tests/core/workflow/nodes/http_request/test_http_request_node.py: 109 |

api/tests/unit_tests/core/workflow/nodes/test_continue_on_error.py: 66 |

api/tests/unit_tests/libs/test_yarl.py: 10 | api/tests/unit_tests/libs/test_yarl.py: 11 |

api/tests/unit_tests/libs/test_yarl.py: 12

- **Root Cause:** Clear-text protocols such as ftp, telnet, or http lack encryption of transported data, as well as the capability to build an authenticated connection. It means that an attacker able to sniff traffic from the network can read, modify, or corrupt the transported content. These protocols are not secure as they expose applications to an extensive range of risks: sensitive data exposure traffic redirected to a malicious endpoint malware-infected software update or installer execution of client-side code corruption of critical information Even in the context of isolated networks like offline environments or segmented cloud environments, the insider threat exists. Thus, attacks involving communications being sniffed or tampered with can still happen. For example, attackers could successfully compromise prior security layers by: bypassing isolation mechanisms compromising a component of the network getting the credentials of an internal IAM account (either from a service account or an actual person) In such cases, encrypting communications would decrease the chances of attackers to successfully leak data or steal credentials from other network components. By layering various security practices (segmentation and encryption, for example),

the application will follow the defense-in-depth principle. Note that using the http protocol is being deprecated by major web browsers. In the past, it has led to the following vulnerabilities: CVE-2019-6169 CVE-2019-12327 CVE-2019-11065 Exceptions No issue is reported for the following cases because they are not considered sensitive: Insecure protocol scheme followed by loopback addresses like 127.0.0.1 or localhost.

- **How to Fix:** Recommended Secure Coding Practices Make application data transit over a secure, authenticated and encrypted protocol like TLS or SSH. Here are a few alternatives to the most common clear-text protocols: Use ssh as an alternative to telnet. Use sftp, scp, or ftps instead of ftp. Use https instead of http. Use SMTP over SSL/TLS or SMTP with STARTTLS instead of clear-text SMTP. Enable encryption of cloud components communications whenever it is possible. Configure your application to block mixed content when rendering web pages. If available, enforce OS-level deactivation of all clear-text traffic. It is recommended to secure all transport channels, even on local networks, as it can take a single non-secure connection to compromise an entire application or system. Compliant Solution url = "https://example.com"

  url = "sftp://anonymous@example.com"

  url = "ssh://anonymous@example.com"

  import ftplib

  cnx = ftplib.FTP_TLS("ftp.example.com")

  import smtplib

  smtp = smtplib.SMTP("smtp.example.com", port=587)

  smtp.starttls(context=context)

  smtp_ssl = smtplib.SMTP_SSL("smtp.gmail.com", port=465)

  For aws_cdk.aws_elasticloadbalancingv2.ApplicationLoadBalancer: from aws_cdk import (

  aws_elasticloadbalancingv2 as elbv2,

)

  lb = elbv2.ApplicationLoadBalancer(

  self,

  "LB",

  vpc=vpc,

  internet_facing=True

)

  lb.add_listener(

  "Listener-https-explicit",

  protocol=elbv2.ApplicationProtocol.HTTPS,

  certificates=[elbv2.ListenerCertificate("certificateARN")],

  port=443,

  open=True

)

  lb.add_listener(

  "Listener-https-implicit",

  certificates=[elbv2.ListenerCertificate("certificateARN")],

  port=8443,

  open=True

)

```
For aws_cdk.aws_elasticloadbalancingv2.ApplicationListener: from aws_cdk import (
aws_elasticloadbalancingv2 as elbv2,
)
elbv2.ApplicationListener(
self,
"listener-https-explicit-const",
load_balancer=lb,
protocol=elbv2.ApplicationProtocol.HTTPS,
certificates=[elbv2.ListenerCertificate("certificateARN")],
port=444,
open=True
)
For aws_cdk.aws_elasticloadbalancingv2.NetworkLoadBalancer: from aws_cdk import (
aws_elasticloadbalancingv2 as elbv2,
)
lb = elbv2.NetworkLoadBalancer(
self,
"LB",
vpc=vpc,
internet_facing=True
)
lb.add_listener(
"Listener-TLS-explicit",
protocol=elbv2.Protocol.TLS,
certificates=[elbv2.ListenerCertificate("certificateARN")],
port=443
)
lb.add_listener(
"Listener-TLS-implicit",
certificates=[elbv2.ListenerCertificate("certificateARN")],
port=1024
)
For aws_cdk.aws_elasticloadbalancingv2.NetworkListener: from aws_cdk import (
aws_elasticloadbalancingv2 as elbv2,
)
elbv2.NetworkListener(
self,
"Listener-TLS-explicit",
protocol=elbv2.Protocol.TLS,
certificates=[elbv2.ListenerCertificate("certificateARN")],
port=443,
load_balancer=lb
)
For aws_cdk.aws_elasticloadbalancingv2.CfnListener: from aws_cdk import (
aws_elasticloadbalancingv2 as elbv2,
```

```
)
elbv2.CfnListener(
self,
"listener-https",
default_actions=[application_default_action],
load_balancer_arn=lb.load_balancer_arn,
protocol="HTTPS",
port=443,
certificates=[elbv2.CfnListener.CertificateProperty(
certificate_arn="certificateARN"
)]
)
elbv2.CfnListener(
self,
"listener-tls",
default_actions=[network_default_action],
load_balancer_arn=lb.load_balancer_arn,
protocol="TLS",
port=1001,
certificates=[elbv2.CfnListener.CertificateProperty(
certificate_arn="certificateARN"
)]
)
For aws_cdk.aws_elasticloadbalancing.LoadBalancerListener: from aws_cdk import (
aws_elasticloadbalancing as elb,
)
elb.LoadBalancerListener(
external_port=10043,
external_protocol=elb.LoadBalancingProtocol.SSL,
internal_port=10043,
ssl_certificate_arn="certificateARN"
)
elb.LoadBalancerListener(
external_port=10443,
external_protocol=elb.LoadBalancingProtocol.HTTPS,
internal_port=10443,
ssl_certificate_arn="certificateARN"
)
For aws_cdk.aws_elasticloadbalancing.CfnLoadBalancer: from aws_cdk import (
aws_elasticloadbalancing as elb,
)
elb.CfnLoadBalancer(
self,
"elb-ssl",
listeners=[
```

```
elb.CfnLoadBalancer.ListenersProperty(
instance_port="10043",
load_balancer_port="10043",
protocol="ssl",
ssl_certificate_id=CERTIFICATE_ARN
)
],
subnets=vpc.select_subnets().subnet_ids
)
elb.CfnLoadBalancer(
self,
"elb-https-dict",
listeners=[
{
"instancePort":"10443",
"loadBalancerPort":"10443",
"protocol":"https",
"sslCertificateId":CERTIFICATE_ARN
}
],
subnets=vpc.select_subnets().subnet_ids
)
For aws_cdk.aws_elasticloadbalancing.LoadBalancer: from aws_cdk import (
aws_elasticloadbalancing as elb,
)
elb.LoadBalancer(
self,
"elb-ssl",
vpc=vpc,
listeners=[
{
"externalPort":10044,
"externalProtocol":elb.LoadBalancingProtocol.SSL,
"internalPort":10044,
"sslCertificateArn":"certificateARN"
},
{
"externalPort":10444,
"externalProtocol":elb.LoadBalancingProtocol.HTTPS,
"internalPort":10444,
"sslCertificateArn":"certificateARN"
}
]
)
loadBalancer = elb.LoadBalancer(
```

```
self,
"elb-multi-listener",
vpc=vpc
)
loadBalancer.add_listener(
external_port=10045,
external_protocol=elb.LoadBalancingProtocol.SSL,
internal_port=10045,
ssl_certificate_arn="certificateARN"
)
loadBalancer.add_listener(
external_port=10445,
external_protocol=elb.LoadBalancingProtocol.HTTPS,
internal_port=10445,
ssl_certificate_arn="certificateARN"
)
For aws_cdk.aws_elasticache.CfnReplicationGroup: from aws_cdk import (
aws_elasticache as elasticache
)
elasticache.CfnReplicationGroup(
self,
"encrypted-explicit",
replication_group_description="a test replication group",
automatic_failover_enabled=False,
transit_encryption_enabled=True,
cache_subnet_group_name="test",
engine="redis",
engine_version="3.2.6",
num_cache_clusters=1,
cache_node_type="cache.t2.micro"
)
For aws_cdk.aws_kinesis.CfnStream: from aws_cdk import (
aws_kinesis as kinesis,
)
kinesis.CfnStream(
self,
"cfnstream-explicit-encrytped",
shard_count=1,
stream_encryption=kinesis.CfnStream.StreamEncryptionProperty(
encryption_type="KMS",
key_id="alias/aws/kinesis"
)
)
stream = kinesis.CfnStream(
self,
```

```
"cfnstream-explicit-encrytped-dict",
shard_count=1,
stream_encryption={
"encryptionType": "KMS",
"keyId": "alias/aws/kinesis"
}
)
```

For aws_cdk.aws_kinesis.Stream: from aws_cdk import (

```
aws_kinesis as kinesis,
aws_kms as kms
)
stream = kinesis.Stream( # Encryption is enabled by default for Streams
self,
"stream-implicit-encrypted",
shard_count=1
)
stream = kinesis.Stream(
self,
"stream-explicit-encrypted-managed",
shard_count=1,
encryption=kinesis.StreamEncryption.MANAGED
)
key = kms.Key(self, "managed_key")
stream = kinesis.Stream(
self,
"stream-explicit-encrypted-selfmanaged",
shard_count=1,
encryption=kinesis.StreamEncryption.KMS,
encryption_key=key
)
```

See Documentation AWS Documentation - Listeners for your Application Load Balancers AWS Documentation - Stream Encryption Articles & blog posts Google - Moving towards more secure web Mozilla - Deprecating non secure http Standards OWASP - Top 10 2017 Category A3 - Sensitive Data Exposure OWASP - Top 10 2021 Category A2 - Cryptographic Failures OWASP - Mobile AppSec Verification Standard - Network Communication Requirements OWASP - Mobile Top 10 2016 Category M3 - Insecure Communication CWE - CWE-200 - Exposure of Sensitive Information to an Unauthorized Actor CWE - CWE-319 - Cleartext Transmission of Sensitive Information STIG Viewer - Application Security and Development: V-222397 - The application must implement cryptographic mechanisms to protect the integrity of remote access sessions. STIG Viewer - Application Security and Development: V-222534 - Service-Oriented Applications handling non-releasable data must authenticate endpoint devices via mutual SSL/TLS. STIG Viewer - Application Security and Development: V-222562 - Applications used for non-local maintenance must implement cryptographic mechanisms to protect the integrity of maintenance and diagnostic communications. STIG Viewer - Application Security and Development: V-222563 - Applications used for non-local maintenance must implement cryptographic mechanisms to

protect the confidentiality of maintenance and diagnostic communications. STIG Viewer - Application Security and Development: V-222577 - The application must not expose session IDs. STIG Viewer - Application Security and Development: V-222596 - The application must protect the confidentiality and integrity of transmitted information. STIG Viewer - Application Security and Development: V-222597 - The application must implement cryptographic mechanisms to prevent unauthorized disclosure of information and/or detect changes to information during transmission. STIG Viewer - Application Security and Development: V-222598 - The application must maintain the confidentiality and integrity of information during preparation for transmission. STIG Viewer - Application Security and Development: V-222599 - The application must maintain the confidentiality and integrity of information during reception.

- Make sure the regex used here, which is vulnerable to polynomial runtime due to backtracking, cannot lead to denial of service.

- **Vulnerability Probability:** MEDIUM

- **Count:** 7

- **Locations:** api/core/indexing_runner.py: 505 | api/core/llm_generator/llm_generator.py: 55 | api/core/llm_generator/llm_generator.py: 242 | api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 140 | api/core/rag/extractor/markdown_extractor.py: 98 | api/core/rag/index_processor/processor/qa_index_processor.py: 190 | api/models/model.py: 845

- **How to Fix:** Recommended Secure Coding Practices To avoid catastrophic backtracking situations, make sure that none of the following conditions apply to your regular expression. In all of the following cases, catastrophic backtracking can only happen if the problematic part of the regex is followed by a pattern that can fail, causing the backtracking to actually happen. Note that when performing a full match (e.g. using re.fullmatch), the end of the regex counts as a pattern that can fail because it will only succeed when the end of the string is reached. If you have a non-possessive repetition r* or r*?, such that the regex r could produce different possible matches (of possibly different lengths) on the same input, the worst case matching time can be exponential. This can be the case if r contains optional parts, alternations or additional repetitions (but not if the repetition is written in such a way that there's only one way to match it). If you have multiple non-possessive repetitions that can match the same contents and are consecutive or are only separated by an optional separator or a separator that can be matched by both of the repetitions, the worst case matching time can be polynomial ($O(n^c)$) where c is the number of problematic repetitions). For example a*b* is not a problem because a* and b* match different things and a*_a* is not a problem because the repetitions are separated by a '_' and can't match that '_'. However, a*a* and .*_.* have quadratic runtime. If you're performing a partial match (such as by using re.search, re.split, re.findall etc.) and the regex is not anchored to the beginning of the string, quadratic runtime is especially hard to avoid because whenever a match fails, the regex engine will try again starting at the next index. This means that any unbounded repetition (even a possessive one), if it's followed

by a pattern that can fail, can cause quadratic runtime on some inputs. For example re.split(r"\s*,", my_str) will run in quadratic time on strings that consist entirely of spaces (or at least contain large sequences of spaces, not followed by a comma). In order to rewrite your regular expression without these patterns, consider the following strategies: If applicable, define a maximum number of expected repetitions using the bounded quantifiers, like {1,5} instead of + for instance. Refactor nested quantifiers to limit the number of way the inner group can be matched by the outer quantifier, for instance this nested quantifier situation (ba+)+ doesn't cause performance issues, indeed, the inner group can be matched only if there exists exactly one b char per repetition of the group. Optimize regular expressions with possessive quantifiers and atomic grouping (available since Python 3.11). Use negated character classes instead of . to exclude separators where applicable. For example the quadratic regex .*_.* can be made linear by changing it to [^_]*_.* Sometimes it's not possible to rewrite the regex to be linear while still matching what you want it to match. Especially when using partial matches, for which it is quite hard to avoid quadratic runtimes. In those cases consider the following approaches: Solve the problem without regular expressions Use an alternative non-backtracking regex implementations such as Google's RE2. Use multiple passes. This could mean pre- and/or post-processing the string manually before/after applying the regular expression to it or using multiple regular expressions. One example of this would be to replace re.split("\s*,\s*", my_str) with re.split(",", my_str) and then trimming the spaces from the strings as a second step. See OWASP - Top 10 2017 Category A1 - Injection CWE - CWE-400 - Uncontrolled Resource Consumption CWE - CWE-1333 - Inefficient Regular Expression Complexity owasp.org - OWASP Regular expression Denial of Service - ReDoS stackstatus.net(archived) - Outage Postmortem - July 20, 2016 regular-expressions.info - Runaway Regular Expressions: Catastrophic Backtracking docs.microsoft.com - Backtracking with Nested Optional Quantifiers

- **Root Cause:** Most of the regular expression engines use backtracking to try all possible execution paths of the regular expression when evaluating an input, in some cases it can cause performance issues, called catastrophic backtracking situations. In the worst case, the complexity of the regular expression is exponential in the size of the input, this means that a small carefully-crafted input (like 20 chars) can trigger catastrophic backtracking and cause a denial of service of the application. Super-linear regex complexity can lead to the same impact too with, in this case, a large carefully-crafted input (thousands chars). This rule determines the runtime complexity of a regular expression and informs you of the complexity if it is not linear.

- Make sure that this dynamic injection or execution of code is safe.

- **Vulnerability Probability:** MEDIUM

- **Count:** 2

- **Locations:** web/i18n/auto-gen-i18n.js: 55 | web/i18n/check-i18n.js: 29

- **How to Fix:** Recommended Secure Coding Practices Regarding the execution of unknown code, the best

solution is to not run code provided by an untrusted source. If you really need to do it, run the code in a sandboxed environment. Use jails, firewalls and whatever means your operating system and programming language provide (example: Security Managers in java, iframes and same-origin policy for javascript in a web browser). Do not try to create a blacklist of dangerous code. It is impossible to cover all attacks that way. Avoid using dynamic code APIs whenever possible. Hard-coded code is always safer. See OWASP - Top 10 2021 Category A3 - Injection OWASP - Top 10 2017 Category A1 - Injection CWE - CWE-95 - Improper Neutralization of Directives in Dynamically Evaluated Code ('Eval Injection')

- **Root Cause:** Executing code dynamically is security-sensitive. It has led in the past to the following vulnerabilities: CVE-2017-9807 CVE-2017-9802 Some APIs enable the execution of dynamic code by providing it as strings at runtime. These APIs might be useful in some very specific meta-programming use-cases. However most of the time their use is frowned upon as they also increase the risk of Injected Code. Such attacks can either run on the server or in the client (exemple: XSS attack) and have a huge impact on an application's security. This rule raises issues on calls to eval and Function constructor. This rule does not detect code injections. It only highlights the use of APIs which should be used sparingly and very carefully. The goal is to guide security code reviews. The rule also flags string literals starting with javascript: as the code passed in javascript: URLs is evaluated the same way as calls to eval or Function constructor. Exceptions This rule will not raise an issue when the argument of the eval or Function is a literal string as it is reasonably safe.

- Omitting "--ignore-scripts" can lead to the execution of shell scripts. Make sure it is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** web/Dockerfile: 22

- **How to Fix:** Recommended Secure Coding Practices Execution of third-party scripts should be disabled if not strictly necessary for dependencies to work correctly. Doing this will reduce the attack surface and block a well-known supply chain attack vector. Commands that are subject to this issue are: npm install, yarn install and yarn (yarn without an explicit command will execute install). Compliant Solution FROM node:latest

  RUN npm install --ignore-scripts

  FROM node:latest

  RUN yarn install --ignore-scripts

  See CWE - CWE-506 - Embedded Malicious Code CWE - CWE-829 - Inclusion of Functionality from Untrusted Control Sphere ESLint blog - Postmortem for Malicious Packages Published on July 12th, 2018

- **Root Cause:** When installing dependencies, package managers like npm will automatically execute shell scripts distributed along with the source code. Post-install scripts, for example, are a common way to execute malicious code at install time whenever a package is compromised.

- Make sure using this hardcoded IP address "8.8.8.8" is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** api/configs/remote_settings_sources/apollo/utils.py: 46

- **Root Cause:** Hardcoding IP addresses is security-sensitive. It has led in the past to the following vulnerabilities: CVE-2006-5901 CVE-2005-3725 Today's services have an ever-changing architecture due to their scaling and redundancy needs. It is a mistake to think that a service will always have the same IP address. When it does change, the hardcoded IP will have to be modified too. This will have an impact on the product development, delivery, and deployment: The developers will have to do a rapid fix every time this happens, instead of having an operation team change a configuration file. It misleads to use the same address in every environment (dev, sys, qa, prod). Last but not least it has an effect on application security. Attackers might be able to decompile the code and thereby discover a potentially sensitive address. They can perform a Denial of Service attack on the service, try to get access to the system, or try to spoof the IP address to bypass security checks. Such attacks can always be possible, but in the case of a hardcoded IP address solving the issue will take more time, which will increase an attack's impact. Exceptions No issue is reported for the following cases because they are not considered sensitive: Loopback addresses 127.0.0.0/8 in CIDR notation (from 127.0.0.0 to 127.255.255.255) Broadcast address 255.255.255.255 Non-routable address 0.0.0.0 Strings of the form 2.5.<number>.<number> as they often match Object Identifiers (OID) Addresses in the ranges 192.0.2.0/24, 198.51.100.0/24, 203.0.113.0/24, reserved for documentation purposes by RFC 5737 Addresses in the range 2001:db8::/32, reserved for documentation purposes by RFC 3849

- **How to Fix:** Recommended Secure Coding Practices Don't hard-code the IP address in the source code, instead make it configurable with environment variables, configuration files, or a similar approach. Alternatively, if confidentially is not required a domain name can be used since it allows to change the destination quickly without having to rebuild the software. Compliant Solution ip = config.get(section, ipAddress)
sock = socket.socket()
sock.bind((ip, 9090))
See OWASP - Top 10 2021 Category A1 - Broken Access Control OWASP - Top 10 2017 Category A3 - Sensitive Data Exposure

- Make sure that hashing data is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 10

- **Locations:** api/configs/remote_settings_sources/apollo/client.py: 181 |
  api/configs/remote_settings_sources/apollo/utils.py: 18 | api/controllers/inner_api/wraps.py: 52 |
  api/core/model_runtime/model_providers/tencent/speech2text/flash_recognizer.py: 125 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 362 |
  api/core/tools/provider/builtin/baidu_translate/_baidu_translate_tool_base.py: 11 |
  api/core/tools/provider/builtin/baidu_translate/tools/fieldtranslate.py: 78 |
  api/extensions/storage/baidu_obs_storage.py: 30 | api/libs/gmpy2_pkcs10aep_cipher.py: 119 |
  api/libs/gmpy2_pkcs10aep_cipher.py: 176

- **How to Fix:** Recommended Secure Coding Practices Safer alternatives, such as SHA-256, SHA-512, SHA-3 are
  recommended, and for password hashing, it's even better to use algorithms that do not compute
  too "quickly", like bcrypt, scrypt, argon2 or pbkdf2 because it slows down brute force attacks.
  Compliant Solution import hashlib
  m = hashlib.sha512() // Compliant
  See OWASP - Top 10 2021 Category A2 - Cryptographic Failures OWASP - Top 10 2017 Category A3
  - Sensitive Data Exposure OWASP - Top 10 2017 Category A6 - Security Misconfiguration OWASP -
  Mobile AppSec Verification Standard - Cryptography Requirements OWASP - Mobile Top 10 2016
  Category M5 - Insufficient Cryptography CWE - CWE-1240 - Use of a Risky Cryptographic
  Primitive

- **Root Cause:** Cryptographic hash algorithms such as MD2, MD4, MD5, MD6, HAVAL-128, HMAC-MD5, DSA
  (which uses SHA-1), RIPEMD, RIPEMD-128, RIPEMD-160, HMACRIPEMD160 and SHA-1 are no
  longer considered secure, because it is possible to have collisions (little computational effort is
  enough to find two or more different inputs that produce the same hash).

- Make sure that using clear-text protocols is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** api/Dockerfile: 55

- **Root Cause:** Clear-text protocols such as ftp, telnet, or http lack encryption of transported data, as well as the
  capability to build an authenticated connection. It means that an attacker able to sniff traffic from
  the network can read, modify, or corrupt the transported content. These protocols are not secure
  as they expose applications to an extensive range of risks: sensitive data exposure traffic redirected
  to a malicious endpoint malware-infected software update or installer execution of client-side
  code corruption of critical information Even in the context of isolated networks like offline

environments or segmented cloud environments, the insider threat exists. Thus, attacks involving communications being sniffed or tampered with can still happen. For example, attackers could successfully compromise prior security layers by: bypassing isolation mechanisms compromising a component of the network getting the credentials of an internal IAM account (either from a service account or an actual person) In such cases, encrypting communications would decrease the chances of attackers to successfully leak data or steal credentials from other network components. By layering various security practices (segmentation and encryption, for example), the application will follow the defense-in-depth principle. Note that using the http protocol is being deprecated by major web browsers. In the past, it has led to the following vulnerabilities: CVE-2019-6169 CVE-2019-12327 CVE-2019-11065

- **How to Fix:** Recommended Secure Coding Practices Make application data transit over a secure, authenticated and encrypted protocol like TLS or SSH. Here are a few alternatives to the most common clear-text protocols: Use sftp, scp, or ftps instead of ftp. Use https instead of http. It is recommended to secure all transport channels, even on local networks, as it can take a single non-secure connection to compromise an entire application or system. Compliant Solution RUN curl https://www.example.com/

  See Documentation AWS Documentation - Listeners for your Application Load Balancers AWS Documentation - Stream Encryption Articles & blog posts Google - Moving towards more secure web Mozilla - Deprecating non secure http Standards CWE - CWE-200 - Exposure of Sensitive Information to an Unauthorized Actor CWE - CWE-319 - Cleartext Transmission of Sensitive Information STIG Viewer - Application Security and Development: V-222397 - The application must implement cryptographic mechanisms to protect the integrity of remote access sessions. STIG Viewer - Application Security and Development: V-222534 - Service-Oriented Applications handling non-releasable data must authenticate endpoint devices via mutual SSL/TLS. STIG Viewer - Application Security and Development: V-222562 - Applications used for non-local maintenance must implement cryptographic mechanisms to protect the integrity of maintenance and diagnostic communications. STIG Viewer - Application Security and Development: V-222563 - Applications used for non-local maintenance must implement cryptographic mechanisms to protect the confidentiality of maintenance and diagnostic communications. STIG Viewer - Application Security and Development: V-222577 - The application must not expose session IDs. STIG Viewer - Application Security and Development: V-222596 - The application must protect the confidentiality and integrity of transmitted information. STIG Viewer - Application Security and Development: V-222597 - The application must implement cryptographic mechanisms to prevent unauthorized disclosure of information and/or detect changes to information during transmission. STIG Viewer - Application Security and Development: V-222598 - The application must maintain the confidentiality and integrity of information during preparation for transmission. STIG Viewer - Application Security and Development: V-222599 - The application must maintain the confidentiality and integrity of information during reception.

- Review this potentially hard-coded password.

- **Vulnerability Probability:** HIGH

- **Count:** 180

- **Locations:** web/i18n/de-DE/common.ts: 167 | web/i18n/de-DE/common.ts: 168 | web/i18n/de-DE/login.ts: 6 |
  web/i18n/de-DE/login.ts: 7 | web/i18n/de-DE/login.ts: 43 | web/i18n/de-DE/login.ts: 49 |
  web/i18n/de-DE/login.ts: 54 | web/i18n/de-DE/login.ts: 55 | web/i18n/de-DE/login.ts: 56 |
  web/i18n/en-US/common.ts: 174 | web/i18n/en-US/common.ts: 175 | web/i18n/en-US/login.ts: 6 |
  web/i18n/en-US/login.ts: 7 | web/i18n/en-US/login.ts: 49 | web/i18n/en-US/login.ts: 56 |
  web/i18n/en-US/login.ts: 61 | web/i18n/en-US/login.ts: 62 | web/i18n/en-US/login.ts: 63 |
  web/i18n/es-ES/common.ts: 171 | web/i18n/es-ES/common.ts: 172 | web/i18n/es-ES/login.ts: 6 |
  web/i18n/es-ES/login.ts: 7 | web/i18n/es-ES/login.ts: 44 | web/i18n/es-ES/login.ts: 50 |
  web/i18n/es-ES/login.ts: 55 | web/i18n/es-ES/login.ts: 56 | web/i18n/es-ES/login.ts: 57 |
  web/i18n/fa-IR/common.ts: 171 | web/i18n/fa-IR/common.ts: 172 | web/i18n/fa-IR/login.ts: 6 |
  web/i18n/fa-IR/login.ts: 7 | web/i18n/fa-IR/login.ts: 44 | web/i18n/fa-IR/login.ts: 50 |
  web/i18n/fa-IR/login.ts: 55 | web/i18n/fa-IR/login.ts: 56 | web/i18n/fa-IR/login.ts: 57 |
  web/i18n/fr-FR/common.ts: 167 | web/i18n/fr-FR/common.ts: 168 | web/i18n/fr-FR/login.ts: 6 |
  web/i18n/fr-FR/login.ts: 7 | web/i18n/fr-FR/login.ts: 43 | web/i18n/fr-FR/login.ts: 49 |
  web/i18n/fr-FR/login.ts: 54 | web/i18n/fr-FR/login.ts: 55 | web/i18n/fr-FR/login.ts: 56 |
  web/i18n/hi-IN/common.ts: 176 | web/i18n/hi-IN/common.ts: 178 | web/i18n/hi-IN/login.ts: 6 |
  web/i18n/hi-IN/login.ts: 7 | web/i18n/hi-IN/login.ts: 48 | web/i18n/hi-IN/login.ts: 54 |
  web/i18n/hi-IN/login.ts: 59 | web/i18n/hi-IN/login.ts: 60 | web/i18n/hi-IN/login.ts: 62 |
  web/i18n/it-IT/common.ts: 176 | web/i18n/it-IT/common.ts: 178 | web/i18n/it-IT/login.ts: 6 |
  web/i18n/it-IT/login.ts: 7 | web/i18n/it-IT/login.ts: 52 | web/i18n/it-IT/login.ts: 59 |
  web/i18n/it-IT/login.ts: 64 | web/i18n/it-IT/login.ts: 65 | web/i18n/it-IT/login.ts: 67 |
  web/i18n/ja-JP/common.ts: 171 | web/i18n/ja-JP/common.ts: 172 | web/i18n/ja-JP/login.ts: 6 |
  web/i18n/ja-JP/login.ts: 7 | web/i18n/ja-JP/login.ts: 44 | web/i18n/ja-JP/login.ts: 50 |
  web/i18n/ja-JP/login.ts: 55 | web/i18n/ja-JP/login.ts: 56 | web/i18n/ja-JP/login.ts: 57 |
  web/i18n/ko-KR/common.ts: 163 | web/i18n/ko-KR/common.ts: 164 | web/i18n/ko-KR/login.ts: 6 |
  web/i18n/ko-KR/login.ts: 7 | web/i18n/ko-KR/login.ts: 43 | web/i18n/ko-KR/login.ts: 49 |
  web/i18n/ko-KR/login.ts: 54 | web/i18n/ko-KR/login.ts: 55 | web/i18n/ko-KR/login.ts: 56 |
  web/i18n/pl-PL/common.ts: 172 | web/i18n/pl-PL/common.ts: 174 | web/i18n/pl-PL/login.ts: 6 |
  web/i18n/pl-PL/login.ts: 7 | web/i18n/pl-PL/login.ts: 48 | web/i18n/pl-PL/login.ts: 54 |
  web/i18n/pl-PL/login.ts: 59 | web/i18n/pl-PL/login.ts: 61 | web/i18n/pl-PL/login.ts: 62 |
  web/i18n/pt-BR/common.ts: 167 | web/i18n/pt-BR/common.ts: 168 | web/i18n/pt-BR/login.ts: 6 |
  web/i18n/pt-BR/login.ts: 7 | web/i18n/pt-BR/login.ts: 43 | web/i18n/pt-BR/login.ts: 49 |
  web/i18n/pt-BR/login.ts: 54 | web/i18n/pt-BR/login.ts: 55 | web/i18n/pt-BR/login.ts: 56 |
  web/i18n/ro-RO/common.ts: 167 | web/i18n/ro-RO/common.ts: 168 | web/i18n/ro-RO/login.ts: 6 |
  web/i18n/ro-RO/login.ts: 7 | web/i18n/ro-RO/login.ts: 44 | web/i18n/ro-RO/login.ts: 50 |
  web/i18n/ro-RO/login.ts: 55 | web/i18n/ro-RO/login.ts: 56 | web/i18n/ro-RO/login.ts: 57 |
  web/i18n/ru-RU/common.ts: 171 | web/i18n/ru-RU/common.ts: 172 | web/i18n/ru-RU/login.ts: 6 |
  web/i18n/ru-RU/login.ts: 7 | web/i18n/ru-RU/login.ts: 44 | web/i18n/ru-RU/login.ts: 50 |
  web/i18n/ru-RU/login.ts: 55 | web/i18n/ru-RU/login.ts: 56 | web/i18n/ru-RU/login.ts: 57 |
  web/i18n/sl-SI/common.ts: 174 | web/i18n/sl-SI/common.ts: 175 | web/i18n/sl-SI/login.ts: 6 |
  web/i18n/sl-SI/login.ts: 7 | web/i18n/sl-SI/login.ts: 44 | web/i18n/sl-SI/login.ts: 50 |
  web/i18n/sl-SI/login.ts: 55 | web/i18n/sl-SI/login.ts: 56 | web/i18n/sl-SI/login.ts: 57 |
  web/i18n/th-TH/common.ts: 169 | web/i18n/th-TH/common.ts: 170 | web/i18n/th-TH/login.ts: 6 |

web/i18n/th-TH/login.ts: 7 | web/i18n/th-TH/login.ts: 49 | web/i18n/th-TH/login.ts: 56 |
web/i18n/th-TH/login.ts: 61 | web/i18n/th-TH/login.ts: 62 | web/i18n/th-TH/login.ts: 63 |
web/i18n/tr-TR/common.ts: 171 | web/i18n/tr-TR/common.ts: 172 | web/i18n/tr-TR/login.ts: 6 |
web/i18n/tr-TR/login.ts: 7 | web/i18n/tr-TR/login.ts: 44 | web/i18n/tr-TR/login.ts: 50 |
web/i18n/tr-TR/login.ts: 55 | web/i18n/tr-TR/login.ts: 56 | web/i18n/tr-TR/login.ts: 57 |
web/i18n/uk-UA/common.ts: 167 | web/i18n/uk-UA/common.ts: 168 | web/i18n/uk-UA/login.ts: 6 |
web/i18n/uk-UA/login.ts: 7 | web/i18n/uk-UA/login.ts: 43 | web/i18n/uk-UA/login.ts: 49 |
web/i18n/uk-UA/login.ts: 54 | web/i18n/uk-UA/login.ts: 55 | web/i18n/uk-UA/login.ts: 56 |
web/i18n/vi-VN/common.ts: 167 | web/i18n/vi-VN/common.ts: 168 | web/i18n/vi-VN/login.ts: 6 |
web/i18n/vi-VN/login.ts: 7 | web/i18n/vi-VN/login.ts: 43 | web/i18n/vi-VN/login.ts: 49 |
web/i18n/vi-VN/login.ts: 54 | web/i18n/vi-VN/login.ts: 55 | web/i18n/vi-VN/login.ts: 56 |
web/i18n/zh-Hans/common.ts: 174 | web/i18n/zh-Hans/common.ts: 175 |
web/i18n/zh-Hans/login.ts: 6 | web/i18n/zh-Hans/login.ts: 7 | web/i18n/zh-Hans/login.ts: 49 |
web/i18n/zh-Hans/login.ts: 56 | web/i18n/zh-Hans/login.ts: 61 | web/i18n/zh-Hans/login.ts: 62 |
web/i18n/zh-Hans/login.ts: 63 | web/i18n/zh-Hant/common.ts: 167 |
web/i18n/zh-Hant/common.ts: 168 | web/i18n/zh-Hant/login.ts: 6 | web/i18n/zh-Hant/login.ts: 7 |
web/i18n/zh-Hant/login.ts: 43 | web/i18n/zh-Hant/login.ts: 49 | web/i18n/zh-Hant/login.ts: 54 |
web/i18n/zh-Hant/login.ts: 55 | web/i18n/zh-Hant/login.ts: 56

- **How to Fix:** Recommended Secure Coding Practices Store the passwords in a configuration file that is not pushed to the code repository. Store the passwords in a database. Use your cloud provider's service for managing passwords. If a password has been disclosed through the source code: change it.
  Compliant Solution const mysql = require('mysql');
  const connection = mysql.createConnection({
  host: process.env.MYSQL_URL,
  user: process.env.MYSQL_USERNAME,
  password: process.env.MYSQL_PASSWORD,
  database: process.env.MYSQL_DATABASE
  });
  connection.connect();
  See OWASP - Top 10 2021 Category A7 - Identification and Authentication Failures OWASP - Top 10 2017 Category A2 - Broken Authentication CWE - CWE-259 - Use of Hard-coded Password Derived from FindSecBugs rule Hard Coded Password

- **Root Cause:** Because it is easy to extract strings from an application source code or binary, passwords should not be hard-coded. This is particularly true for applications that are distributed or that are open-source. In the past, it has led to the following vulnerabilities: CVE-2019-13466 CVE-2018-15389 Passwords should be stored outside of the code in a configuration file, a database, or a management service for passwords. This rule flags instances of hard-coded passwords used in database and LDAP connections. It looks for hard-coded passwords in connection strings, and for variable names that match any of the patterns from the provided list.

- Make sure the regex used here, which is vulnerable to super-linear runtime due to backtracking, cannot lead to denial of service.

- **Vulnerability Probability:**   MEDIUM

- **Count:**   11

- **Locations:**   web/app/components/app/configuration/features/chat-group/opening-statement/index.tsx: 36 |
  web/app/components/app/configuration/prompt-value-panel/utils.ts: 4 |
  web/app/components/base/block-input/index.tsx: 12 |
  web/app/components/base/chat/chat/utils.ts: 9 |
  web/app/components/header/github-star/index.tsx: 45 |
  web/app/components/workflow/nodes/_base/components/support-var-input/index.tsx: 28 |
  web/app/components/workflow/nodes/code/code-parser.ts: 71 |
  web/app/components/workflow/nodes/variable-assigner/use-config.ts: 121 |
  web/app/components/workflow/note-node/note-editor/utils.ts: 21 |
  web/app/components/workflow/utils.ts: 441 | web/utils/format.ts: 10

- **How to Fix:**   Recommended Secure Coding Practices To avoid catastrophic backtracking situations, make sure that none of the following conditions apply to your regular expression. In all of the following cases, catastrophic backtracking can only happen if the problematic part of the regex is followed by a pattern that can fail, causing the backtracking to actually happen. If you have a repetition r* or r*?, such that the regex r could produce different possible matches (of possibly different lengths) on the same input, the worst case matching time can be exponential. This can be the case if r contains optional parts, alternations or additional repetitions (but not if the repetition is written in such a way that there's only one way to match it). If you have multiple repetitions that can match the same contents and are consecutive or are only separated by an optional separator or a separator that can be matched by both of the repetitions, the worst case matching time can be polynomial ($O(n^c)$ where c is the number of problematic repetitions). For example a*b* is not a problem because a* and b* match different things and a*_a* is not a problem because the repetitions are separated by a '_' and can't match that '_'. However, a*a* and .*_.* have quadratic runtime. If the regex is not anchored to the beginning of the string, quadratic runtime is especially hard to avoid because whenever a match fails, the regex engine will try again starting at the next index. This means that any unbounded repetition, if it's followed by a pattern that can fail, can cause quadratic runtime on some inputs. For example str.split(/\s*,/) will run in quadratic time on strings that consist entirely of spaces (or at least contain large sequences of spaces, not followed by a comma). In order to rewrite your regular expression without these patterns, consider the following strategies: If applicable, define a maximum number of expected repetitions using the bounded quantifiers, like {1,5} instead of + for instance. Refactor nested quantifiers to limit the number of way the inner group can be matched by the outer quantifier, for instance this nested quantifier situation (ba+)+ doesn't cause performance issues, indeed, the inner group can be matched only if there exists exactly one b char per repetition of the group. Optimize regular expressions by emulating possessive quantifiers and atomic grouping. Use negated character classes instead of . to exclude separators where applicable. For example the quadratic regex .*_.* can be made linear by changing it to [^_]*_.* Sometimes it's not possible to rewrite the regex to be linear while still matching what you want it to match. Especially when the regex is not anchored to the beginning of the string, for which it is quite hard to avoid quadratic runtimes. In those cases consider the following approaches: Solve the problem without regular expressions Use an

alternative non-backtracking regex implementations such as Google's RE2 or node-re2. Use multiple passes. This could mean pre- and/or post-processing the string manually before/after applying the regular expression to it or using multiple regular expressions. One example of this would be to replace str.split(/\s*,\s*/) with str.split(",") and then trimming the spaces from the strings as a second step. It is often possible to make the regex infallible by making all the parts that could fail optional, which will prevent backtracking. Of course this means that you'll accept more strings than intended, but this can be handled by using capturing groups to check whether the optional parts were matched or not and then ignoring the match if they weren't. For example the regex x*y could be replaced with x*(y)? and then the call to str.match(regex) could be replaced with matched = str.match(regex) and matched[1] !== undefined. Compliant Solution Possessive quantifiers do not keep backtracking positions, thus can be used, if possible, to avoid performance issues. Unfortunately, they are not supported in JavaScript, but one can still mimick them using lookahead assertions and backreferences: /((?=(a+))\2)+$/.test(

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"+

"aaaaaaaaaaaaaaa!"

); // Compliant

See OWASP - Top 10 2017 Category A1 - Injection CWE - CWE-400 - Uncontrolled Resource Consumption CWE - CWE-1333 - Inefficient Regular Expression Complexity owasp.org - OWASP Regular expression Denial of Service - ReDoS stackstatus.net(archived) - Outage Postmortem - July 20, 2016 regular-expressions.info - Runaway Regular Expressions: Catastrophic Backtracking docs.microsoft.com - Backtracking with Nested Optional Quantifiers

- **Root Cause:** Most of the regular expression engines use backtracking to try all possible execution paths of the regular expression when evaluating an input, in some cases it can cause performance issues, called catastrophic backtracking situations. In the worst case, the complexity of the regular expression is exponential in the size of the input, this means that a small carefully-crafted input (like 20 chars) can trigger catastrophic backtracking and cause a denial of service of the application. Super-linear regex complexity can lead to the same impact too with, in this case, a large carefully-crafted input (thousands chars). This rule determines the runtime complexity of a regular expression and informs you if it is not linear.

- Make sure that using this pseudorandom number generator is safe here.

- **Vulnerability Probability:** MEDIUM

- **Count:** 4

- **Locations:** web/app/components/base/audio-gallery/AudioPlayer.tsx: 122 | web/app/components/base/audio-gallery/AudioPlayer.tsx: 125 | web/service/demo/index.tsx: 23 | web/utils/index.ts: 30

- **How to Fix:** Recommended Secure Coding Practices Use a cryptographically secure pseudorandom number generator (CSPRNG) like crypto.getRandomValues(). Use the generated random values only once. You should not expose the generated random value. If you have to store it, make sure that the database or file is secure. Compliant Solution // === Client side ===

  const crypto = window.crypto || window.msCrypto;

  var array = new Uint32Array(1);

  crypto.getRandomValues(array);

  // === Server side ===

  const crypto = require('crypto');

  const buf = crypto.randomBytes(1);

  See OWASP - Secure Random Number Generation Cheat Sheet OWASP - Top 10 2021 Category A2 - Cryptographic Failures OWASP - Top 10 2017 Category A3 - Sensitive Data Exposure OWASP - Mobile AppSec Verification Standard - Cryptography Requirements OWASP - Mobile Top 10 2016 Category M5 - Insufficient Cryptography CWE - CWE-338 - Use of Cryptographically Weak Pseudo-Random Number Generator (PRNG) CWE - CWE-330 - Use of Insufficiently Random Values CWE - CWE-326 - Inadequate Encryption Strength CWE - CWE-1241 - Use of Predictable Algorithm in Random Number Generator Derived from FindSecBugs rule Predictable Pseudo Random Number Generator

- **Root Cause:** PRNGs are algorithms that produce sequences of numbers that only approximate true randomness. While they are suitable for applications like simulations or modeling, they are not appropriate for security-sensitive contexts because their outputs can be predictable if the internal state is known. In contrast, cryptographically secure pseudorandom number generators (CSPRNGs) are designed to be secure against prediction attacks. CSPRNGs use cryptographic algorithms to ensure that the generated sequences are not only random but also unpredictable, even if part of the sequence or the internal state becomes known. This unpredictability is crucial for security-related tasks such as generating encryption keys, tokens, or any other values that must remain confidential and resistant to guessing attacks. For example, the use of non-cryptographic PRNGs has led to vulnerabilities such as: CVE-2013-6386 CVE-2006-3419 CVE-2008-4102 When software generates predictable values in a context requiring unpredictability, it may be possible for an attacker to guess the next value that will be generated, and use this guess to impersonate another user or access sensitive information. Therefore, it is critical to use CSPRNGs in any security-sensitive application to ensure the robustness and security of the system. As the Math.random() function relies on a weak pseudorandom number generator, this function should not be used for security-critical applications or for protecting sensitive data. In such context, a cryptographically strong pseudorandom number generator (CSPRNG) should be used instead.

- Make sure not using "noopener" is safe here.

- **Vulnerability Probability:** LOW

- **Count:** 1

- **Locations:** web/app/components/app/overview/embedded/index.tsx: 106

- **Root Cause:** A newly opened window having access back to the originating window could allow basic phishing attacks (the window.opener object is not null and thus window.opener.location can be set to a malicious website by the opened page). For instance, an attacker can put a link (say: "http://example.com/mylink") on a popular website that changes, when opened, the original page to "http://example.com/fake_login". On "http://example.com/fake_login" there is a fake login page which could trick real users to enter their credentials.

- **How to Fix:** Recommended Secure Coding Practices Use noopener to prevent untrusted pages from abusing window.opener. Compliant Solution window.open("https://example.com/dangerous", "WindowName", "noopener");
  See OWASP - Top 10 2021 Category A5 - Security Misconfiguration Reverse Tabnabbing CWE - CWE-1022 - Use of Web Link to Untrusted Target with window.opener Access OWASP - Top 10 2017 Category A6 - Security Misconfiguration https://mathiasbynens.github.io/rel-noopener/

ISSUES

ISSUES COUNT BY SEVERITY AND TYPES

Type / Severity	INFO	MINOR	MAJOR	CRITICAL	BLOCKER
Bug	0	564	59	15	3
Vulnerability	0	4	1	0	0
Code Smell	2	1570	939	738	53

ISSUES LIST

_____

- Method "_bedrock_retrieve_and_generate" has 23 parameters, which is greater than the 13 authorized.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |
  api/core/agent/base_agent_runner.py: 54 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |
  api/core/agent/base_agent_runner.py: 54 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |
  api/core/agent/base_agent_runner.py: 54 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |

api/core/agent/base_agent_runner.py: 54 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |

api/core/agent/base_agent_runner.py: 54 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |

api/core/agent/base_agent_runner.py: 54 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |

api/core/agent/base_agent_runner.py: 54 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 124 |

api/core/agent/base_agent_runner.py: 54

- **Root Cause:** Functions, methods, or lambdas with a long parameter list are difficult to use, as maintainers must figure out the role of each parameter and keep track of their position. def set_coordinates(x1, y1, z1, x2, y2, z2): # Noncompliant

  # ...

  The solution can be to: Split the function, method, or lambda into smaller ones # Each function does a part of what the original set_coordinates function was doing, so confusion risks are lower def set_origin(x, y, z):

  # ...

  def set_size(width, height, depth):

  # ...

  Find a better data structure for the parameters that group data in a way that makes sense for the specific application domain @dataclass

  class Point: # In geometry, Point is a logical structure to group data

  x: int

  y: int

  z: int

  def set_coordinates(p1: Point, p2: Point):

  # ...

  This rule raises an issue when a function, a method, or a lambda has more parameters than the provided threshold. Exceptions The first argument of non-static methods, i.e., self or cls, is not counted as it is mandatory and passed automatically.

- Remove this unneeded "pass".

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 8

- **Locations:** api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |

api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 184

- **Root Cause:** The use of a pass statement where it is not required by the syntax is redundant. It makes the code less readable and its intent confusing. To fix this issue, remove pass statements that do not affect the behaviour of the program. Noncompliant code example def foo(arg):

  print(arg)

  pass # Noncompliant: the `pass` statement is not needed as it does not change the behaviour of the program.

  Compliant solution def foo(arg):

  print(arg)

- The length of a collection is always ">=0", so update this test to either "==0" or ">0".

- **Type:** BUG

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24 |
  api/tests/integration_tests/vdb/milvus/test_milvus.py: 24

- **Root Cause:** The length of a collection is always greater than or equal to zero. Testing it doesn't make sense, since the result is always true. mylist = []

  if len(myList) >= 0: # Noncompliant: always true

  pass

  Similarly testing that it is less than zero will always return false. if len(myList) < 0: #

  Noncompliant: always false

  pass

  Fix the code to properly check for emptiness if it was the intent, or remove the redundant code to

keep the current behavior.

- '@/utils/classnames' imported multiple times.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 16

- **Locations:** web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 12 |
  web/app/components/datasets/create/step-one/index.tsx: 21

- **Root Cause:** Having the same module imported multiple times can affect code readability and maintainability.
  It makes hard to identify which modules are being used. import { B1 } from 'b';
  import { B2 } from 'b'; // Noncompliant: there is already an import from module 'b'.
  Instead, one should consolidate the imports from the same module into a single statement. By
  consolidating all imports from the same module in a single import statement, the code becomes
  more concise and easier to read, as there is only one import statement to keep track of.
  Additionally, it can make it easier to identify which modules are used in the code. import { B1, B2 }
  from 'b';

- Rename this variable; it shadows a builtin.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 24

- **Locations:** api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188 |
  api/core/indexing_runner.py: 551 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 59 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 188

- **Root Cause:** Defining a variable with the same name as a built-in symbol will "shadow" it. That means that the builtin will no longer be accessible through its original name, having locally been replaced by the variable. Shadowing a builtin makes the code more difficult to read and maintain. It may also be a source of bugs as you can reference the builtin by mistake. It is sometimes acceptable to shadow a builtin to improve the readability of a public API or to support multiple versions of a library. In these cases, benefits are greater than the maintainability cost. This should, however, be done with care. It is generally not a good practice to shadow builtins with variables which are local to a function or method. These variables are not public and can easily be renamed, thus reducing the confusion and making the code less error-prone. Noncompliant code example def a_function():
  int = 42 # Noncompliant; int is a builtin
  Compliant solution def a_function():
  value = 42

- Remove the unused local variable "e".

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 80

- **Locations:** api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
  api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
  api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
  api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
  api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
  api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
  api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
  api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
  api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
  api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |

api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68 |
api/core/model_runtime/model_providers/deepseek/llm/llm.py: 132 |
api/core/model_runtime/model_providers/sagemaker/llm/llm.py: 182 |
api/controllers/console/auth/forgot_password.py: 128 | api/controllers/console/auth/login.py: 125 |
api/controllers/console/auth/login.py: 156 | api/controllers/console/auth/login.py: 194 |
api/controllers/console/workspace/account.py: 283 | api/tasks/delete_account_task.py: 18 |
api/services/dataset_service.py: 1856 | api/core/rag/datasource/vdb/relyt/relyt_vector.py: 68

- **Root Cause:** An unused local variable is a variable that has been declared but is not used anywhere in the block of code where it is defined. It is dead code, contributing to unnecessary complexity and leading to confusion when reading the code. Therefore, it should be removed from your code to maintain clarity and efficiency. What is the potential impact? Having unused local variables in your code can lead to several issues: Decreased Readability: Unused variables can make your code more difficult to read. They add extra lines and complexity, which can distract from the main logic of the code. Misunderstanding: When other developers read your code, they may wonder why a variable is declared but not used. This can lead to confusion and misinterpretation of the code's intent. Potential for Bugs: If a variable is declared but not used, it might indicate a bug or incomplete code. For example, if you declared a variable intending to use it in a calculation, but then forgot to do so, your program might not work as expected. Maintenance Issues: Unused variables can make code maintenance more difficult. If a programmer sees an unused variable, they might think it is a mistake and try to 'fix' the code, potentially introducing new bugs. Memory Usage: Although modern compilers are smart enough to ignore unused variables, not all compilers do this. In such cases, unused variables take up memory space, leading to inefficient use of resources. In summary, unused local variables can make your code less readable, more confusing, and harder to maintain, and they can potentially lead to bugs or inefficient memory use. Therefore, it is best to remove them. Exceptions _ will not raise an issue for this rule. The following examples are compliant: for _ in range(10):
  do_something()
  username, login, _ = auth
  do_something_else(username, login)

- **How to Fix:** The fix for this issue is straightforward. Once you ensure the unused variable is not part of an incomplete implementation leading to bugs, you just need to remove it. Noncompliant code example def hello(name):
  message = "Hello " + name # Noncompliant - message is unused
  print(name)
  for i in range(10): # Noncompliant - i is unused
  foo()
  Compliant solution def hello(name):
  message = "Hello " + name
  print(message)
  for _ in range(10):
  foo()

- Add a <title> tag to this page.

- **Type:** BUG

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4 |
  api/templates/delete_account_code_email_template_en-US.html: 4 |
  api/templates/delete_account_success_template_en-US.html: 4

- **Root Cause:** Titles are important because they are displayed in search engine results as well as the browser's
  toolbar. This rule verifies that the <head> tag contains a <title> one, and the <html> tag a <head>
  one. Noncompliant code example <html>   <!-- Non-Compliant -->
  <body>
  ...
  </body>
  </html>
  Compliant solution <html>   <!-- Compliant -->
  <head>
  <title>Some relevant title</title>
  </head>
  <body>
  ...
  </body>
  </html>

- Prefer using an optional chain expression instead, as it's more concise and easier to read.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 32

- **Locations:** web/utils/clipboard.ts: 2 | web/app/components/app-sidebar/index.tsx: 72 |
  web/app/components/datasets/create/step-two/index.tsx: 1087 |
  web/app/components/datasets/create/step-two/index.tsx: 1098 | web/utils/clipboard.ts: 2 |
  web/app/components/app-sidebar/index.tsx: 72 |
  web/app/components/datasets/create/step-two/index.tsx: 1087 |
  web/app/components/datasets/create/step-two/index.tsx: 1098 | web/utils/clipboard.ts: 2 |
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  web/app/components/datasets/create/step-two/index.tsx: 1087 |
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  web/app/components/app-sidebar/index.tsx: 72 |
  web/app/components/datasets/create/step-two/index.tsx: 1087 |
  web/app/components/datasets/create/step-two/index.tsx: 1098

- **How to Fix:** Replace with ?. optional chaining the logical expression that checks for null/undefined before
  accessing the property of an object, the element of an array, or calling a function. Noncompliant
  code example function foo(obj, arr, fn) {
  if (obj && obj.value) {}
  if (arr && arr[0]) {}
  if (fn && fn(42)) {}
  }
  Compliant solution function foo(obj, arr, fn) {
  if (obj?.value) {}
  if (arr?.[0]) {}
  if (fn?.(42)) {}
  }

- **Root Cause:** Optional chaining allows to safely access nested properties or methods of an object without

having to check for the existence of each intermediate property manually. It provides a concise and safe way to access nested properties or methods without having to write complex and error-prone null/undefined checks. This rule flags logical operations that can be safely replaced with the ?. optional chaining operator.

- Replace this generic exception class with a more specific one.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 144

- **Locations:** api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 233 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 77 |
  api/core/tools/provider/builtin/gitlab/tools/gitlab_files.py: 42 |
  api/core/model_runtime/model_providers/wenxin/_common.py: 52 |
  api/core/rag/extractor/notion_extractor.py: 360 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 130 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 225 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 257 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 273 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 293 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 346 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 399 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 457 |
  api/tasks/batch_clean_document_task.py: 33 | api/core/helper/module_import_helper.py: 17 |
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  api/core/helper/module_import_helper.py: 63 |
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  api/core/tools/provider/builtin/aippt/tools/aippt.py: 225 |
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  api/core/tools/provider/builtin/aippt/tools/aippt.py: 273 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 293 |
  api/core/tools/provider/builtin/aippt/tools/aippt.py: 346 |
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api/core/rag/extractor/notion_extractor.py: 360 |

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api/core/tools/provider/builtin/aippt/tools/aippt.py: 225 |

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api/core/tools/provider/builtin/aippt/tools/aippt.py: 293 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 346 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 399 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 457 |

api/tasks/batch_clean_document_task.py: 33 | api/core/helper/module_import_helper.py: 17 |

api/core/helper/module_import_helper.py: 23 | api/core/helper/module_import_helper.py: 61 |

api/core/helper/module_import_helper.py: 63 |

api/core/tools/provider/builtin/aws/tools/bedrock_retrieve_and_generate.py: 233 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 77 |

api/core/tools/provider/builtin/gitlab/tools/gitlab_files.py: 42 |

api/core/model_runtime/model_providers/wenxin/_common.py: 52 |

api/core/rag/extractor/notion_extractor.py: 360 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 130 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 225 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 257 |

api/core/tools/provider/builtin/aippt/tools/aippt.py: 273 |
api/core/tools/provider/builtin/aippt/tools/aippt.py: 293 |
api/core/tools/provider/builtin/aippt/tools/aippt.py: 346 |
api/core/tools/provider/builtin/aippt/tools/aippt.py: 399 |
api/core/tools/provider/builtin/aippt/tools/aippt.py: 457 |
api/tasks/batch_clean_document_task.py: 33 | api/core/helper/module_import_helper.py: 17 |
api/core/helper/module_import_helper.py: 23 | api/core/helper/module_import_helper.py: 61 |
api/core/helper/module_import_helper.py: 63

- **How to Fix:** To fix this issue, make sure to throw specific exceptions that are relevant to the context in which they arise. It is recommended to either: Raise a specific Built-in exception when one matches. For example TypeError should be raised when the type of a parameter is not the one expected. Create a custom exception class deriving from Exception or one of its subclasses. Noncompliant code example def check_value(value):
  if value < 0:
  raise BaseException("Value cannot be negative") # Noncompliant: this will be difficult for consumers to handle
  Compliant solution def check_value(value):
  if value < 0:
  raise ValueError("Value cannot be negative") # Compliant

- **Root Cause:** Raising instances of Exception and BaseException will have a negative impact on any code trying to catch these exceptions. From a consumer perspective, it is generally a best practice to only catch exceptions you intend to handle. Other exceptions should ideally not be caught and let to propagate up the stack trace so that they can be dealt with appropriately. When a generic exception is thrown, it forces consumers to catch exceptions they do not intend to handle, which they then have to re-raise. Besides, when working with a generic type of exception, the only way to distinguish between multiple exceptions is to check their message, which is error-prone and difficult to maintain. Legitimate exceptions may be unintentionally silenced and errors may be hidden. For instance, if an exception such as SystemExit is caught and not re-raised, it will prevent the program from stopping. When raising an exception, it is therefore recommended to raising the most specific exception possible so that it can be handled intentionally by consumers.

- Remove this useless assignment to variable "postData".

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 24

- **Locations:** web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx: 125 | web/app/components/datasets/documents/list.tsx: 477 |

web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
125 | web/app/components/datasets/documents/list.tsx: 477 |
web/app/components/datasets/hit-testing/components/child-chunks-item.tsx: 17

- **How to Fix:** Remove the unnecesarry assignment, then test the code to make sure that the right-hand side of a
given assignment had no side effects (e.g. a method that writes certain data to a file and returns
the number of written bytes). Noncompliant code example function foo(y) {

  let x = 100; // Noncompliant: dead store

  x = 150;   // Noncompliant: dead store

  x = 200;

  return x + y;

  }

  Compliant solution function foo(y) {

  let x = 200; // Compliant: no unnecessary assignment

  return x + y;

  }

- **Root Cause:** Dead stores refer to assignments made to local variables that are subsequently never used or
immediately overwritten. Such assignments are unnecessary and don't contribute to the
functionality or clarity of the code. They may even negatively impact performance. Removing
them enhances code cleanliness and readability. Even if the unnecessary operations do not do any
harm in terms of the program's correctness, they are - at best - a waste of computing resources.
Exceptions The rule ignores Initializations to -1, 0, 1, undefined, [], {}, true, false and "". Variables
that start with an underscore (e.g. _unused) are ignored. Assignment of null is ignored because it
is sometimes used to help garbage collection Increment and decrement expressions are ignored
because they are often used idiomatically instead of x+1 This rule also ignores variables declared

with object destructuring using rest syntax (used to exclude some properties from object) let {a, b, ...rest} = obj; // 'a' and 'b' are compliant
doSomething(rest);
let [x1, x2, x3] = arr;   // 'x1' is noncompliant, as omitting syntax can be used: "let [, x2, x3] = arr;"
doSomething(x2, x3);

- Take the required action to fix the issue indicated by this "FIXME" comment.

- **Type:**   CODE_SMELL

- **Severity:**   MAJOR

- **Count:**   256

- **Locations:**   api/core/model_runtime/model_providers/openai/llm/llm.py: 788 | api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 | api/core/agent/cot_chat_agent_runner.py: 83 | api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 | api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 | api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 | api/core/model_runtime/model_providers/__base/model_provider.py: 107 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 | api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 | api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 | api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 | api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 | api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 | api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 | api/core/rag/embedding/cached_embedding.py: 67 | api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 85 | api/core/model_runtime/model_providers/openai/llm/llm.py: 788 | api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 | api/core/agent/cot_chat_agent_runner.py: 83 |

api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 |

api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 |

api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 |

api/core/model_runtime/model_providers/__base/model_provider.py: 107 |

api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 |

api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 |

api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 |

api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 |

api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 |

api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 |

api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 |

api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 |

api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 |

api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 |

api/core/rag/embedding/cached_embedding.py: 67 |

api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 85 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 788 |

api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 |

api/core/agent/cot_chat_agent_runner.py: 83 |

154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 | api/core/agent/cot_chat_agent_runner.py: 83 | api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 | api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 | api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 | api/core/model_runtime/model_providers/__base/model_provider.py: 107 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 | api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 | api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 | api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 | api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 | api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 | api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 | api/core/rag/embedding/cached_embedding.py: 67 | api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 85 | api/core/model_runtime/model_providers/openai/llm/llm.py: 788 | api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 | api/core/agent/cot_chat_agent_runner.py: 83 | api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 | api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 | api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 | api/core/model_runtime/model_providers/__base/model_provider.py: 107 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 | api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 | api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 | api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 | api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 | api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 | api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 | api/core/rag/embedding/cached_embedding.py: 67 | api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 85 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 788 |

api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 |

api/core/agent/cot_chat_agent_runner.py: 83 |

api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 |

api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 |

api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 |

api/core/model_runtime/model_providers/__base/model_provider.py: 107 |

api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 |

api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 |

api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 |

api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 |

api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 |

api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 |

api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 |

api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 |

api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 |

api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 |

api/core/rag/embedding/cached_embedding.py: 67 |

api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 |

api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 85 | api/core/model_runtime/model_providers/openai/llm/llm.py: 788 | api/core/tools/utils/text_processing_utils.py: 15 | api/services/entities/model_provider_entities.py: 154 | api/core/tools/entities/tool_entities.py: 246 | api/controllers/console/app/conversation.py: 80 | api/core/agent/cot_agent_runner.py: 32 | api/core/agent/cot_agent_runner.py: 320 | api/core/agent/cot_chat_agent_runner.py: 83 | api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 77 | api/core/app/apps/agent_chat/app_generator.py: 203 | api/core/external_data_tool/factory.py: 27 | api/core/helper/moderation.py: 38 | api/core/helper/module_import_helper.py: 20 | api/core/model_runtime/model_providers/__base/model_provider.py: 107 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 16 | api/core/model_runtime/model_providers/gitee_ai/tts/tts.py: 51 | api/core/model_runtime/model_providers/volcengine_maas/legacy/errors.py: 155 | api/core/model_runtime/utils/encoders.py: 132 | api/core/model_runtime/utils/helper.py: 7 | api/core/moderation/factory.py: 25 | api/core/provider_manager.py: 499 | api/core/rag/datasource/vdb/baidu/baidu_vector.py: 88 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 74 | api/core/rag/datasource/vdb/chroma/chroma_vector.py: 79 | api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_service.py: 250 | api/core/rag/datasource/vdb/vikingdb/vikingdb_vector.py: 126 | api/core/rag/embedding/cached_embedding.py: 67 | api/core/rag/embedding/cached_embedding.py: 119 | api/core/rag/extractor/extract_processor.py: 74 | api/core/rag/extractor/extract_processor.py: 99 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 52 | api/core/rag/extractor/firecrawl/firecrawl_app.py: 85

- **Root Cause:** FIXME tags are commonly used to mark places where a bug is suspected, but which the developer wants to deal with later. Sometimes the developer will not have the time or will simply forget to get back to that tag. This rule is meant to track those tags and to ensure that they do not go unnoticed. def divide(numerator, denominator):
return numerator / denominator   # FIXME denominator value might be 0

- Complete the task associated to this "TODO" comment.

- **Type:** CODE_SMELL

- **Severity:** INFO

- **Count:** 8

- **Locations:** api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 111

- **Root Cause:** Developers often use TODO tags to mark areas in the code where additional work or improvements are needed but are not implemented immediately. However, these TODO tags sometimes get overlooked or forgotten, leading to incomplete or unfinished code. This rule aims to identify and address unattended TODO tags to ensure a clean and maintainable codebase. This description explores why this is a problem and how it can be fixed to improve the overall code quality. What is the potential impact? Unattended TODO tags in code can have significant implications for the development process and the overall codebase. Incomplete Functionality: When developers leave TODO tags without implementing the corresponding code, it results in incomplete functionality within the software. This can lead to unexpected behavior or missing features, adversely affecting the end-user experience. Missed Bug Fixes: If developers do not promptly address TODO tags, they might overlook critical bug fixes and security updates. Delayed bug fixes can result in more severe issues and increase the effort required to resolve them later. Impact on Collaboration: In team-based development environments, unattended TODO tags can hinder collaboration. Other team members might not be aware of the intended changes, leading to conflicts or redundant efforts in the codebase. Codebase Bloat: The accumulation of unattended TODO tags over time can clutter the codebase and make it difficult to distinguish between work in progress and completed code. This bloat can make it challenging to maintain an organized and efficient codebase. Addressing this code smell is essential to ensure a maintainable, readable, reliable codebase and promote effective collaboration among developers. Noncompliant code example def doSomething:
  # TODO : Complete function

- A fragment with only one child is redundant.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 40

- **Locations:** web/app/components/share/text-generation/index.tsx: 548 |
  web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |
  web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242 |

web/app/components/share/text-generation/index.tsx: 548 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 158 |

web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 57 |

web/app/components/datasets/hit-testing/textarea.tsx: 109 |

web/app/components/datasets/settings/form/index.tsx: 242

- **Root Cause:** React fragments are a feature in React that allows you to group multiple elements together without adding an extra DOM element. They are a way to return multiple elements from a component's render method without requiring a wrapping parent element. However, a fragment is redundant if it contains only one child, or if it is the child of an HTML element. <><Foo /></>; // Noncompliant: The fragment has only one child
<p><>foo</></p>; // Noncompliant: The fragment is the child of the HTML element 'p'
You can safely remove the redundant fragment while preserving the original behaviour. <Foo />;
<p>foo</p>;

- Provide multiple methods instead of using "focused" to determine which action to take.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 64

- **Root Cause:** A selector parameter is a boolean parameter that's used to determine which of two paths to take
  through a method. Specifying such a parameter may seem innocuous, particularly if it's well
  named. Unfortunately, developers calling the method won't see the parameter name, only its
  value. They'll be forced either to guess at the meaning or to take extra time to look the method up.
  This rule finds methods with a boolean that's used to determine which path to take through the
  method. Noncompliant code example function tempt(name: string, ofAge: boolean) {
  if (ofAge) {
  offerLiquor(name);
  } else {
  offerCandy(name);
  }
  }
  // ...
  function corrupt() {
  tempt("Joe", false); // does this mean not to temp Joe?
  }
  Compliant solution Instead, separate methods should be written. function temptAdult(name:
  string) {
  offerLiquor(name);
  }
  function temptChild(name: string) {
  offerCandy(name);
  }
  // ...
  function corrupt() {
  age < legalAge ? temptChild("Joe") : temptAdult("Joe");

```
    }
```

- Complete the task associated to this "TODO" comment.

- **Type:** CODE_SMELL

- **Severity:** INFO

- **Count:** 8

- **Locations:** web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300 | web/models/datasets.ts: 300

- **Root Cause:** Developers often use TODO tags to mark areas in the code where additional work or improvements are needed but are not implemented immediately. However, these TODO tags sometimes get overlooked or forgotten, leading to incomplete or unfinished code. This rule aims to identify and address unattended TODO tags to ensure a clean and maintainable codebase. This description explores why this is a problem and how it can be fixed to improve the overall code quality. What is the potential impact? Unattended TODO tags in code can have significant implications for the development process and the overall codebase. Incomplete Functionality: When developers leave TODO tags without implementing the corresponding code, it results in incomplete functionality within the software. This can lead to unexpected behavior or missing features, adversely affecting the end-user experience. Missed Bug Fixes: If developers do not promptly address TODO tags, they might overlook critical bug fixes and security updates. Delayed bug fixes can result in more severe issues and increase the effort required to resolve them later. Impact on Collaboration: In team-based development environments, unattended TODO tags can hinder collaboration. Other team members might not be aware of the intended changes, leading to conflicts or redundant efforts in the codebase. Codebase Bloat: The accumulation of unattended TODO tags over time can clutter the codebase and make it difficult to distinguish between work in progress and completed code. This bloat can make it challenging to maintain an organized and efficient codebase. Addressing this code smell is essential to ensure a maintainable, readable, reliable codebase and promote effective collaboration among developers. Noncompliant code example function doSomething() {
  // TODO
  }

- Extract this nested ternary operation into an independent statement.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 248

- **Locations:** web/app/components/datasets/hit-testing/index.tsx: 135 |
  web/app/components/app/overview/settings/index.tsx: 182 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 77 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 79 |
  web/app/components/datasets/settings/form/index.tsx: 303 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 592 |
  web/app/components/workflow/nodes/knowledge-retrieval/components/retrieval-config.tsx: 77 |
  web/app/components/datasets/common/chunking-mode-label.tsx: 24 |
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  web/app/components/datasets/create/embedding-process/index.tsx: 85 |
  web/app/components/datasets/create/embedding-process/index.tsx: 92 |
  web/app/components/datasets/create/embedding-process/index.tsx: 140 |
  web/app/components/datasets/create/step-two/index.tsx: 164 |
  web/app/components/datasets/create/step-two/index.tsx: 291 |
  web/app/components/datasets/create/step-two/index.tsx: 309 |
  web/app/components/datasets/create/stepper/step.tsx: 23 |
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  web/app/components/datasets/create/stepper/step.tsx: 41 |
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  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 112 |
  web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 183 |
  web/app/components/datasets/documents/detail/completed/segment-card.tsx: 239 |
  web/app/components/datasets/documents/detail/embedding/index.tsx: 82 |
  web/app/components/datasets/documents/detail/embedding/index.tsx: 84 |
  web/app/components/datasets/documents/detail/embedding/index.tsx: 91 |
  web/app/components/datasets/documents/detail/embedding/index.tsx: 141 |
  web/app/components/datasets/documents/detail/index.tsx: 259 |
  web/app/components/datasets/documents/detail/metadata/index.tsx: 345 |
  web/app/components/datasets/documents/index.tsx: 277 |
  web/app/components/datasets/hit-testing/index.tsx: 135 |
  web/app/components/app/overview/settings/index.tsx: 182 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 77 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 79 |
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  web/app/components/datasets/documents/detail/completed/index.tsx: 592 |
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web/app/components/datasets/documents/index.tsx: 277

- **Root Cause:** Nested ternaries are hard to read and can make the order of operations complex to understand.

  function getReadableStatus(job) {

  return job.isRunning() ? "Running" : job.hasErrors() ? "Failed" : "Succeeded "; // Noncompliant

  }

  Instead, use another line to express the nested operation in a separate statement. function getReadableStatus(job) {

  if (job.isRunning()) {

  return "Running";

  }

  return job.hasErrors() ? "Failed" : "Succeeded";

  }

  Exceptions This rule does not apply in JSX expressions to support conditional rendering and conditional attributes as long as the nesting happens in separate JSX expression containers, i.e. JSX elements embedding JavaScript code, as shown below: return (

  <>

  {isLoading ? (

  <Loader active />

```
) : (
<Panel label={isEditing ? 'Open' : 'Not open'}>
<a>{isEditing ? 'Close now' : 'Start now'}</a>
<Checkbox onClick={!saving ? setSaving(saving => !saving) : null} />
</Panel>
)}
</>
);
```

If you have nested ternaries in the same JSX expression container, refactor your logic into a separate function like that: function myComponent(condition) {

```
if (condition < 0) {
return '<DownSign>it is negative</DownSign>';
} else if (condition > 0) {
return '<UpSign>it is positive</UpSign>';
} else {
return '<BarSign>it is zero</BarSign>';
}
}
return (
{myComponent(foo)}
);
```

- This assertion is unnecessary since it does not change the type of the expression.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 40

- **Locations:** web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |
  web/app/components/datasets/create/step-two/index.tsx: 199 |
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  web/app/components/datasets/create/step-two/index.tsx: 1025 |
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  web/app/components/datasets/create/step-two/index.tsx: 339 |
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  web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |
  web/app/components/datasets/create/step-two/index.tsx: 199 |
  web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025 |

web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |

web/app/components/datasets/create/step-two/index.tsx: 199 |

web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025 |

web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |

web/app/components/datasets/create/step-two/index.tsx: 199 |

web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025 |

web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |

web/app/components/datasets/create/step-two/index.tsx: 199 |

web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025 |

web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |

web/app/components/datasets/create/step-two/index.tsx: 199 |

web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025 |

web/app/components/workflow/nodes/document-extractor/panel.tsx: 109 |

web/app/components/datasets/create/step-two/index.tsx: 199 |

web/app/components/datasets/create/step-two/index.tsx: 339 |

web/app/components/datasets/create/step-two/index.tsx: 473 |

web/app/components/datasets/create/step-two/index.tsx: 1025

- **Root Cause:** In TypeScript, casts and non-null assertions are two mechanisms used to inform the TypeScript compiler about the intended types of variables, expressions, or values in the code. They are used to help the compiler understand the types more accurately and to handle certain situations where type inference might not be sufficient: A type assertion tells the compiler to treat the value as the specified type, even if the compiler's type inference suggests a different type. A non-null assertion is a way to tell the TypeScript compiler explicitly that you are certain that a variable will not be null or undefined, and you want to access its properties or methods without any null checks. However, a redundant cast occurs when you perform a type assertion that is not needed because the compiler already knows the type based on the context or explicit type declarations. Similarly, a redundant non-null assertion occurs when you use the non-null assertion operator ! to assert that a variable is not null or undefined, but the compiler already knows that based on the context. Both redundant casts and redundant non-null assertions should be avoided in TypeScript code, as they add unnecessary noise, clutter the code, and lead to confusion. function getName(x?: string | Person) {
if (x) {
console.log("Getting name for " + x!); // Noncompliant: 'x' is known to be defined here
if (typeof x === "string") {

```
return (x as string); // Noncompliant: 'x' is known to be a string here
} else {
return (x as Person).name; // Noncompliant: 'x' is defined and not a string, thus a 'Person' here
}
}
return "NoName";
}
```

Remove all the redundant casts and non-null assertions based on the contextual typing information, as inferred by the TypeScript compiler.

```
function getName(x?: string | Person) {
if (x) {
console.log("Getting name for " + x);
if (typeof x === "string") {
return x;
} else {
return x.name;
}
}
return "NoName";
}
```

- Remove the unused function parameter "session".

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 32

- **Locations:** api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |
  api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |
  api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |
  api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |
  api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |
  api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |

api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |

api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |

api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |

api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |

api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |

api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170 |

api/core/app/task_pipeline/workflow_cycle_manage.py: 841 |

api/core/model_runtime/model_providers/wenxin/text_embedding/text_embedding.py: 52 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 169 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 170

- **Root Cause:** A typical code smell known as unused function parameters refers to parameters declared in a function but not used anywhere within the function's body. While this might seem harmless at first glance, it can lead to confusion and potential errors in your code. Disregarding the values passed to such parameters, the function's behavior will be the same, but the programmer's intention won't be clearly expressed anymore. Therefore, removing function parameters that are not being utilized is considered best practice. Exceptions This rule ignores overriding methods.

  class C(B):

  def do_something(self, a, b): # no issue reported on b

  return self.compute(a)

  This rule also ignores variables named with a single underscore _. Such naming is a common practice for indicating that the variable is insignificant. def do_something(a, _): # no issue reported on _

  return compute(a)

  The rule also won't raise an issue if the parameter is referenced in a docstring or a comment: class MyClass:

  def do_something(self, my_param): # no issue reported

  # Overrides may use my_param to ...

  return compute(a)

  class MyClass:

  def do_something(self, my_param): # no issue reported

  """Overrides may use my_param to ..."""

  return compute(a)

- **How to Fix:** Having unused function parameters in your code can lead to confusion and misunderstanding of a developer's intention. They reduce code readability and introduce the potential for errors. To avoid these problems, developers should remove unused parameters from function declarations. Noncompliant code example def do_something(a, b): # "b" is unused

return compute(a)

Compliant solution def do_something(a):

return compute(a)

- Sort these package names alphanumerically.

- **Type:**   CODE_SMELL

- **Severity:**   MINOR

- **Count:**   8

- **Locations:**   api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58

- **How to Fix:**   Noncompliant code example FROM ubuntu:20.04

  RUN apt-get update && apt-get install -y \

  unzip \

  wget \

  curl \

  git \

  zip

  FROM alpine:3.12

  RUN apk add unzip wget curl git zip

  Compliant solution FROM ubuntu:20.04

  RUN apt-get update && apt-get install -y \

  curl \

  git \

  unzip \

  wget \

  zip

  FROM alpine:3.12

  RUN apk add curl git unzip wget zip

- **Root Cause:**   When arguments in RUN instructions are not sorted alphabetically, it can make the Dockerfile harder to read and maintain. However, when arguments are sorted, it is easier to track changes in version control systems and to locate specific arguments. This applies first and foremost to package managers, where a list of installed packages can grow over time.

- Refactor this method to not always return the same value.

- **Type:**   CODE_SMELL

- **Severity:**   BLOCKER

- **Count:**   16

- **Locations:**   api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 109 |
  api/core/rag/extractor/firecrawl/firecrawl_app.py: 118

- **Root Cause:**   When a function is designed to return an invariant value, it may be poor design, but it shouldn't adversely affect the outcome of your program. However, when it happens on all paths through the logic, it is surely a bug. This rule raises an issue when a function contains several return statements that all return the same value. Noncompliant code example def foo(a): # NonCompliant
  b = 12
  if a == 1:
  return b
  return b

- Remove or correct this useless self-assignment.

- **Type:**   BUG

- **Severity:**   MAJOR

- **Count:**   8

- **Locations:**   api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
  api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |

api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 67 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 67

- **Root Cause:** There is no reason to re-assign a variable to itself. Either this statement is redundant and should be removed, or the re-assignment is a mistake and some other value or variable was intended for the assignment instead. Noncompliant code example name = name
  Compliant solution name = other.name

- Change this argument; Function "_add_custom_parameters" expects a different type

- **Type:** CODE_SMELL

- **Severity:** CRITICAL

- **Count:** 8

- **Locations:** api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23 |
  api/core/model_runtime/model_providers/gitee_ai/text_embedding/text_embedding.py: 23

- **Root Cause:** The CPython interpreter does not check types of arguments when functions are called. However, a function can express the type it expects for each argument in its documentation or by using Type Hints. While the code may initially work as intended, not respecting the contract of an API may lead to bugs later when its implementation evolves or when type checks are added (i.e. with isinstance). This rule also checks argument types for built-in functions. Noncompliant code example def func(var: str):
  pass
  func(42) # Noncompliant: 42 is not of type str.
  round("not a number") # Noncompliant: the builtin function round requires a number as first parameter.
  Compliant solution def func(var: str):
  pass
  func("42")

round(1.2)

- Replace the type hint "str" with "Optional[str]" or don't assign "None" to "sagemaker_endpoint"

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13 |
  api/core/tools/provider/builtin/aws/tools/sagemaker_text_rerank.py: 13

- **Root Cause:** Type hints in Python allow you to specify the expected types of variables and function return values. While type hints are not enforced at runtime, they serve as documentation and can be checked using static type checkers to catch type-related errors during development. When an assigned value type is incompatible with the type hint of the assigning variable, it can lead to several issues: Type-related bugs: Assigning a value of an incompatible type to a variable with a specific type hint may lead to unexpected behavior or errors at runtime. Readability and maintainability: Type hints improve code readability by explicitly stating the intended types of variables and functions. When the assigned value type doesn't match the hint, it can confuse other developers and make the code harder to maintain.

- **How to Fix:** Assign the variable to the value compatible with the type hint or change the type hint to be compatible with the variable's type. Noncompliant code example def my_function():
  my_int: int = "string" # Noncompliant
  Compliant solution def my_function():
  my_str: str = "string"

- Do not use Array index in keys

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 88

- **Locations:** web/app/components/datasets/hit-testing/index.tsx: 88 |
  web/app/(commonLayout)/datasets/Doc.tsx: 86 |
  web/app/components/base/linked-apps-panel/index.tsx: 57 |
  web/app/components/datasets/create/stepper/index.tsx: 16 |
  web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
  web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
  20 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  55 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  57 |
  web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
  57 |
  web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
  59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
  web/app/components/datasets/hit-testing/index.tsx: 88 |
  web/app/(commonLayout)/datasets/Doc.tsx: 86 |
  web/app/components/base/linked-apps-panel/index.tsx: 57 |
  web/app/components/datasets/create/stepper/index.tsx: 16 |
  web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
  web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
  20 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  55 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  57 |
  web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
  57 |
  web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
  59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
  web/app/components/datasets/hit-testing/index.tsx: 88 |
  web/app/(commonLayout)/datasets/Doc.tsx: 86 |
  web/app/components/base/linked-apps-panel/index.tsx: 57 |
  web/app/components/datasets/create/stepper/index.tsx: 16 |
  web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
  web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
  20 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  55 |
  web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
  57 |
  web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
  57 |

web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
web/app/components/datasets/hit-testing/index.tsx: 88 |
web/app/(commonLayout)/datasets/Doc.tsx: 86 |
web/app/components/base/linked-apps-panel/index.tsx: 57 |
web/app/components/datasets/create/stepper/index.tsx: 16 |
web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
web/app/components/datasets/hit-testing/index.tsx: 88 |
web/app/(commonLayout)/datasets/Doc.tsx: 86 |
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web/app/components/datasets/create/stepper/index.tsx: 16 |
web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
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web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
web/app/components/datasets/hit-testing/index.tsx: 88 |
web/app/(commonLayout)/datasets/Doc.tsx: 86 |
web/app/components/base/linked-apps-panel/index.tsx: 57 |
web/app/components/datasets/create/stepper/index.tsx: 16 |
web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
20 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
55 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
57 |
web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
57 |

web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
web/app/components/datasets/hit-testing/index.tsx: 88 |
web/app/(commonLayout)/datasets/Doc.tsx: 86 |
web/app/components/base/linked-apps-panel/index.tsx: 57 |
web/app/components/datasets/create/stepper/index.tsx: 16 |
web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
20 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
55 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
57 |
web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
57 |
web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54 |
web/app/components/datasets/hit-testing/index.tsx: 88 |
web/app/(commonLayout)/datasets/Doc.tsx: 86 |
web/app/components/base/linked-apps-panel/index.tsx: 57 |
web/app/components/datasets/create/stepper/index.tsx: 16 |
web/app/components/datasets/documents/detail/completed/common/empty.tsx: 69 |
web/app/components/datasets/documents/detail/completed/skeleton/full-doc-list-skeleton.tsx:
20 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
55 |
web/app/components/datasets/documents/detail/completed/skeleton/general-list-skeleton.tsx:
57 |
web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
57 |
web/app/components/datasets/documents/detail/completed/skeleton/paragraph-list-skeleton.tsx:
59 | web/app/components/datasets/documents/detail/embedding/skeleton/index.tsx: 54

- **Root Cause:** To optimize the rendering of React list components, a unique identifier (UID) is required for each
list item. This UID lets React identify the item throughout its lifetime. Avoid array indexes since
the order of the items may change, which will cause keys to not match up between renders,
recreating the DOM. It can negatively impact performance and may cause issues with the
component state. function Blog(props) {
return (

{props.posts.map((post, index) =>
<li key={index}> <!-- Noncompliant: When 'posts' are reordered, React will need to recreate the
list DOM -->
{post.title}


```
)}
</ul>
);
}
```

To fix it, use a string or a number that uniquely identifies the list item. The key must be unique among its siblings, not globally. If the data comes from a database, database IDs are already unique and are the best option. Otherwise, use a counter or a UUID generator. function Blog(props) {

```
return (
<ul>
{props.posts.map((post) =>
<li key={post.id}>
{post.title}
</li>
)}
</ul>
);
}
```

- useState call is not destructured into value + setter pair

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 16

- **Locations:** web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36 |
  web/app/components/share/text-generation/index.tsx: 96 |
  web/app/components/datasets/formatted-text/flavours/edit-slice.tsx: 36

- **Root Cause:** In React, useState is a hook that allows functional components to manage and update state in a manner similar to class components. When you use the useState hook, it returns an array with two values: the current state value and a function to update that state value. Destructuring these values and naming them symmetrically (i.e., using consistent variable names for both the current state and the update function) is a recommended best practice: When you destructure and name the values symmetrically, it makes your code more readable and self-explanatory. Other developers can quickly understand the purpose of each variable without needing to refer back to the useState function call. Following a naming convention where the state variable and its corresponding update function have similar names is a common practice in the React community. It helps maintain consistency and makes it easier for others to understand your code. If you don't name the variables symmetrically, it can lead to confusion, especially in larger components or when multiple state variables are involved. You might accidentally use the wrong variable when updating the state, which can result in bugs that are hard to track down. import { useState } from 'react';

  function MyComponent() {

  const [count, update] = useState(0); // Noncompliant

  return <div onClick={() => update(count + 1)}>{count}</div>

  }

  You should destructure the return value of useState calls in terms of the current state and a function to update that state and name them symmetrically. import { useState } from 'react';

  function MyComponent() {

  const [count, setCount] = useState(0);

  return <div onClick={() => setCount(count + 1)}>{count}</div>

  }

- Move this component definition out of the parent component and pass data as props.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215 |
  web/app/(commonLayout)/datasets/(datasetDetailLayout)/[datasetId]/layout.tsx: 215

- **Root Cause:** React components should not be nested, as their state will be lost on each re-render of their parent component, possibly introducing bugs. This will also impact performance as child components will be recreated unnecessarily. If the goal is to have the state reset, use a key instead of relying on a parent state. function Component() {

```
function NestedComponent() { // Noncompliant: NestedComponent should be moved outside
Component
return <div />;
}
return (
<div>
<NestedComponent />
</div>
);
}
function Component() {
return (
<div>
<OtherComponent footer={ () => <div /> } /> { /* Noncompliant: Component is created inside
prop */ }
</div>
);
}
class Component extends React.Component {
render() {
function UnstableNestedComponent() { // Noncompliant: NestedComponent should be moved
outside Component
return <div />;
}
return (
<div>
<UnstableNestedComponent />
</div>
);
}
}
```

You should refactor your code to define a component independently, passing props if needed.

```
function OutsideComponent(props) {
return <div />;
}
function Component() {
return (
<div>
<OutsideComponent />
</div>
);
```

```
}
function Component() {
return <OtherComponent footer={ <div /> } />;
}
class Component extends React.Component {
render() {
return (
<div>
<OtherComponent />
</div>
);
}
}
```

Component creation is allowed inside component props only if prop name starts with render. Make sure you are calling the prop in the receiving component and not using it as an element.

```
function OtherComponent(props) {
return <div>{props.renderFooter()}</div>;
}
function Component() {
return (
<div>
<OtherComponent renderFooter={() => <div />} />
</div>
);
}
```

- Split this RUN instruction line into multiple lines.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 8

- **Locations:** api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58 | api/Dockerfile: 58

- **Root Cause:** In Dockerfiles, RUN instruction tend to be extensive and can rapidly become quite long, containing a lot of instruction with parameters and flags. In order to keep a good readability and help for future maintenance, it is important to split them into multiple lines. It is usually a good idea to group elements that belong together on the same lines. The usage of the operator && allows to chain multiple operators. Also, the default operator \ allows to continue the RUN instruction on the next line. Another way is to use the here documents format, which allows to define multiple

instructions together without any chaining operator.

- **How to Fix:** Noncompliant code example RUN apt-get update && apt-get install -y package-bar package-baz
  package-foo package-eel

  Compliant solution # Split shell form

  RUN apt-get update && \

  apt-get install -y \

  package-bar \

  package-baz \

  package-foo \

  package-eel

  # Heredoc form

  RUN <<EOF

  apt-get update

  apt-get install -y \

  package-bar \

  package-baz \

  package-foo \

  package-eel

  EOF

- Remove duplicates in this character class.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10 |
  web/app/account/delete-account/components/verify-email.tsx: 10

- **Root Cause:** Character classes in regular expressions are a convenient way to match one of several possible
  characters by listing the allowed characters or ranges of characters. If the same character is listed
  twice in the same character class or if the character class contains overlapping ranges, this has no
  effect. Thus duplicate characters in a character class are either a simple oversight or a sign that a
  range in the character class matches more than is intended or that the author misunderstood how

character classes work and wanted to match more than one character. A common example of the latter mistake is trying to use a range like [0-99] to match numbers of up to two digits, when in fact it is equivalent to [0-9]. Another common cause is forgetting to escape the - character, creating an unintended range that overlaps with other characters in the character class. Character ranges can also create duplicates when used with character class escapes. These are a type of escape sequence used in regular expressions to represent a specific set of characters. They are denoted by a backslash followed by a specific letter, such as \d for digits, \w for word characters, or \s for whitespace characters. For example, the character class escape \d is equivalent to the character range [0-9], and the escape \w is equivalent to [a-zA-Z0-9_].

- **How to Fix:** Remove the extra character, character range, or character class escape. Noncompliant code example /[0-99]/ // Noncompliant, this won't actually match strings with two digits
  /[0-9.-_]/ // Noncompliant, .-_ is a range that already contains 0-9 (as well as various other characters such as capital letters)
  /[a-z0-9\d]/ // Noncompliant, \d matches a digit and is equivalent to [0-9]
  Compliant solution /[0-9]{1,2}/
  /[0-9.\-_]/
  /[a-z\d]/

- Merge this if statement with the enclosing one.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 32

- **Locations:** api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |
  api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |
  api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |
  api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |
  api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |
  api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |
  api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |
  api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |
  api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |
  api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |
  api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |
  api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |

api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |

api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 630 |

api/core/rag/docstore/dataset_docstore.py: 125 | api/core/agent/fc_agent_runner.py: 250 |

api/core/rag/datasource/vdb/elasticsearch/elasticsearch_vector.py: 140

- **How to Fix:** If merging the conditions seems to result in a more complex code, extracting the condition or part of it in a named function or variable is a better approach to fix readability. Noncompliant code example if file.isValid():

  if file.isfile() or file.isdir():   # Noncompliant

  # ...

  Compliant solution def isFileOrDirectory(File file):

  return file.isFile() or file.isDirectory()

  if file.isValid() and isFileOrDirectory(file): # Compliant

  # ...

- **Root Cause:** Nested code - blocks of code inside blocks of code - is eventually necessary, but increases complexity. This is why keeping the code as flat as possible, by avoiding unnecessary nesting, is considered a good practice. Merging if statements when possible will decrease the nesting of the code and improve its readability. Code like if condition1:

  if condition2:   # Noncompliant

  # ...

  Will be more readable as if condition1 and condition2: # Compliant

  # ...

- This condition is covered by the one on line 103

- **Type:** BUG

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
  web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
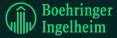web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 105 |
web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/panel.tsx: 114

- **Root Cause:** Both if-else chains and switch statements are used for conditional branching, but they differ in their syntax and the way they handle multiple conditions. In an if-else chain, each condition is checked in order, and only the block associated with the first true condition is executed. If no condition is true, the code inside the else block (if present) will be executed. In a switch statement, the expression is evaluated once, and its value is compared against each case. If a matching case is found, the corresponding block of code is executed. The break statement is used to exit the switch block after a match. If no case matches the expression, the code inside the default block (if present) will be executed. Having the same condition in both if-else chains and switch cases can lead to unreachable code and a potential source of bugs. It defeats the purpose of conditional branching and can make the code harder to read and maintain. if (event === 1) {
  openWindow();
  } else if (event === 2) {
  closeWindow();
  } else if (event === 1) { // Noncompliant: Duplicated condition 'event === 1'
  moveWindowToTheBackground();
  }
  switch (event) {
  case 1:
  openWindow();
  break;
  case 2:
  closeWindow();
  break;
  case 1: // Noncompliant: Duplicated case '1'
  moveWindowToTheBackground();
  break;
  }
  Carefully review your conditions and ensure that they are not duplicated across the if-else chain or switch statement. Use distinct conditions and default blocks to cover all scenarios without redundant checks. if (event === 1) {
  openWindow();
  } else if (event === 2) {
  closeWindow();
  } else if (event === 3) {
  moveWindowToTheBackground();

```
}
switch (event) {
case 1:
openWindow();
break;
case 2:
closeWindow();
break;
case 3:
moveWindowToTheBackground();
break;
}
```

- Replace this "switch" statement by "if" statements to increase readability.

- **Type:**   CODE_SMELL

- **Severity:**   MINOR

- **Count:**   8

- **Locations:**   web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 256

- **Root Cause:**   A switch statement is a control flow statement that allows you to execute different blocks of code based on the value of an expression. It provides a more concise way to handle multiple conditions compared to using multiple if-else statements. If you only have a single condition to check, using an if statement is simpler and more concise. switch statements are designed for handling multiple cases, so using them for a single condition can be overkill and less readable. This rule raises an issue when a switch statement has only one case clause and possibly a default one. switch (condition) { // Noncompliant: The switch has only one case and a default

```
case 0:
doSomething();
break;
default:
doSomethingElse();
break;
```

```
}
```
Use a switch statement when you have multiple cases to handle and an if statement when you
have only one condition to check. if (condition === 0) {
```
doSomething();
} else {
doSomethingElse();
}
```

- Mark the props of the component as read-only.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 40

- **Locations:** web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |

web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25 |
web/app/account/delete-account/components/check-email.tsx: 15 |
web/app/account/delete-account/components/feed-back.tsx: 18 |
web/app/account/delete-account/components/verify-email.tsx: 17 |
web/app/account/delete-account/index.tsx: 15 | web/app/components/base/drawer/index.tsx: 25

- **Root Cause:** React props should be read-only because it helps to enforce the principle of immutability in React functional components. By making props read-only, you ensure that the data passed from a parent component to a child component cannot be modified directly by the child component. This helps maintain a clear data flow and prevents unexpected side effects. If props were mutable, child components could modify the props directly, leading to unpredictable behavior and making it harder to track down bugs. By enforcing read-only props, React promotes a more predictable and maintainable codebase. Additionally, read-only props enable performance optimizations in React's rendering process by avoiding unnecessary re-renders of components. Overall, enforcing read-only props in React helps improve code reliability, maintainability, and performance.

  ```
  interface Props {
  name: string;
  }
  function Welcome(props: Props) { // Noncompliant: The component props are not read-only
  return <div>Hello {props.name}</div>;
  }
  ```

  You should use TypeScript's utility type Readonly to make your functional component props read-only.

  ```
  interface Props {
  name: string;
  }
  function Welcome(props: Readonly<Props>) {
  return <div>Hello {props.name}</div>;
  }
  ```

  Alternatively, you can use TypeScript's modifier readonly to mark all the props of your functional component individually as read-only.

  ```
  interface Props {
  readonly name: string;
  }
  function Welcome(props: Props) {
  return <div>Hello {props.name}</div>;
  }
  ```

- Introduce a new variable or use its initial value before reassigning 'db_variables'.

- **Type:** BUG

- **Severity:** MINOR

- **Count:** 8

- **Locations:** api/core/agent/base_agent_runner.py: 409 | api/core/agent/base_agent_runner.py: 409 |
  api/core/agent/base_agent_runner.py: 409 | api/core/agent/base_agent_runner.py: 409 |
  api/core/agent/base_agent_runner.py: 409 | api/core/agent/base_agent_runner.py: 409 |
  api/core/agent/base_agent_runner.py: 409 | api/core/agent/base_agent_runner.py: 409

- **Root Cause:** While it is technically correct to assign to parameters from within function bodies, doing so before
  the parameter value is read is likely a bug. Instead, initial values of parameters should be, if not
  treated as read-only, then at least read before reassignment. Noncompliant code example def
  foo(strings, param):
  param = 1 # NonCompliant

- The object passed as the value prop to the Context provider changes every render. To fix this consider wrapping it in a useMemo hook.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182 |
  web/app/components/datasets/documents/detail/completed/index.tsx: 572 |
  web/app/components/datasets/documents/detail/index.tsx: 182

- **Root Cause:** Whenever the value property of React context changes, React will rerender the context and all its
  child nodes and consumers. In JavaScript, things like object literals or function expressions will
  create a new identity every time they are evaluated. Such constructions should not be directly used
  as context value because React will always consider they have changed. This can significantly
  impact performance. function Component() {
  return (

```
<SomeContext.Provider value={{foo: 'bar'}}> { /* Noncompliant: value is an object literal */ }
<SomeComponent />
</SomeContext.Provider>
);
}
```

To avoid additional rerenders wrap the value in a useMemo hook. Use the useCallback() hook if the value is a function. function Component() {

```
const obj = useMemo(() => ({foo: 'bar'}), []); // value is cached by useMemo
return (
<SomeContext.Provider value={obj}> { /* Compliant */ }
<SomeComponent />
</SomeContext.Provider>
);
}
```

- Add "lang" and/or "xml:lang" attributes to this "<html>" element

- **Type:** BUG

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2 |
api/templates/delete_account_code_email_template_en-US.html: 2 |
api/templates/delete_account_success_template_en-US.html: 2

- **Root Cause:** The <html> element should provide the lang and/or xml:lang attribute in order to identify the default language of a document. It enables assistive technologies, such as screen readers, to provide a comfortable reading experience by adapting the pronunciation and accent to the

language. It also helps braille translation software, telling it to switch the control codes for accented characters for instance. Other benefits of marking the language include assisting user agents in providing dictionary definitions or helping users benefit from translation tools. Both the lang and the xml:lang attributes can take only one value. Noncompliant code example <!DOCTYPE html>

```
<html> <!-- Noncompliant -->
  <head>
    <title>A page written in english</title>
    <meta content="text/html; charset=utf-8" />
  </head>
  <body>
  ...
  </body>
</html>
```

Compliant solution <!DOCTYPE html>

```
<html lang="en">
  <head>
    <title>A page written in english</title>
    <meta content="text/html; charset=utf-8" />
  </head>
  <body>
  ...
  </body>
</html>
<!DOCTYPE html>
<html lang="en" xml:lang="en">
  <head>
    <title>A page written in english</title>
    <meta content="text/html; charset=utf-8" />
  </head>
  <body>
  ...
  </body>
</html>
```

- Remove this redundant type alias and replace its occurrences with "FetchWorkflowDraftResponse".

- **Type:**   CODE_SMELL

- **Severity:**   MAJOR

- **Count:**   8

- **Locations:** web/types/workflow.ts: 79 | web/types/workflow.ts: 79 | web/types/workflow.ts: 79 |
  web/types/workflow.ts: 79 | web/types/workflow.ts: 79 | web/types/workflow.ts: 79 |
  web/types/workflow.ts: 79 | web/types/workflow.ts: 79

- **Root Cause:** TypeScript provides the type mechanism to create a type alias, that is, a new name to refer to an
  existing type. It is a nice feature to improve code readability and can be used as documentation.
  However, aliasing a primitive type, another alias or everyday types like any or unknown is useless
  and goes against the idea of readable code. As a result, a reader needs to go through the mental
  exercise of remembering the underlying type behind the alias and loses track of the code's primary
  purpose. Common types come with relevant names and should be used as they are.

- **How to Fix:** The type alias should be removed, and all the occurrences of the alias should be replaced with the
  type it referred to. Noncompliant code example type MyString = string;
  type MyBoolean = boolean;
  function isPalindrom(s: MyString): MyBoolean {
  return s === s.split('').reverse().join('');
  }
  Compliant solution function isPalindrom(s: string): boolean {
  return s === s.split('').reverse().join('');
  }

- Rename this field "maxTokens" to match the regular expression ^[_a-z][_a-z0-9]*$.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 232

- **Locations:** api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 13 |
  api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 14 |
  api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 16 |
  api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 30 |
  api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 37 |
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  api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 57 |
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api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 112 |
api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 113 |
api/core/tools/provider/builtin/aws/tools/bedrock_config.py: 114

- **Root Cause:** A naming convention in software development is a set of guidelines for naming code elements like variables, functions, and classes. The goal of a naming convention is to make the code more readable and understandable, which makes it easier to maintain and debug. It also ensures consistency in the code, especially when multiple developers are working on the same project. This rule checks that field names match a provided regular expression. Using the regular

expression ^[_a-z][_a-z0-9]*$, the noncompliant code below: class MyClass:

myField = 1

Should be replaced with: class MyClass:

my_field = 1

- Avoid non-native interactive elements. If using native HTML is not possible, add an appropriate role and support for tabbing, mouse, keyboard, and touch inputs to an interactive content element.

- **Type:**   CODE_SMELL

- **Severity:**   MINOR

- **Count:**   520

- **Locations:**   web/app/components/workflow/nodes/_base/components/node-control.tsx: 47 |
  web/app/components/workflow/nodes/_base/components/node-control.tsx: 53 |
  web/app/components/base/prompt-editor/plugins/component-picker-block/prompt-option.tsx:
  22 |
  web/app/components/base/prompt-editor/plugins/component-picker-block/variable-option.tsx:
  39 |
  web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx:
  121 |
  web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx:
  131 | web/app/components/workflow/note-node/note-editor/toolbar/command.tsx: 66 |
  web/app/components/workflow/note-node/note-editor/toolbar/font-size-selector.tsx: 56 |
  web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 53 |
  web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 63 |
  web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 76 |
  web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 90 |
  web/app/account/account-page/AvatarWithEdit.tsx: 88 |
  web/app/components/datasets/hit-testing/components/result-item-external.tsx: 28 |
  web/app/components/datasets/hit-testing/components/result-item-footer.tsx: 31 |
  web/app/components/app/overview/settings/index.tsx: 352 |
  web/app/components/base/chat/chat/answer/workflow-process.tsx: 85 |
  web/app/components/datasets/create/step-two/option-card.tsx: 62 |
  web/app/components/datasets/hit-testing/components/result-item.tsx: 43 |
  web/app/components/workflow/header/version-history-item.tsx: 49 |
  web/app/components/header/account-dropdown/index.tsx: 119 |
  web/app/components/header/account-dropdown/index.tsx: 185 |
  web/app/components/header/account-dropdown/index.tsx: 199 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 83 |
  web/app/(commonLayout)/datasets/DatasetCard.tsx: 113 |

web/app/components/base/checkbox/index.tsx: 16 |

web/app/components/base/radio-card/index.tsx: 39 |

web/app/components/base/tag-input/index.tsx: 83 | web/app/components/base/tooltip/index.tsx: 99 | web/app/components/datasets/common/document-picker/document-list.tsx: 28 |

web/app/components/datasets/common/document-status-with-action/status-with-action.tsx: 60 | web/app/components/datasets/create/file-uploader/index.tsx: 283 |

web/app/components/datasets/create/file-uploader/index.tsx: 318 |

web/app/components/datasets/create/step-one/index.tsx: 278 |

web/app/components/datasets/create/step-two/index.tsx: 640 |

web/app/components/datasets/create/step-two/index.tsx: 652 |

web/app/components/datasets/create/step-two/index.tsx: 821 |

web/app/components/datasets/create/step-two/language-select/index.tsx: 29 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 102 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 105 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 99 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 141 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 144 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 148 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 191 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 204 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 216 |

web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 134 |

web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 137 |

web/app/components/datasets/documents/detail/index.tsx: 191 |

web/app/components/datasets/documents/detail/metadata/index.tsx: 353 |

web/app/components/datasets/documents/detail/new-segment.tsx: 166 |

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- **Root Cause:** Non-interactive DOM elements are HTML elements that are not designed to be interacted with by the user, for instance <div>, <span>, and <footer>, etc. They are typically used to structure content and do not have built-in interactivity or keyboard accessibility. Interactive handlers, on the other hand, are event handlers that respond to user interactions. These include handlers like onClick, onKeyDown, onMouseUp, and more. When these handlers are added to an HTML element, they make the element respond to the specified user interaction. When non-interactive elements have interactive handlers, it can lead to several problems: Unexpected behavior: Non-interactive elements are not designed to be interactive, so adding interactive handlers can cause unexpected behavior. For example, non-interactive elements do not naturally receive keyboard focus, so keyboard users might not be able to activate the handler. Confusing for assistive technologies: Assistive technologies might not announce non-interactive elements with interactive handlers correctly. This can make it difficult for users to understand how to interact with the content. Violation of HTML standards: Using interactive handlers on non-interactive elements can be seen as a misuse of HTML, as it goes against the intended use of these elements. By enforcing that interactive handlers are only used on interactive elements, this rule helps create a more predictable and user-friendly experience for all users, and ensures that web content adheres to accessibility standards and best practices.

- **How to Fix:** The simplest and most recommended way is to replace the non-interactive elements with interactive ones. If for some reason you can't replace the non-interactive element, you can add an interactive role attribute to it and manually manage its keyboard event handlers and focus. Common interactive roles include button, link, checkbox, menuitem, menuitemcheckbox, menuitemradio, option, radio, searchbox, switch, and textbox. Noncompliant code example <div onClick={() => {}} />; // Noncompliant

  Compliant solution <div onClick={() => {}} role="button" />;

- Prefer using nullish coalescing operator (`??`) instead of a logical or (`||`), as it is a safer operator.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 168

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  web/app/components/datasets/create/step-three/index.tsx: 56 |
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web/service/knowledge/use-document.ts: 56 | web/service/knowledge/use-document.ts: 80

- **Root Cause:** The nullish coalescing operator ?? allows providing a default value when dealing with null or undefined. It only coalesces when the original value is null or undefined. Therefore, it is safer and shorter than relying upon chaining logical || expressions or testing against null or undefined explicitly. This rule reports when disjunctions (||) and conditionals (?) can be safely replaced with coalescing (??). The TSConfig needs to set strictNullChecks to true for the rule to work properly.

- **How to Fix:** Rewrite the logical expression || using ?? on the unchecked operands. Noncompliant code example
  function either(x: number | undefined, y: number) {

  return x || y;

  }

  Compliant solution function either(x: number | undefined, y: number) {

  return x ?? y;

  }

  Noncompliant code example function either(x: number | undefined, y: number) {

  return x !== undefined ? x : y;

  }

  Compliant solution function either(x: number | undefined, y: number) {

  return x ?? y;

  }

- Rename this local variable "rerankingConfiguration" to match the regular expression ^[_a-z][a-z0-9_]*$.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 8

- **Locations:** api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37 |
  api/core/tools/provider/builtin/aws/tools/bedrock_retrieve.py: 37

- **How to Fix:** First, familiarize yourself with the particular naming convention of the project in question. Then, update the name to match the convention, as well as all usages of the name. For many IDEs, you can use built-in renaming and refactoring features to update all usages at once. Noncompliant code example With the default regular expression ^[_a-z][a-z0-9_]*$: def
  print_something(IMPORTANT_PARAM): # Noncompliant
  localVariable = "" # Noncompliant
  print(IMPORTANT_PARAM + localVariable)
  Compliant solution def print_something(important_param):
  local_variable = ""
  print(important_param + local_variable)

- **Root Cause:** A naming convention in software development is a set of guidelines for naming code elements like variables, functions, and classes. Local variables and function parameters hold the meaning of the written code. Their names should be meaningful and follow a consistent and easily recognizable pattern. Adhering to a consistent naming convention helps to make the code more readable and understandable, which makes it easier to maintain and debug. It also ensures consistency in the code, especially when multiple developers are working on the same project. This rule checks that local variable and function parameter names match a provided regular expression. What is the potential impact? Inconsistent naming of local variables and function parameters can lead to several issues in your code: Reduced Readability: Inconsistent local variable and function parameter names make the code harder to read and understand; consequently, it is more difficult to identify the purpose of each variable, spot errors, or comprehend the logic. Difficulty in Identifying Variables: The local variables and function parameters that don't adhere to a standard naming convention are challenging to identify; thus, the coding process slows down, especially when dealing with a large codebase. Increased Risk of Errors: Inconsistent or unclear local variable and function parameter names lead to misunderstandings about what the variable represents. This ambiguity leads to incorrect assumptions and, consequently, bugs in the code. Collaboration Difficulties: In a team setting, inconsistent naming conventions lead to confusion and miscommunication among team members. Difficulty in Code Maintenance: Inconsistent naming leads to an inconsistent codebase. The code is difficult to understand, and making changes feels like refactoring constantly, as you face different naming methods. Ultimately, it makes the codebase harder to maintain. In summary, not adhering to a naming convention for local variables and function parameters can lead to confusion, errors, and inefficiencies, making the code harder to read, understand, and maintain. Exceptions Loop counters of one letter are ignored by this rule.

```
for i in range(limit):  # Compliant
print(i)
```

Local variables matching regular expression ^[_A-Z][A-Z0-9_]*$ are considered as constant and ignored by this rule. Function parameters are not concerned by this exception. def print_something(important_param):

```
LOCAL_VARIABLE = "" # Compliant
print(important_param + LOCAL_VARIABLE)
```

- Refactor this function to reduce its Cognitive Complexity from 42 to the 15 allowed.

- **Type:**   CODE_SMELL

- **Severity:**   CRITICAL

- **Count:**   88

- **Locations:**   web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 | web/app/components/workflow/nodes/_base/node.tsx: 55 | web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 | web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx: 104 | web/app/components/datasets/create/step-two/index.tsx: 146 | web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 | web/app/components/datasets/create/embedding-process/index.tsx: 71 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 | web/app/components/datasets/documents/detail/completed/index.tsx: 534 | web/app/components/datasets/documents/detail/embedding/index.tsx: 70 | web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 | web/app/components/workflow/nodes/_base/node.tsx: 55 | web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 | web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx: 104 | web/app/components/datasets/create/step-two/index.tsx: 146 | web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 | web/app/components/datasets/create/embedding-process/index.tsx: 71 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 | web/app/components/datasets/documents/detail/completed/index.tsx: 534 | web/app/components/datasets/documents/detail/embedding/index.tsx: 70 | web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 | web/app/components/workflow/nodes/_base/node.tsx: 55 | web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 | web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:

104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70 |

web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 |

web/app/components/workflow/nodes/_base/node.tsx: 55 |

web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70 |

web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 |

web/app/components/workflow/nodes/_base/node.tsx: 55 |

web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70 |

web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 |

web/app/components/workflow/nodes/_base/node.tsx: 55 |

web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70 |

web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 |

web/app/components/workflow/nodes/_base/node.tsx: 55 |

web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx:
104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70 |

web/app/components/workflow/nodes/_base/components/variable/var-reference-picker.tsx: 93 |

web/app/components/workflow/nodes/_base/node.tsx: 55 |

web/app/components/workflow/nodes/knowledge-retrieval/utils.ts: 98 |

web/app/(commonLayout)/app/(appDetailLayout)/[appId]/overview/tracing/provider-config-modal.tsx: 104 | web/app/components/datasets/create/step-two/index.tsx: 146 |

web/app/components/datasets/common/retrieval-method-config/index.tsx: 40 |

web/app/components/datasets/create/embedding-process/index.tsx: 71 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 44 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 67 |

web/app/components/datasets/documents/detail/completed/index.tsx: 534 |

web/app/components/datasets/documents/detail/embedding/index.tsx: 70

- **Root Cause:** Cognitive Complexity is a measure of how hard it is to understand the control flow of a unit of code. Code with high cognitive complexity is hard to read, understand, test, and modify. As a rule of thumb, high cognitive complexity is a sign that the code should be refactored into smaller, easier-to-manage pieces. Which syntax in code does impact cognitive complexity score? Here are the core concepts: Cognitive complexity is incremented each time the code breaks the normal linear reading flow. This concerns, for example, loop structures, conditionals, catches, switches, jumps to labels, and conditions mixing multiple operators. Each nesting level increases complexity. During code reading, the deeper you go through nested layers, the harder it becomes to keep the context in mind. Method calls are free A well-picked method name is a summary of multiple lines of code. A reader can first explore a high-level view of what the code is performing then go deeper and deeper by looking at called functions content. Note: This does not apply to recursive calls, those will increment cognitive score. The method of computation is fully detailed in the pdf linked in the resources. Note that the calculation of cognitive complexity at function level deviates from the documented process. Given the functional nature of JavaScript, nesting functions is a prevalent practice, especially within frameworks like React.js. Consequently, the cognitive complexity of functions remains independent from one another. This means that the complexity of a nesting function does not increase with the complexity of nested functions. What is the potential impact? Developers spend more time reading and understanding code than writing it. High cognitive complexity slows down changes and increases the cost of maintenance. Exceptions Cognitive complexity calculations exclude logical expressions using the || and ?? operators. function greet(name) {

  name = name || 'Guest';

  console.log('Hello, ' + name + '!');

  }

- **How to Fix:** Reducing cognitive complexity can be challenging. Here are a few suggestions: Extract complex conditions in a new function. Mixed operators in condition will increase complexity. Extracting the

condition in a new function with an appropriate name will reduce cognitive load. Break down large functions. Large functions can be hard to understand and maintain. If a function is doing too many things, consider breaking it down into smaller, more manageable functions. Each function should have a single responsibility. Avoid deep nesting by returning early. To avoid the nesting of conditions, process exceptional cases first and return early. Use null-safe operations (if available in the language). When available the .? or ?? operator replaces multiple tests and simplifies the flow. Extraction of a complex condition in a new function. Noncompliant code example The code is using a complex condition and has a cognitive cost of 3. function calculateFinalPrice(user, cart) {

```
let total = calculateTotal(cart);
if (user.hasMembership          // +1 (if)
&& user.orders > 10             // +1 (more than one condition)
&& user.accountActive
&& !user.hasDiscount
|| user.orders === 1) {         // +1 (change of operator in condition)
total = applyDiscount(user, total);
}
return total;
}
```

Compliant solution Even if the cognitive complexity of the whole program did not change, it is easier for a reader to understand the code of the calculateFinalPrice function, which now only has a cognitive cost of 1. function calculateFinalPrice(user, cart) {

```
let total = calculateTotal(cart);
if (isEligibleForDiscount(user)) {     // +1 (if)
total = applyDiscount(user, total);
}
return total;
}
function isEligibleForDiscount(user) {
return user.hasMembership
&& user.orders > 10             // +1 (more than one condition)
&& user.accountActive
&& !user.hasDiscount
|| user.orders === 1            // +1 (change of operator in condition)
}
```

Break down large functions. Noncompliant code example For example, consider a function that calculates the total price of a shopping cart, including sales tax and shipping. Note: The code is simplified here, to illustrate the purpose. Please imagine there is more happening in the for loops. function calculateTotal(cart) {

```
let total = 0;
for (let i = 0; i < cart.length; i++) {     // +1 (for)
total += cart[i].price;
}
// calculateSalesTax
for (let i = 0; i < cart.length; i++) {     // +1 (for)
total += 0.2 * cart[i].price;
```

```
}
//calculateShipping
total += 5 * cart.length;
return total;
}
```

This function could be refactored into smaller functions: The complexity is spread over multiple functions and the complex calculateTotal has now a complexity score of zero. Compliant solution

```
function calculateTotal(cart) {
let total = calculateSubtotal(cart);
total += calculateSalesTax(cart);
total += calculateShipping(cart);
return total;
}
function calculateSubtotal(cart) {
let subTotal = 0;
for (const item of cart) {      // +1 (for)
subTotal += item.price;
}
return subTotal;
}
function calculateSalesTax(cart) {
let salesTax = 0;
for (const item of cart) {      // +1 (for)
salesTax += 0.2 * item.price;
}
return salesTax;
}
function calculateShipping(cart) {
return 5 * cart.length;
}
```

Avoid deep nesting by returning early. Noncompliant code example The below code has a cognitive complexity of 6.

```
function calculateDiscount(price, user) {
if (isEligibleForDiscount(user)) {  // +1 ( if )
if (user?.hasMembership) {      // +2 ( nested if )
return price * 0.9;
} else if (user?.orders === 1 ) {  // +1 ( else )
return price * 0.95;
} else {                // +1 ( else )
return price;
}
} else {                // +1 ( else )
return price;
}
}
```

Compliant solution Checking for the edge case first flattens the if statements and reduces the

cognitive complexity to 3. function calculateDiscount(price, user) {

if (!isEligibleForDiscount(user)) { // +1 (if)

return price;

}

if (user?.hasMembership) {   // +1 (if)

return price * 0.9;

}

if (user?.orders === 1) {   // +1 (if)

return price * 0.95;

}

return price;

}

Use the optional chaining operator to access data. In the below code, the cognitive complexity is increased due to the multiple checks required to access the manufacturer's name. This can be simplified using the optional chaining operator. Noncompliant code example let manufacturerName = null;

if (product && product.details && product.details.manufacturer) { // +1 (if) +1 (multiple condition)

manufacturerName = product.details.manufacturer.name;

}

if (manufacturerName) { // +1 (if)

console.log(manufacturerName);

} else {

console.log('Manufacturer name not found');

}

Compliant solution The optional chaining operator will return undefined if any reference in the chain is undefined or null, avoiding multiple checks: let manufacturerName = product?.details?.manufacturer?.name;

if (manufacturerName) { // +1 (if)

console.log(manufacturerName);

} else {

console.log('Manufacturer name not found');

}

Pitfalls As this code is complex, ensure that you have unit tests that cover the code before refactoring.

- Refactor this code to not nest functions more than 4 levels deep.

- **Type:** CODE_SMELL

- **Severity:** CRITICAL

- **Count:** 8

- **Locations:** web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85 |
  web/app/components/header/account-dropdown/workplace-selector/index.tsx: 85

- **Root Cause:** Nested functions refer to the practice of defining a function within another function. These inner
  functions have access to the variables and parameters of the outer function, creating a closure.
  While nesting functions is a common practice in JavaScript, deeply nested functions can make the
  code harder to read and understand, especially if the functions are long or if there are many levels
  of nesting. This can make it difficult for other developers or even yourself to understand and
  maintain the code. Noncompliant code example With the default threshold of 4 levels: function f()
  {
  function f_inner() {
  function f_inner_inner() {
  function f_inner_inner_inner() {
  function f_inner_inner_inner_inner() { // Noncompliant
  }
  }
  }
  }
  }

- Non-interactive elements should not be assigned mouse or keyboard event listeners.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 8

- **Locations:** web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269 |
  web/app/components/datasets/create/file-uploader/index.tsx: 269

- **Root Cause:** Attaching event handlers to non-interactive HTML elements can lead to significant accessibility issues. These elements, such as <div> and <span>, are not designed to interact with assistive technologies like screen readers, making it difficult for users with disabilities to navigate and interact with the website. Additionally, these elements may not be focusable or provide visual feedback when interacted with, resulting in a confusing and potentially frustrating user experience. Therefore, to maintain an accessible and user-friendly website, event handlers should be used exclusively with interactive elements. The rule only considers the handlers onClick, onMouseDown, onMouseUp, onKeyPress, onKeyDown, and onKeyUp.

- **How to Fix:** To fix this issue, remove the event handler from the non-interactive element and attach it to an interactive element instead. If the element is not interactive, it should not have an event handler.
  Noncompliant code example <li onClick={() => void 0} />
  <div onClick={() => void 0} role="listitem" />
  Compliant solution <div onClick={() => void 0} role="button" />
  <div onClick={() => void 0} role="presentation" />
  <input type="text" onClick={() => void 0} /> // Interactive element does not require role.
  <button onClick={() => void 0} className="foo" /> // button is interactive.
  <div onClick={() => void 0} role="button" aria-hidden /> // This is hidden from the screenreader.

- The signature '(commandId: string, showUI?: boolean | undefined, value?: string | undefined): boolean' of 'document.execCommand' is deprecated.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 8

- **Locations:** web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16 | web/utils/clipboard.ts: 16

- **Root Cause:** Code is sometimes annotated as deprecated by developers maintaining libraries or APIs to indicate that the method, class, or other programming element is no longer recommended for use. This is typically due to the introduction of a newer or more effective alternative. For example, when a better solution has been identified, or when the existing code presents potential errors or security risks. Deprecation is a good practice because it helps to phase out obsolete code in a controlled manner, without breaking existing software that may still depend on it. It is a way to warn other developers not to use the deprecated element in new code, and to replace it in existing code when possible. Deprecated classes, interfaces, and their members should not be used, inherited or extended because they will eventually be removed. The deprecation period allows you to make a smooth transition away from the aging, soon-to-be-retired technology. Check the documentation or the deprecation message to understand why the code was deprecated and what the

recommended alternative is. /**
* @deprecated Use newFunction instead.
*/
function oldFunction() {
console.log("This is the old function.");
}
function newFunction() {
console.log("This is the new function.");
}
oldFunction(); // Noncompliant: "oldFunction is deprecated"

- 'appStatus' PropType is defined but prop is never used

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 16

- **Locations:** web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77 |
web/app/components/base/linked-apps-panel/index.tsx: 12 |
web/app/components/datasets/create/step-two/index.tsx: 77

- **How to Fix:** Noncompliant code example import PropTypes from 'prop-types';
import React from 'react';
class Hello extends React.Component {
render() {
return (
<h1>Hello</h1>
);

```
}
}
Hello.propTypes = {
name: PropTypes.string
};
Compliant solution import PropTypes from 'prop-types';
import React from 'react';
class Hello extends React.Component {
render() {
return (
<h1>Hello {this.props.name}</h1>
);
}
}
Hello.propTypes = {
name: PropTypes.string
};
```

- **Root Cause:** Leaving unused props in a React component can make the code harder to understand and maintain. Other developers may wonder why certain props are passed to a component if they are not used. Unused props can also increase the size of the component's memory footprint and impact performance. This is especially true if the unused props are large objects or arrays. Furthermore, if a prop is unused, it may indicate that the developer did not complete the implementation as he intended initially or made a mistake while writing the component. To avoid these issues, you should remove any unused props from React components. This helps keep the codebase clean, improves performance, and enhances code readability.

- **How to Fix:** Noncompliant code example import React from 'react';

```
type Props = {
name: string;
}
class Hello extends React.Component<Props> {
render() {
return <div>Hello</div>;
}
}
Compliant solution import React from 'react';
type Props = {
name: string;
};
class Hello extends React.Component<Props> {
render() {
return <div>Hello {this.props.name}</div>;
}
}
```

- Refactor this code to not use nested template literals.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 24

- **Locations:** web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 163 | web/app/components/datasets/documents/detail/completed/common/regeneration-modal.tsx: 85 | web/app/components/datasets/documents/detail/index.tsx: 109

- **Root Cause:** Template literals, also known as template strings, allow for string interpolation and multiline strings in JavaScript. They provide a more convenient and flexible way to work with strings compared to traditional string concatenation or manipulation. Template literals are delimited with the backtick (`` ` ``) character. They are a convenient way to include variables or expressions within a string using placeholders `` `${expression}` `` in the string and evaluate them dynamically. However, nesting template literals can make the code less readable. With each nested template literal, the code becomes more complex and harder to understand. It can be challenging to keep track of the opening and closing backticks and properly escape characters if needed. const color = "red";

const count = 3;

const message = `` `I have ${color ? `${count} ${color}` : count} apples` ``; // Noncompliant: nested

template strings not easy to read

In such situations, moving the nested template into a separate statement is preferable. const color
= "red";

const count = 3;

const apples = color ? ` ${count} ${color}` : count;

const message = ` I have ${apples} apples`;

The rule makes an exception for nested template literals spanning multiple lines. It allows you to
visually separate different sections and gives you more freedom in formatting your text, including
line breaks, indentation, and other formatting elements, enhancing readability. const name =
'John';

const age = 42;

const message = ` Hello ${name}!

You are ${age} years old.

${` This is a nested template literal.` }

It can span multiple lines.` ;

- Specify an exception class to catch or reraise the exception

- **Type:** CODE_SMELL

- **Severity:** CRITICAL

- **Count:** 16

- **Locations:** api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343 |
  api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 200 |
  api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 343

- **How to Fix:** Re-raise SystemExit, BaseException and any exceptions caught in a bare except clause.
  Noncompliant code example try:

```
...
except SystemExit:  # Noncompliant: the SystemExit exception is not re-raised.
pass
try:
...
except BaseException:  # Noncompliant: BaseExceptions encompass SystemExit exceptions and
should be re-raised.
pass
try:
...
except:  # Noncompliant: exceptions caught by this statement should be re-raised or a more
specific exception should be caught.
pass
```

Compliant solution try:

```
...
except SystemExit as e:
...
raise e
try:
...
except BaseException as e:
...
raise e
try:
...
except FileNotFoundError:
... # Handle a more specific exception
```

- **Root Cause:** A SystemExit exception is raised when sys.exit() is called. This exception is used to signal the interpreter to exit. The exception is expected to propagate up until the program stops. It is possible to catch this exception in order to perform, for example, clean-up tasks. It should, however, be raised again to allow the interpreter to exit as expected. Not re-raising such exception could lead to undesired behaviour. A bare except: statement, i.e. an except block without any exception class, is equivalent to except BaseException. Both statements will catch every exceptions, including SystemExit. It is recommended to catch instead a more specific exception. If it is not possible, the exception should be raised again. It is also a good idea to re-raise the KeyboardInterrupt exception. Similarly to SystemExit,KeyboardInterrupt is used to signal the interpreter to exit. Not re-raising such exception could also lead to undesired behaviour.

- Refactor this function to reduce its Cognitive Complexity from 21 to the 15 allowed.

- **Type:** CODE_SMELL

- **Severity:** CRITICAL

- **Count:** 808

- **Locations:** api/core/app/apps/agent_chat/app_runner.py: 32 |
api/core/model_runtime/model_providers/deepseek/llm/llm.py: 43 |
api/core/rag/extractor/firecrawl/firecrawl_app.py: 55 | api/core/agent/cot_agent_runner.py: 36 |
api/services/dataset_service.py: 1581 |
api/core/model_runtime/model_providers/openai/llm/llm.py: 555 |
api/core/tools/provider/builtin/bing/tools/bing_web_search.py: 13 |
api/core/tools/utils/message_transformer.py: 14 | api/services/dataset_service.py: 754 |
api/services/dataset_service.py: 1193 | api/core/provider_manager.py: 829 |
api/core/tools/utils/parser.py: 20 | api/core/ops/opik_trace/opik_trace.py: 96 |
api/services/ops_service.py: 10 | api/controllers/console/app/audio.py: 82 |
api/services/audio_service.py: 70 | api/core/workflow/nodes/variable_assigner/v2/node.py: 31 |
api/services/dataset_service.py: 75 | api/tasks/deal_dataset_vector_index_task.py: 16 |
api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_on_qdrant_vector.py: 407 |
api/core/workflow/nodes/document_extractor/node.py: 204 | api/core/tools/tool/api_tool.py: 134 |
api/core/app/apps/advanced_chat/generate_task_pipeline.py: 256 |
api/core/app/apps/workflow/generate_task_pipeline.py: 225 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 32 |
api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |
api/services/app_dsl_service.py: 83 |
api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 293 |
api/core/model_runtime/model_providers/openai/llm/llm.py: 746 |
api/core/workflow/workflow_entry.py: 221 | api/core/workflow/nodes/http_request/executor.py:
161 | api/controllers/console/auth/login.py: 41 | api/controllers/console/auth/login.py: 172 |
api/controllers/console/auth/oauth.py: 63 | api/core/rag/extractor/notion_extractor.py: 134 |
api/core/agent/base_agent_runner.py: 320 |
api/core/tools/provider/builtin/comfyui/tools/comfyui_workflow.py: 27 |
api/events/event_handlers/update_app_dataset_join_when_app_model_config_updated.py: 42 |
api/core/workflow/graph_engine/entities/graph.py: 552 |
api/schedule/mail_clean_document_notify_task.py: 18 |
api/core/rag/extractor/extract_processor.py: 90 | api/core/indexing_runner.py: 234 |
api/core/rag/datasource/retrieval_service.py: 256 | api/core/rag/docstore/dataset_docstore.py: 63 |
api/core/rag/index_processor/processor/paragraph_index_processor.py: 31 |
api/core/rag/index_processor/processor/qa_index_processor.py: 37 |
api/services/dataset_service.py: 1073 | api/services/vector_service.py: 18 |
api/tasks/batch_clean_document_task.py: 16 |
api/controllers/console/datasets/datasets_document.py: 785 | api/core/indexing_runner.py: 161 |
api/core/rag/extractor/word_extractor.py: 209 | api/core/rag/retrieval/dataset_retrieval.py: 50 |
api/core/workflow/nodes/knowledge_retrieval/knowledge_retrieval_node.py: 89 |
api/schedule/clean_unused_datasets_task.py: 18 | api/services/dataset_service.py: 1296 |
api/services/dataset_service.py: 1790 | api/services/dataset_service.py: 1902 |
api/tasks/enable_segments_to_index_task.py: 18 |

api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 271 |

api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 382 |

api/core/entities/provider_configuration.py: 768 | api/services/tools/tools_transform_service.py:
236 | api/commands.py: 418 | api/commands.py: 605 |

api/controllers/console/app/model_config.py: 26 | api/controllers/console/app/wraps.py: 11 |

api/controllers/service_api/wraps.py: 37 | api/core/agent/base_agent_runner.py: 134 |

api/core/agent/base_agent_runner.py: 242 | api/core/agent/cot_agent_runner.py: 381 |

api/core/agent/cot_completion_agent_runner.py: 34 | api/core/agent/fc_agent_runner.py: 35 |

api/core/agent/output_parser/cot_output_parser.py: 12 |

api/core/app/app_config/easy_ui_based_app/dataset/manager.py: 12 |

api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 84 |

api/core/app/apps/advanced_chat/app_runner.py: 51 | api/core/app/apps/base_app_runner.py: 97 |

api/core/app/apps/base_app_runner.py: 134 | api/core/app/apps/workflow_app_runner.py: 174 |

api/core/app/task_pipeline/easy_ui_based_generate_task_pipeline.py: 247 |

api/core/entities/provider_configuration.py: 80 | api/core/entities/provider_configuration.py: 178 |

api/core/indexing_runner.py: 330 | api/core/model_manager.py: 325 |

api/core/model_runtime/model_providers/__base/ai_model.py: 247 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 276 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 331 |

api/core/model_runtime/model_providers/minimax/llm/chat_completion_pro.py: 140 |

api/core/model_runtime/model_providers/xinference/xinference_helper.py: 71 |

api/core/ops/langsmith_trace/langsmith_trace.py: 65 | api/core/provider_manager.py: 532 |

api/core/provider_manager.py: 669 | api/core/rag/datasource/vdb/lindorm/lindorm_vector.py: 417
| api/core/rag/embedding/cached_embedding.py: 27 | api/core/rag/extractor/excel_extractor.py: 27
| api/core/rag/extractor/word_extractor.py: 79 | api/core/rag/retrieval/dataset_retrieval.py: 230 |

api/core/rag/retrieval/dataset_retrieval.py: 336 | api/core/rag/retrieval/dataset_retrieval.py: 478 |

api/core/rag/retrieval/dataset_retrieval.py: 535 | api/core/app/apps/agent_chat/app_runner.py: 32 |

api/core/model_runtime/model_providers/deepseek/llm/llm.py: 43 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 55 | api/core/agent/cot_agent_runner.py: 36 |

api/services/dataset_service.py: 1581 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 555 |

api/core/tools/provider/builtin/bing/tools/bing_web_search.py: 13 |

api/core/tools/utils/message_transformer.py: 14 | api/services/dataset_service.py: 754 |

api/services/dataset_service.py: 1193 | api/core/provider_manager.py: 829 |

api/core/tools/utils/parser.py: 20 | api/core/ops/opik_trace/opik_trace.py: 96 |

api/services/ops_service.py: 10 | api/controllers/console/app/audio.py: 82 |

api/services/audio_service.py: 70 | api/core/workflow/nodes/variable_assigner/v2/node.py: 31 |

api/services/dataset_service.py: 75 | api/tasks/deal_dataset_vector_index_task.py: 16 |

api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_on_qdrant_vector.py: 407 |

api/core/workflow/nodes/document_extractor/node.py: 204 | api/core/tools/tool/api_tool.py: 134 |

api/core/app/apps/advanced_chat/generate_task_pipeline.py: 256 |

api/core/app/apps/workflow/generate_task_pipeline.py: 225 |

api/core/rag/index_processor/processor/parent_child_index_processor.py: 32 |

api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |

api/services/app_dsl_service.py: 83 |

api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 293 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 746 |

api/core/workflow/workflow_entry.py: 221 | api/core/workflow/nodes/http_request/executor.py: 161 | api/controllers/console/auth/login.py: 41 | api/controllers/console/auth/login.py: 172 |

api/controllers/console/auth/oauth.py: 63 | api/core/rag/extractor/notion_extractor.py: 134 |

api/core/agent/base_agent_runner.py: 320 |

api/core/tools/provider/builtin/comfyui/tools/comfyui_workflow.py: 27 |

api/events/event_handlers/update_app_dataset_join_when_app_model_config_updated.py: 42 |

api/core/workflow/graph_engine/entities/graph.py: 552 |

api/schedule/mail_clean_document_notify_task.py: 18 |

api/core/rag/extractor/extract_processor.py: 90 | api/core/indexing_runner.py: 234 |

api/core/rag/datasource/retrieval_service.py: 256 | api/core/rag/docstore/dataset_docstore.py: 63 |

api/core/rag/index_processor/processor/paragraph_index_processor.py: 31 |

api/core/rag/index_processor/processor/qa_index_processor.py: 37 |

api/services/dataset_service.py: 1073 | api/services/vector_service.py: 18 |

api/tasks/batch_clean_document_task.py: 16 |

api/controllers/console/datasets/datasets_document.py: 785 | api/core/indexing_runner.py: 161 |

api/core/rag/extractor/word_extractor.py: 209 | api/core/rag/retrieval/dataset_retrieval.py: 50 |

api/core/workflow/nodes/knowledge_retrieval/knowledge_retrieval_node.py: 89 |

api/schedule/clean_unused_datasets_task.py: 18 | api/services/dataset_service.py: 1296 |

api/services/dataset_service.py: 1790 | api/services/dataset_service.py: 1902 |

api/tasks/enable_segments_to_index_task.py: 18 |

api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 271 |

api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 382 |

api/core/entities/provider_configuration.py: 768 | api/services/tools/tools_transform_service.py: 236 | api/commands.py: 418 | api/commands.py: 605 |

api/controllers/console/app/model_config.py: 26 | api/controllers/console/app/wraps.py: 11 |

api/controllers/service_api/wraps.py: 37 | api/core/agent/base_agent_runner.py: 134 |

api/core/agent/base_agent_runner.py: 242 | api/core/agent/cot_agent_runner.py: 381 |

api/core/agent/cot_completion_agent_runner.py: 34 | api/core/agent/fc_agent_runner.py: 35 |

api/core/agent/output_parser/cot_output_parser.py: 12 |

api/core/app/app_config/easy_ui_based_app/dataset/manager.py: 12 |

api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 84 |

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api/core/app/apps/base_app_runner.py: 134 | api/core/app/apps/workflow_app_runner.py: 174 |

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api/core/entities/provider_configuration.py: 80 | api/core/entities/provider_configuration.py: 178 |

api/core/indexing_runner.py: 330 | api/core/model_manager.py: 325 |

api/core/model_runtime/model_providers/__base/ai_model.py: 247 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 276 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 331 |

api/core/model_runtime/model_providers/minimax/llm/chat_completion_pro.py: 140 |

api/core/model_runtime/model_providers/xinference/xinference_helper.py: 71 |

api/core/ops/langsmith_trace/langsmith_trace.py: 65 | api/core/provider_manager.py: 532 |

api/core/provider_manager.py: 669 | api/core/rag/datasource/vdb/lindorm/lindorm_vector.py: 417

| api/core/rag/embedding/cached_embedding.py: 27 | api/core/rag/extractor/excel_extractor.py: 27
| api/core/rag/extractor/word_extractor.py: 79 | api/core/rag/retrieval/dataset_retrieval.py: 230 |
api/core/rag/retrieval/dataset_retrieval.py: 336 | api/core/rag/retrieval/dataset_retrieval.py: 478 |
api/core/rag/retrieval/dataset_retrieval.py: 535 | api/core/app/apps/agent_chat/app_runner.py: 32 |
api/core/model_runtime/model_providers/deepseek/llm/llm.py: 43 |
api/core/rag/extractor/firecrawl/firecrawl_app.py: 55 | api/core/agent/cot_agent_runner.py: 36 |
api/services/dataset_service.py: 1581 |
api/core/model_runtime/model_providers/openai/llm/llm.py: 555 |
api/core/tools/provider/builtin/bing/tools/bing_web_search.py: 13 |
api/core/tools/utils/message_transformer.py: 14 | api/services/dataset_service.py: 754 |
api/services/dataset_service.py: 1193 | api/core/provider_manager.py: 829 |
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api/services/ops_service.py: 10 | api/controllers/console/app/audio.py: 82 |
api/services/audio_service.py: 70 | api/core/workflow/nodes/variable_assigner/v2/node.py: 31 |
api/services/dataset_service.py: 75 | api/tasks/deal_dataset_vector_index_task.py: 16 |
api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_on_qdrant_vector.py: 407 |
api/core/workflow/nodes/document_extractor/node.py: 204 | api/core/tools/tool/api_tool.py: 134 |
api/core/app/apps/advanced_chat/generate_task_pipeline.py: 256 |
api/core/app/apps/workflow/generate_task_pipeline.py: 225 |
api/core/rag/index_processor/processor/parent_child_index_processor.py: 32 |
api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |
api/services/app_dsl_service.py: 83 |
api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 293 |
api/core/model_runtime/model_providers/openai/llm/llm.py: 746 |
api/core/workflow/workflow_entry.py: 221 | api/core/workflow/nodes/http_request/executor.py:
161 | api/controllers/console/auth/login.py: 41 | api/controllers/console/auth/login.py: 172 |
api/controllers/console/auth/oauth.py: 63 | api/core/rag/extractor/notion_extractor.py: 134 |
api/core/agent/base_agent_runner.py: 320 |
api/core/tools/provider/builtin/comfyui/tools/comfyui_workflow.py: 27 |
api/events/event_handlers/update_app_dataset_join_when_app_model_config_updated.py: 42 |
api/core/workflow/graph_engine/entities/graph.py: 552 |
api/schedule/mail_clean_document_notify_task.py: 18 |
api/core/rag/extractor/extract_processor.py: 90 | api/core/indexing_runner.py: 234 |
api/core/rag/datasource/retrieval_service.py: 256 | api/core/rag/docstore/dataset_docstore.py: 63 |
api/core/rag/index_processor/processor/paragraph_index_processor.py: 31 |
api/core/rag/index_processor/processor/qa_index_processor.py: 37 |
api/services/dataset_service.py: 1073 | api/services/vector_service.py: 18 |
api/tasks/batch_clean_document_task.py: 16 |
api/controllers/console/datasets/datasets_document.py: 785 | api/core/indexing_runner.py: 161 |
api/core/rag/extractor/word_extractor.py: 209 | api/core/rag/retrieval/dataset_retrieval.py: 50 |
api/core/workflow/nodes/knowledge_retrieval/knowledge_retrieval_node.py: 89 |
api/schedule/clean_unused_datasets_task.py: 18 | api/services/dataset_service.py: 1296 |
api/services/dataset_service.py: 1790 | api/services/dataset_service.py: 1902 |
api/tasks/enable_segments_to_index_task.py: 18 |
api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 271 |

api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 382 |

api/core/entities/provider_configuration.py: 768 | api/services/tools/tools_transform_service.py: 236 | api/commands.py: 418 | api/commands.py: 605 |

api/controllers/console/app/model_config.py: 26 | api/controllers/console/app/wraps.py: 11 |

api/controllers/service_api/wraps.py: 37 | api/core/agent/base_agent_runner.py: 134 |

api/core/agent/base_agent_runner.py: 242 | api/core/agent/cot_agent_runner.py: 381 |

api/core/agent/cot_completion_agent_runner.py: 34 | api/core/agent/fc_agent_runner.py: 35 |

api/core/agent/output_parser/cot_output_parser.py: 12 |

api/core/app/app_config/easy_ui_based_app/dataset/manager.py: 12 |

api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 84 |

api/core/app/apps/advanced_chat/app_runner.py: 51 | api/core/app/apps/base_app_runner.py: 97 |

api/core/app/apps/base_app_runner.py: 134 | api/core/app/apps/workflow_app_runner.py: 174 |

api/core/app/task_pipeline/easy_ui_based_generate_task_pipeline.py: 247 |

api/core/entities/provider_configuration.py: 80 | api/core/entities/provider_configuration.py: 178 |

api/core/indexing_runner.py: 330 | api/core/model_manager.py: 325 |

api/core/model_runtime/model_providers/__base/ai_model.py: 247 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 276 |

api/core/model_runtime/model_providers/__base/large_language_model.py: 331 |

api/core/model_runtime/model_providers/minimax/llm/chat_completion_pro.py: 140 |

api/core/model_runtime/model_providers/xinference/xinference_helper.py: 71 |

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api/core/provider_manager.py: 669 | api/core/rag/datasource/vdb/lindorm/lindorm_vector.py: 417 | api/core/rag/embedding/cached_embedding.py: 27 | api/core/rag/extractor/excel_extractor.py: 27 | api/core/rag/extractor/word_extractor.py: 79 | api/core/rag/retrieval/dataset_retrieval.py: 230 |

api/core/rag/retrieval/dataset_retrieval.py: 336 | api/core/rag/retrieval/dataset_retrieval.py: 478 |

api/core/rag/retrieval/dataset_retrieval.py: 535 | api/core/app/apps/agent_chat/app_runner.py: 32 |

api/core/model_runtime/model_providers/deepseek/llm/llm.py: 43 |

api/core/rag/extractor/firecrawl/firecrawl_app.py: 55 | api/core/agent/cot_agent_runner.py: 36 |

api/services/dataset_service.py: 1581 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 555 |

api/core/tools/provider/builtin/bing/tools/bing_web_search.py: 13 |

api/core/tools/utils/message_transformer.py: 14 | api/services/dataset_service.py: 754 |

api/services/dataset_service.py: 1193 | api/core/provider_manager.py: 829 |

api/core/tools/utils/parser.py: 20 | api/core/ops/opik_trace/opik_trace.py: 96 |

api/services/ops_service.py: 10 | api/controllers/console/app/audio.py: 82 |

api/services/audio_service.py: 70 | api/core/workflow/nodes/variable_assigner/v2/node.py: 31 |

api/services/dataset_service.py: 75 | api/tasks/deal_dataset_vector_index_task.py: 16 |

api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_on_qdrant_vector.py: 407 |

api/core/workflow/nodes/document_extractor/node.py: 204 | api/core/tools/tool/api_tool.py: 134 |

api/core/app/apps/advanced_chat/generate_task_pipeline.py: 256 |

api/core/app/apps/workflow/generate_task_pipeline.py: 225 |

api/core/rag/index_processor/processor/parent_child_index_processor.py: 32 |

api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |

api/services/app_dsl_service.py: 83 |

api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 293 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 746 |

api/core/workflow/workflow_entry.py: 221 | api/core/workflow/nodes/http_request/executor.py: 161 | api/controllers/console/auth/login.py: 41 | api/controllers/console/auth/login.py: 172 |

api/controllers/console/auth/oauth.py: 63 | api/core/rag/extractor/notion_extractor.py: 134 |

api/core/agent/base_agent_runner.py: 320 |

api/core/tools/provider/builtin/comfyui/tools/comfyui_workflow.py: 27 |

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api/schedule/mail_clean_document_notify_task.py: 18 |

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api/core/rag/index_processor/processor/qa_index_processor.py: 37 |

api/services/dataset_service.py: 1073 | api/services/vector_service.py: 18 |

api/tasks/batch_clean_document_task.py: 16 |

api/controllers/console/datasets/datasets_document.py: 785 | api/core/indexing_runner.py: 161 |

api/core/rag/extractor/word_extractor.py: 209 | api/core/rag/retrieval/dataset_retrieval.py: 50 |

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api/services/dataset_service.py: 1790 | api/services/dataset_service.py: 1902 |

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api/core/entities/provider_configuration.py: 768 | api/services/tools/tools_transform_service.py: 236 | api/commands.py: 418 | api/commands.py: 605 |

api/controllers/console/app/model_config.py: 26 | api/controllers/console/app/wraps.py: 11 |

api/controllers/service_api/wraps.py: 37 | api/core/agent/base_agent_runner.py: 134 |

api/core/agent/base_agent_runner.py: 242 | api/core/agent/cot_agent_runner.py: 381 |

api/core/agent/cot_completion_agent_runner.py: 34 | api/core/agent/fc_agent_runner.py: 35 |

api/core/agent/output_parser/cot_output_parser.py: 12 |

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api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 84 |

api/core/app/apps/advanced_chat/app_runner.py: 51 | api/core/app/apps/base_app_runner.py: 97 |

api/core/app/apps/base_app_runner.py: 134 | api/core/app/apps/workflow_app_runner.py: 174 |

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api/core/entities/provider_configuration.py: 80 | api/core/entities/provider_configuration.py: 178 |

api/core/indexing_runner.py: 330 | api/core/model_manager.py: 325 |

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api/core/model_runtime/model_providers/__base/large_language_model.py: 331 |

api/core/model_runtime/model_providers/minimax/llm/chat_completion_pro.py: 140 |

api/core/model_runtime/model_providers/xinference/xinference_helper.py: 71 |

api/core/ops/langsmith_trace/langsmith_trace.py: 65 | api/core/provider_manager.py: 532 |

api/core/provider_manager.py: 669 | api/core/rag/datasource/vdb/lindorm/lindorm_vector.py: 417 | api/core/rag/embedding/cached_embedding.py: 27 | api/core/rag/extractor/excel_extractor.py: 27

| api/core/rag/extractor/word_extractor.py: 79 | api/core/rag/retrieval/dataset_retrieval.py: 230 |
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api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |
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api/core/model_runtime/model_providers/openai/llm/llm.py: 555 |

api/core/tools/provider/builtin/bing/tools/bing_web_search.py: 13 |

api/core/tools/utils/message_transformer.py: 14 | api/services/dataset_service.py: 754 |

api/services/dataset_service.py: 1193 | api/core/provider_manager.py: 829 |

api/core/tools/utils/parser.py: 20 | api/core/ops/opik_trace/opik_trace.py: 96 |

api/services/ops_service.py: 10 | api/controllers/console/app/audio.py: 82 |

api/services/audio_service.py: 70 | api/core/workflow/nodes/variable_assigner/v2/node.py: 31 |

api/services/dataset_service.py: 75 | api/tasks/deal_dataset_vector_index_task.py: 16 |

api/core/rag/datasource/vdb/tidb_on_qdrant/tidb_on_qdrant_vector.py: 407 |

api/core/workflow/nodes/document_extractor/node.py: 204 | api/core/tools/tool/api_tool.py: 134 |

api/core/app/apps/advanced_chat/generate_task_pipeline.py: 256 |

api/core/app/apps/workflow/generate_task_pipeline.py: 225 |

api/core/rag/index_processor/processor/parent_child_index_processor.py: 32 |

api/core/model_runtime/model_providers/zhipuai/llm/llm.py: 104 |

api/services/app_dsl_service.py: 83 |

api/core/model_runtime/model_providers/openai_api_compatible/llm/llm.py: 293 |

api/core/model_runtime/model_providers/openai/llm/llm.py: 746 |

api/core/workflow/workflow_entry.py: 221 | api/core/workflow/nodes/http_request/executor.py:

161 | api/controllers/console/auth/login.py: 41 | api/controllers/console/auth/login.py: 172 |
api/controllers/console/auth/oauth.py: 63 | api/core/rag/extractor/notion_extractor.py: 134 |
api/core/agent/base_agent_runner.py: 320 |
api/core/tools/provider/builtin/comfyui/tools/comfyui_workflow.py: 27 |
api/events/event_handlers/update_app_dataset_join_when_app_model_config_updated.py: 42 |
api/core/workflow/graph_engine/entities/graph.py: 552 |
api/schedule/mail_clean_document_notify_task.py: 18 |
api/core/rag/extractor/extract_processor.py: 90 | api/core/indexing_runner.py: 234 |
api/core/rag/datasource/retrieval_service.py: 256 | api/core/rag/docstore/dataset_docstore.py: 63 |
api/core/rag/index_processor/processor/paragraph_index_processor.py: 31 |
api/core/rag/index_processor/processor/qa_index_processor.py: 37 |
api/services/dataset_service.py: 1073 | api/services/vector_service.py: 18 |
api/tasks/batch_clean_document_task.py: 16 |
api/controllers/console/datasets/datasets_document.py: 785 | api/core/indexing_runner.py: 161 |
api/core/rag/extractor/word_extractor.py: 209 | api/core/rag/retrieval/dataset_retrieval.py: 50 |
api/core/workflow/nodes/knowledge_retrieval/knowledge_retrieval_node.py: 89 |
api/schedule/clean_unused_datasets_task.py: 18 | api/services/dataset_service.py: 1296 |
api/services/dataset_service.py: 1790 | api/services/dataset_service.py: 1902 |
api/tasks/enable_segments_to_index_task.py: 18 |
api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 271 |
api/core/model_runtime/model_providers/azure_openai/llm/llm.py: 382 |
api/core/entities/provider_configuration.py: 768 | api/services/tools/tools_transform_service.py:
236 | api/commands.py: 418 | api/commands.py: 605 |
api/controllers/console/app/model_config.py: 26 | api/controllers/console/app/wraps.py: 11 |
api/controllers/service_api/wraps.py: 37 | api/core/agent/base_agent_runner.py: 134 |
api/core/agent/base_agent_runner.py: 242 | api/core/agent/cot_agent_runner.py: 381 |
api/core/agent/cot_completion_agent_runner.py: 34 | api/core/agent/fc_agent_runner.py: 35 |
api/core/agent/output_parser/cot_output_parser.py: 12 |
api/core/app/app_config/easy_ui_based_app/dataset/manager.py: 12 |
api/core/app/apps/advanced_chat/app_generator_tts_publisher.py: 84 |
api/core/app/apps/advanced_chat/app_runner.py: 51 | api/core/app/apps/base_app_runner.py: 97 |
api/core/app/apps/base_app_runner.py: 134 | api/core/app/apps/workflow_app_runner.py: 174 |
api/core/app/task_pipeline/easy_ui_based_generate_task_pipeline.py: 247 |
api/core/entities/provider_configuration.py: 80 | api/core/entities/provider_configuration.py: 178 |
api/core/indexing_runner.py: 330 | api/core/model_manager.py: 325 |
api/core/model_runtime/model_providers/__base/ai_model.py: 247 |
api/core/model_runtime/model_providers/__base/large_language_model.py: 276 |
api/core/model_runtime/model_providers/__base/large_language_model.py: 331 |
api/core/model_runtime/model_providers/minimax/llm/chat_completion_pro.py: 140 |
api/core/model_runtime/model_providers/xinference/xinference_helper.py: 71 |
api/core/ops/langsmith_trace/langsmith_trace.py: 65 | api/core/provider_manager.py: 532 |
api/core/provider_manager.py: 669 | api/core/rag/datasource/vdb/lindorm/lindorm_vector.py: 417
| api/core/rag/embedding/cached_embedding.py: 27 | api/core/rag/extractor/excel_extractor.py: 27
| api/core/rag/extractor/word_extractor.py: 79 | api/core/rag/retrieval/dataset_retrieval.py: 230 |
api/core/rag/retrieval/dataset_retrieval.py: 336 | api/core/rag/retrieval/dataset_retrieval.py: 478 |

api/core/rag/retrieval/dataset_retrieval.py: 535

- **How to Fix:** Reducing cognitive complexity can be challenging. Here are a few suggestions: Extract complex conditions in a new function. Mixed operators in condition will increase complexity. Extracting the condition in a new function with an appropriate name will reduce cognitive load. Break down large functions. Large functions can be hard to understand and maintain. If a function is doing too many things, consider breaking it down into smaller, more manageable functions. Each function should have a single responsibility. Avoid deep nesting by returning early. To avoid the nesting of conditions, process exceptional cases first and return early. Extraction of a complex condition in a new function. Noncompliant code example The code is using a complex condition and has a cognitive cost of 5. def process_eligible_users(users):

  for user in users: # +1 (for)

  if ((user.is_active and   # +1 (if) +1 (nested) +1 (multiple conditions)

  user.has_profile) or   # +1 (mixed operator)

  user.age > 18):

  user.process()

  Compliant solution Even if the cognitive complexity of the whole program did not change, it is easier for a reader to understand the code of the process_eligible_users function, which now only has a cognitive cost of 3. def process_eligible_users(users):

  for user in users: # +1 (for)

  if is_eligible_user(user): # +1 (if) +1 (nested)

  user.process()

  def is_eligible_user(user):

  return ((user.is_active and user.has_profile) or user.age > 18) # +1 (multiple conditions) +1 (mixed operators)

  Break down large functions. Noncompliant code example Note: The code is simplified here, to illustrate the purpose. Please imagine there is more happening in the process. The bellow code has a cognitive complexity score of 8. def process_user(user):

  if user.is_active():   # +1 (if)

  if user.has_profile():   # +1 (if) +1 (nested)

  ... # process active user with profile

  else: # +1 (else)

  ... # process active user without profile

  else: # +1 (else)

  if user.has_profile():   # +1 (if) +1 (nested)

  ... # process inactive user with profile

  else: # +1 (else)

  ... # process inactive user without profile

  This function could be refactored into smaller functions: The complexity is spread over multiple functions and the breaks in flow are no more nested. The process_user has now a complexity score of two. Compliant solution def process_user(user):

  if user.is_active():   # +1 (if)

  process_active_user(user)

  else: # +1 (else)

  process_inactive_user(user)

```
def process_active_user(user):
if user.has_profile():        # +1 (if) +1 (nested)
... # process active user with profile
else:                # +1 (else)
... # process active user without profile
def process_inactive_user(user):
if user.has_profile():        # +1 (if) +1 (nested)
... # process inactive user with profile
else:                # +1 (else)
... # process inactive user without profile
```

Avoid deep nesting by returning early. Noncompliant code example The below code has a cognitive complexity of 6. def calculate(data):

```
if data is not None:  # +1 (if)
total = 0
for item in data: # +1 (for) +1 (nested)
if item > 0:  # +1 (if)  +2 (nested)
total += item * 2
return total
```

Compliant solution Checking for the edge case first flattens the if statements and reduces the cognitive complexity to 4. def calculate(data):

```
if data is None:     # +1 (if)
return None
total = 0
for item in data:    # +1 (for)
if item > 0:     # +1 (if) +1 (nested)
total += item * 2
return total
```

Pitfalls As this code is complex, ensure that you have unit tests that cover the code before refactoring.

- **Root Cause:** Cognitive Complexity is a measure of how hard it is to understand the control flow of a unit of code. Code with high cognitive complexity is hard to read, understand, test, and modify. As a rule of thumb, high cognitive complexity is a sign that the code should be refactored into smaller, easier-to-manage pieces. Which syntax in code does impact cognitive complexity score? Here are the core concepts: Cognitive complexity is incremented each time the code breaks the normal linear reading flow. This concerns, for example, loop structures, conditionals, catches, switches, jumps to labels, and conditions mixing multiple operators. Each nesting level increases complexity. During code reading, the deeper you go through nested layers, the harder it becomes to keep the context in mind. Method calls are free A well-picked method name is a summary of multiple lines of code. A reader can first explore a high-level view of what the code is performing then go deeper and deeper by looking at called functions content. Note: This does not apply to recursive calls, those will increment cognitive score. The method of computation is fully detailed in the pdf linked in the resources. What is the potential impact? Developers spend more time reading and understanding code than writing it. High cognitive complexity slows down changes and increases the cost of maintenance.

- Unexpected empty source

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 40

- **Locations:** web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |
web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1 |
web/app/components/app/configuration/base/icons/remove-icon/style.module.css: 1 |

- Unexpected empty source

web/app/components/base/auto-height-textarea/style.module.scss: 1 |
web/app/components/datasets/create/index.module.css: 1 |
web/app/components/header/account-setting/data-source-page/index.module.css: 1 |
web/app/components/header/nav/index.module.css: 1

- **Root Cause:** This rule raises an issue when a CSS file is empty (ie: containing only spaces).

- Visible, non-interactive elements with click handlers must have at least one keyboard listener.

- **Type:** BUG

- **Severity:** MINOR

- **Count:** 512

- **Locations:** web/app/components/workflow/nodes/_base/components/node-control.tsx: 47 |
web/app/components/workflow/nodes/_base/components/node-control.tsx: 53 |
web/app/components/base/prompt-editor/plugins/component-picker-block/prompt-option.tsx:
22 |
web/app/components/base/prompt-editor/plugins/component-picker-block/variable-option.tsx:
39 |
web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx:
121 |
web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx:
131 | web/app/components/workflow/note-node/note-editor/toolbar/command.tsx: 66 |
web/app/components/workflow/note-node/note-editor/toolbar/font-size-selector.tsx: 56 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 53 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 63 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 76 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 90 |
web/app/account/account-page/AvatarWithEdit.tsx: 88 |
web/app/components/datasets/hit-testing/components/result-item-external.tsx: 28 |
web/app/components/datasets/hit-testing/components/result-item-footer.tsx: 31 |
web/app/components/app/overview/settings/index.tsx: 352 |
web/app/components/base/chat/chat/answer/workflow-process.tsx: 85 |
web/app/components/datasets/create/step-two/option-card.tsx: 62 |
web/app/components/datasets/hit-testing/components/result-item.tsx: 43 |
web/app/components/workflow/header/version-history-item.tsx: 49 |
web/app/components/header/account-dropdown/index.tsx: 119 |
web/app/components/header/account-dropdown/index.tsx: 185 |
web/app/components/header/account-dropdown/index.tsx: 199 |
web/app/components/header/account-dropdown/workplace-selector/index.tsx: 83 |

web/app/(commonLayout)/datasets/DatasetCard.tsx: 113 |

web/app/components/base/checkbox/index.tsx: 16 |

web/app/components/base/radio-card/index.tsx: 39 |

web/app/components/base/tag-input/index.tsx: 83 |

web/app/components/datasets/common/document-picker/document-list.tsx: 28 |

web/app/components/datasets/common/document-status-with-action/status-with-action.tsx: 60
| web/app/components/datasets/create/file-uploader/index.tsx: 269 |

web/app/components/datasets/create/file-uploader/index.tsx: 283 |

web/app/components/datasets/create/file-uploader/index.tsx: 318 |

web/app/components/datasets/create/step-one/index.tsx: 278 |

web/app/components/datasets/create/step-two/index.tsx: 640 |

web/app/components/datasets/create/step-two/index.tsx: 652 |

web/app/components/datasets/create/step-two/index.tsx: 821 |

web/app/components/datasets/create/step-two/language-select/index.tsx: 29 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 102 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 105 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 99 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 141 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 144 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 148 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 191 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 204 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 216 |

web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 134 |

web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 137 |

web/app/components/datasets/documents/detail/index.tsx: 191 |

web/app/components/datasets/documents/detail/metadata/index.tsx: 353 |

web/app/components/datasets/documents/detail/new-segment.tsx: 166 |

web/app/components/datasets/documents/detail/new-segment.tsx: 169 |

web/app/components/datasets/documents/detail/segment-add/index.tsx: 63 |

web/app/components/datasets/documents/detail/segment-add/index.tsx: 75 |

web/app/components/datasets/documents/list.tsx: 508 |

web/app/components/datasets/documents/list.tsx: 527 |

web/app/components/datasets/documents/list.tsx: 547 |

web/app/components/datasets/documents/list.tsx: 575 |

web/app/components/datasets/hit-testing/components/result-item.tsx: 52 |

web/app/components/datasets/hit-testing/textarea.tsx: 127 |

web/app/components/workflow/operator/zoom-in-out.tsx: 146 |

web/app/components/workflow/operator/zoom-in-out.tsx: 159 |

web/app/components/workflow/operator/zoom-in-out.tsx: 164 |

web/app/components/workflow/nodes/_base/components/node-control.tsx: 47 |

web/app/components/workflow/nodes/_base/components/node-control.tsx: 53 |

web/app/components/base/prompt-editor/plugins/component-picker-block/prompt-option.tsx:
22 |

web/app/components/base/prompt-editor/plugins/component-picker-block/variable-option.tsx:

39 |

web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx: 121 |

web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx: 131 | web/app/components/workflow/note-node/note-editor/toolbar/command.tsx: 66 |

web/app/components/workflow/note-node/note-editor/toolbar/font-size-selector.tsx: 56 |

web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 53 |

web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 63 |

web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 76 |

web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 90 |

web/app/account/account-page/AvatarWithEdit.tsx: 88 |

web/app/components/datasets/hit-testing/components/result-item-external.tsx: 28 |

web/app/components/datasets/hit-testing/components/result-item-footer.tsx: 31 |

web/app/components/app/overview/settings/index.tsx: 352 |

web/app/components/base/chat/chat/answer/workflow-process.tsx: 85 |

web/app/components/datasets/create/step-two/option-card.tsx: 62 |

web/app/components/datasets/hit-testing/components/result-item.tsx: 43 |

web/app/components/workflow/header/version-history-item.tsx: 49 |

web/app/components/header/account-dropdown/index.tsx: 119 |

web/app/components/header/account-dropdown/index.tsx: 185 |

web/app/components/header/account-dropdown/index.tsx: 199 |

web/app/components/header/account-dropdown/workplace-selector/index.tsx: 83 |

web/app/(commonLayout)/datasets/DatasetCard.tsx: 113 |

web/app/components/base/checkbox/index.tsx: 16 |

web/app/components/base/radio-card/index.tsx: 39 |

web/app/components/base/tag-input/index.tsx: 83 |

web/app/components/datasets/common/document-picker/document-list.tsx: 28 |

web/app/components/datasets/common/document-status-with-action/status-with-action.tsx: 60 | web/app/components/datasets/create/file-uploader/index.tsx: 269 |

web/app/components/datasets/create/file-uploader/index.tsx: 283 |

web/app/components/datasets/create/file-uploader/index.tsx: 318 |

web/app/components/datasets/create/step-one/index.tsx: 278 |

web/app/components/datasets/create/step-two/index.tsx: 640 |

web/app/components/datasets/create/step-two/index.tsx: 652 |

web/app/components/datasets/create/step-two/index.tsx: 821 |

web/app/components/datasets/create/step-two/language-select/index.tsx: 29 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 102 |

web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 105 |

web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 99 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 141 |

web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 144 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 148 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 191 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 204 |

web/app/components/datasets/documents/detail/completed/segment-card.tsx: 216 |

web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 134 |
web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 137 |
web/app/components/datasets/documents/detail/index.tsx: 191 |
web/app/components/datasets/documents/detail/metadata/index.tsx: 353 |
web/app/components/datasets/documents/detail/new-segment.tsx: 166 |
web/app/components/datasets/documents/detail/new-segment.tsx: 169 |
web/app/components/datasets/documents/detail/segment-add/index.tsx: 63 |
web/app/components/datasets/documents/detail/segment-add/index.tsx: 75 |
web/app/components/datasets/documents/list.tsx: 508 |
web/app/components/datasets/documents/list.tsx: 527 |
web/app/components/datasets/documents/list.tsx: 547 |
web/app/components/datasets/documents/list.tsx: 575 |
web/app/components/datasets/hit-testing/components/result-item.tsx: 52 |
web/app/components/datasets/hit-testing/textarea.tsx: 127 |
web/app/components/workflow/operator/zoom-in-out.tsx: 146 |
web/app/components/workflow/operator/zoom-in-out.tsx: 159 |
web/app/components/workflow/operator/zoom-in-out.tsx: 164 |
web/app/components/workflow/nodes/_base/components/node-control.tsx: 47 |
web/app/components/workflow/nodes/_base/components/node-control.tsx: 53 |
web/app/components/base/prompt-editor/plugins/component-picker-block/prompt-option.tsx: 22 |
web/app/components/base/prompt-editor/plugins/component-picker-block/variable-option.tsx: 39 |
web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx: 121 |
web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx: 131 | web/app/components/workflow/note-node/note-editor/toolbar/command.tsx: 66 |
web/app/components/workflow/note-node/note-editor/toolbar/font-size-selector.tsx: 56 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 53 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 63 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 76 |
web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 90 |
web/app/account/account-page/AvatarWithEdit.tsx: 88 |
web/app/components/datasets/hit-testing/components/result-item-external.tsx: 28 |
web/app/components/datasets/hit-testing/components/result-item-footer.tsx: 31 |
web/app/components/app/overview/settings/index.tsx: 352 |
web/app/components/base/chat/chat/answer/workflow-process.tsx: 85 |
web/app/components/datasets/create/step-two/option-card.tsx: 62 |
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web/app/components/workflow/note-node/note-editor/plugins/link-editor-plugin/component.tsx: 131 | web/app/components/workflow/note-node/note-editor/toolbar/command.tsx: 66 | web/app/components/workflow/note-node/note-editor/toolbar/font-size-selector.tsx: 56 | web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 53 | web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 63 | web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 76 | web/app/components/workflow/note-node/note-editor/toolbar/operator.tsx: 90 | web/app/account/account-page/AvatarWithEdit.tsx: 88 | web/app/components/datasets/hit-testing/components/result-item-external.tsx: 28 | web/app/components/datasets/hit-testing/components/result-item-footer.tsx: 31 | web/app/components/app/overview/settings/index.tsx: 352 | web/app/components/base/chat/chat/answer/workflow-process.tsx: 85 | web/app/components/datasets/create/step-two/option-card.tsx: 62 | web/app/components/datasets/hit-testing/components/result-item.tsx: 43 | web/app/components/workflow/header/version-history-item.tsx: 49 | web/app/components/header/account-dropdown/index.tsx: 119 | web/app/components/header/account-dropdown/index.tsx: 185 | web/app/components/header/account-dropdown/index.tsx: 199 | web/app/components/header/account-dropdown/workplace-selector/index.tsx: 83 | web/app/(commonLayout)/datasets/DatasetCard.tsx: 113 | web/app/components/base/checkbox/index.tsx: 16 | web/app/components/base/radio-card/index.tsx: 39 | web/app/components/base/tag-input/index.tsx: 83 | web/app/components/datasets/common/document-picker/document-list.tsx: 28 | web/app/components/datasets/common/document-status-with-action/status-with-action.tsx: 60 | web/app/components/datasets/create/file-uploader/index.tsx: 269 | web/app/components/datasets/create/file-uploader/index.tsx: 283 | web/app/components/datasets/create/file-uploader/index.tsx: 318 | web/app/components/datasets/create/step-one/index.tsx: 278 | web/app/components/datasets/create/step-two/index.tsx: 640 | web/app/components/datasets/create/step-two/index.tsx: 652 | web/app/components/datasets/create/step-two/index.tsx: 821 | web/app/components/datasets/create/step-two/language-select/index.tsx: 29 | web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 102 | web/app/components/datasets/documents/detail/completed/child-segment-detail.tsx: 105 | web/app/components/datasets/documents/detail/completed/child-segment-list.tsx: 99 | web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 141 | web/app/components/datasets/documents/detail/completed/new-child-segment.tsx: 144 | web/app/components/datasets/documents/detail/completed/segment-card.tsx: 148 | web/app/components/datasets/documents/detail/completed/segment-card.tsx: 191 | web/app/components/datasets/documents/detail/completed/segment-card.tsx: 204 | web/app/components/datasets/documents/detail/completed/segment-card.tsx: 216 | web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 134 | web/app/components/datasets/documents/detail/completed/segment-detail.tsx: 137 | web/app/components/datasets/documents/detail/index.tsx: 191 |

web/app/components/datasets/documents/detail/metadata/index.tsx: 353 |
web/app/components/datasets/documents/detail/new-segment.tsx: 166 |
web/app/components/datasets/documents/detail/new-segment.tsx: 169 |
web/app/components/datasets/documents/detail/segment-add/index.tsx: 63 |
web/app/components/datasets/documents/detail/segment-add/index.tsx: 75 |
web/app/components/datasets/documents/list.tsx: 508 |
web/app/components/datasets/documents/list.tsx: 527 |
web/app/components/datasets/documents/list.tsx: 547 |
web/app/components/datasets/documents/list.tsx: 575 |
web/app/components/datasets/hit-testing/components/result-item.tsx: 52 |
web/app/components/datasets/hit-testing/textarea.tsx: 127 |
web/app/components/workflow/operator/zoom-in-out.tsx: 146 |
web/app/components/workflow/operator/zoom-in-out.tsx: 159 |
web/app/components/workflow/operator/zoom-in-out.tsx: 164

- **How to Fix:** Add at least one of the following event handlers onKeyUp, onKeyDown, onKeyPress to the element when using onClick event handler. Add corresponding event handlers onfocus/onblur to the element when using onmouseover/onmouseout event handlers. Noncompliant code example <div onClick={() => {}} />
  <div onMouseOver={ () => {}} } />
  Compliant solution <div onClick={() => {}} onKeyDown={this.handleKeyDown} />
  <div onMouseOver={ () => {} } onFocus={ () => {} } />
  Exceptions This does not apply for interactive or hidden elements, eg. when using aria-hidden="true" attribute.

- **Root Cause:** Offering the same experience with the mouse and the keyboard allow users to pick their preferred devices. Additionally, users of assistive technology will also be able to browse the site even if they cannot use the mouse. This rules detects the following issues: when onClick is not accompanied by at least one of the following: onKeyUp, onKeyDown, onKeyPress. when onmouseover/onmouseout are not paired by onfocus/onblur.

- Remove this commented out code.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 16

- **Locations:** web/app/components/datasets/documents/list.tsx: 559 |
  web/app/components/datasets/hit-testing/index.tsx: 181 |
  web/app/components/datasets/documents/list.tsx: 559 |
  web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181 |

web/app/components/datasets/documents/list.tsx: 559 |

web/app/components/datasets/hit-testing/index.tsx: 181

- **Root Cause:** Commented-out code distracts the focus from the actual executed code. It creates a noise that increases maintenance code. And because it is never executed, it quickly becomes out of date and invalid. Commented-out code should be deleted and can be retrieved from source control history if required.

- Define a constant instead of duplicating this literal "No Embedding Model available. Please configure a valid provider in the Settings -> Model Provider." 4 times.

- **Type:** CODE_SMELL

- **Severity:** CRITICAL

- **Count:** 168

- **Locations:** api/controllers/console/datasets/datasets_segments.py: 171 | api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 | api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 | api/controllers/console/datasets/datasets.py: 172 | api/controllers/console/datasets/datasets_document.py: 64 | api/controllers/console/datasets/datasets_document.py: 300 | api/controllers/console/datasets/datasets_segments.py: 48 | api/controllers/console/datasets/datasets_segments.py: 58 | api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 | api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 | api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py: 49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 | api/core/rag/extractor/notion_extractor.py: 81 | api/controllers/console/datasets/datasets_segments.py: 171 | api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 |

api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 |
api/controllers/console/datasets/datasets.py: 172 |
api/controllers/console/datasets/datasets_document.py: 64 |
api/controllers/console/datasets/datasets_document.py: 300 |
api/controllers/console/datasets/datasets_segments.py: 48 |
api/controllers/console/datasets/datasets_segments.py: 58 |
api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 |
api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 |
api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py:
49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 |
api/core/rag/extractor/notion_extractor.py: 81 |
api/controllers/console/datasets/datasets_segments.py: 171 |
api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 |
api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 |
api/controllers/console/datasets/datasets.py: 172 |
api/controllers/console/datasets/datasets_document.py: 64 |
api/controllers/console/datasets/datasets_document.py: 300 |
api/controllers/console/datasets/datasets_segments.py: 48 |
api/controllers/console/datasets/datasets_segments.py: 58 |
api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 |
api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 |
api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py:
49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 |
api/core/rag/extractor/notion_extractor.py: 81 |
api/controllers/console/datasets/datasets_segments.py: 171 |
api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 |
api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 |
api/controllers/console/datasets/datasets.py: 172 |
api/controllers/console/datasets/datasets_document.py: 64 |
api/controllers/console/datasets/datasets_document.py: 300 |
api/controllers/console/datasets/datasets_segments.py: 48 |
api/controllers/console/datasets/datasets_segments.py: 58 |
api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 |
api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 |
api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py:
49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 |
api/core/rag/extractor/notion_extractor.py: 81 |
api/controllers/console/datasets/datasets_segments.py: 171 |
api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 |
api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 |
api/controllers/console/datasets/datasets.py: 172 |
api/controllers/console/datasets/datasets_document.py: 64 |
api/controllers/console/datasets/datasets_document.py: 300 |
api/controllers/console/datasets/datasets_segments.py: 48 |
api/controllers/console/datasets/datasets_segments.py: 58 |

api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 | api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 | api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py: 49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 | api/core/rag/extractor/notion_extractor.py: 81 | api/controllers/console/datasets/datasets_segments.py: 171 | api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 | api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 | api/controllers/console/datasets/datasets.py: 172 | api/controllers/console/datasets/datasets_document.py: 64 | api/controllers/console/datasets/datasets_document.py: 300 | api/controllers/console/datasets/datasets_segments.py: 48 | api/controllers/console/datasets/datasets_segments.py: 58 | api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 | api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 | api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py: 49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 | api/core/rag/extractor/notion_extractor.py: 81 | api/controllers/console/datasets/datasets_segments.py: 171 | api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 | api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 | api/controllers/console/datasets/datasets.py: 172 | api/controllers/console/datasets/datasets_document.py: 64 | api/controllers/console/datasets/datasets_document.py: 300 | api/controllers/console/datasets/datasets_segments.py: 48 | api/controllers/console/datasets/datasets_segments.py: 58 | api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 | api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 | api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py: 49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 | api/core/rag/extractor/notion_extractor.py: 81 | api/controllers/console/datasets/datasets_segments.py: 171 | api/controllers/service_api/dataset/segment.py: 56 | api/core/ops/entities/config_entity.py: 34 | api/core/app/apps/workflow/generate_task_pipeline.py: 269 | api/models/workflow.py: 101 | api/controllers/console/datasets/datasets.py: 172 | api/controllers/console/datasets/datasets_document.py: 64 | api/controllers/console/datasets/datasets_document.py: 300 | api/controllers/console/datasets/datasets_segments.py: 48 | api/controllers/console/datasets/datasets_segments.py: 58 | api/controllers/console/datasets/datasets_segments.py: 278 | api/models/dataset.py: 46 | api/models/dataset.py: 653 | api/services/dataset_service.py: 1582 | api/models/account.py: 24 | api/models/model.py: 70 | api/controllers/console/apikey.py: 48 | api/core/moderation/api/api.py: 49 | api/core/ops/ops_trace_manager.py: 170 | api/core/rag/datasource/retrieval_service.py: 143 | api/core/rag/extractor/notion_extractor.py: 81

- **Root Cause:** Duplicated string literals make the process of refactoring complex and error-prone, as any change would need to be propagated on all occurrences. Exceptions No issue will be raised on: duplicated string in decorators strings with less than 5 characters strings with only letters, numbers and underscores

- **How to Fix:** Use constants to replace the duplicated string literals. Constants can be referenced from many places, but only need to be updated in a single place. Noncompliant code example With the default threshold of 3: def run():

  prepare("action1") # Noncompliant - "action1" is duplicated 3 times

  execute("action1")

  release("action1")

  @app.route("/api/users/", methods=['GET', 'POST', 'PUT'])

  def users():

  pass

  @app.route("/api/projects/", methods=['GET', 'POST', 'PUT']) # Compliant - strings inside decorators are ignored

  def projects():

  pass

  Compliant solution ACTION_1 = "action1"

  def run():

  prepare(ACTION_1)

  execute(ACTION_1)

  release(ACTION_1)

- A form label must be associated with a control.

- **Type:** CODE_SMELL

- **Severity:** MINOR

- **Count:** 16

- **Locations:** web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50 | web/app/components/datasets/chunk.tsx: 46 | web/app/components/datasets/chunk.tsx: 50

- **How to Fix:** If you have a pair of control and <label> elements, make sure that the <label> wraps the control element. If you lack a control element, add one. It is strongly recommended to avoid using

generated ids since they must be deterministic. Noncompliant code example <input type="text" />

<label>Favorite food</label>

Compliant solution <label>

<input type="text" />

Favorite food

</label>

Noncompliant code example <label>Favorite food</label>

Compliant solution <label>

<MyCustomInput />

Favorite food

</label>

- **Root Cause:** When a label element lacks a text label or an associated control, it can lead to several issues: Poor Accessibility: Screen readers rely on correctly associated labels to describe the function of the form control. If the label is not properly associated with a control, it can make the form difficult or impossible for visually impaired users to understand or interact with. Confusing User Interface: Labels provide users with clear instructions about what information is required in a form control. Without a properly associated label, users might not understand what input is expected, leading to confusion and potential misuse of the form. Code Maintainability: Properly structured and labeled code is easier to read, understand, and maintain. When labels are not correctly associated, it can make the code more difficult to navigate and debug, especially for new developers or those unfamiliar with the codebase. Control elements are: * <input> * <meter> * <output> * <progress> * <select> * <textarea> Exceptions Custom components may contain control elements, therefore label elements containing custom elements do not raise issues.

- Ambiguous spacing after previous element span

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177 |
  web/app/components/datasets/hit-testing/textarea.tsx: 177

- **Root Cause:** React JSX differs from the HTML standard in the way it handles newline characters and

surrounding whitespace. HTML collapses multiple whitespace characters (including newlines) into a single whitespace, but JSX removes such sequences completely, leaving no space between inline elements separated by the line break. This difference in behavior can be confusing and may result in unintended layout, for example, missing whitespace between the link content and the surrounding text. To avoid such issues, you should never rely on newline characters in JSX, and explicitly specify whether you want whitespace between inline elements separated by a line break.
<div>{/* Noncompliant: ambiguous spacing */}

Here is some

<a>space

</div>

<div>{/* Noncompliant: ambiguous spacing */}

<a>No space

between these

</div>

To fix the issue, either insert an explicit JSX space as a string expression {' '}, or insert an empty comment expression {/* */} to indicate that the two parts will be joined together with no space between them. <div>

Here is some{' '}

<a>space

</div>

<div>

<a>No space{/*

*/}between these

</div>

- Remove this commented out code.

- **Type:** CODE_SMELL

- **Severity:** MAJOR

- **Count:** 8

- **Locations:** api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173 |
  api/core/model_runtime/model_providers/deepseek/llm/llm.py: 173

- **Root Cause:** Commented-out code distracts the focus from the actual executed code. It creates a noise that

increases maintenance code. And because it is never executed, it quickly becomes out of date and invalid. Commented-out code should be deleted and can be retrieved from source control history if required.