sonarqube

Executive Report

Project Name
10_Voting_machine

Branch
 main

Analysis Date
2023-01-02

Size Rating
S

Lines of Code
1,129

Version
not provided

Quality Gate
PASSED

Reliability

C

Bugs
1

Reliability on New Code
–

New Bugs

Security

A

Vulnerabilities
0

Security Hotspots
18

Security on New Code
–

New Vulnerabilities

New Security Hotspots

Maintainability

A

Code Smells
11

Debt Ratio
0.2%

Maintainability on New Code
–

New Code Smells

Debt Ratio on New Code
0

Issues By Severity

⚠	0	0	0
⌃	0	0	6
⌃	1	0	0
⌄	0	0	5
ⓘ	0	0	0

- ⚠ Blocker
- ⌃ Critical
- ⌃ Major
- ⌄ Minor
- ⓘ Info

- ⚙ Bug
- 🔓 Vulnerability
- ⚙ Code Smell

Coverage

0%

Unit Tests
0

Coverage on New Code
0

Duplications
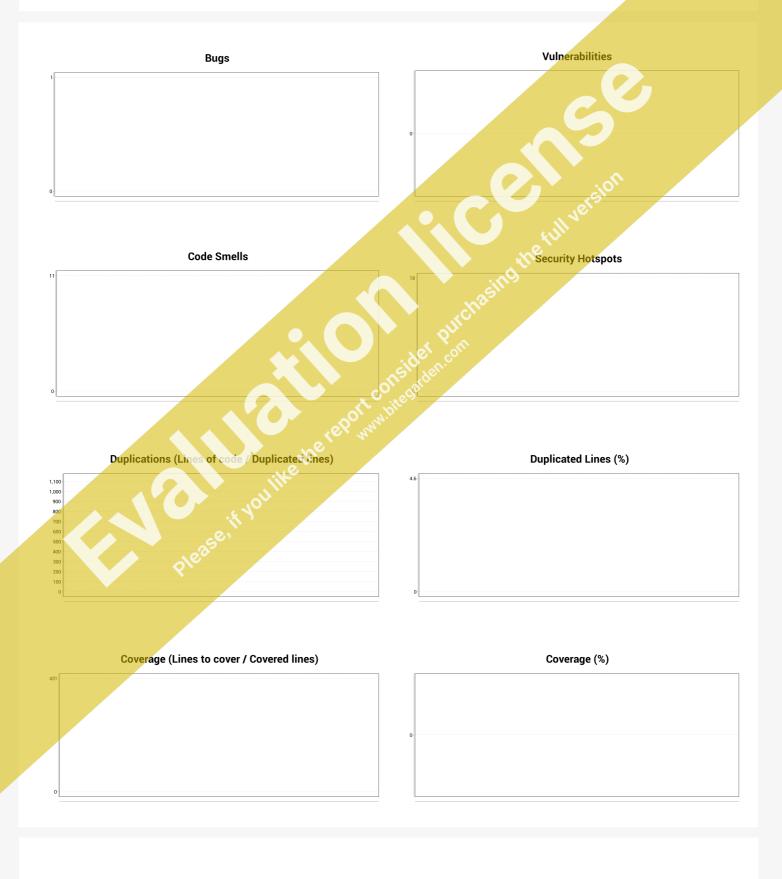
4.6%

Duplicated Blocks
4

Duplications on New Code
0

bitegarden

Project Name
10_Voting_machine

Branch main
Version not provided

Analysis Date
2023-01-02

Bugs

Vulnerabilities

Code Smells

Security Hotspots

Duplications (Lines of code / Duplicated lines)

Duplicated Lines (%)

Coverage (Lines to cover / Covered lines)

Coverage (%)

Project Name
10_Voting_machine

Branch main
Version not provided

Analysis Date
2023-01-02

Top Common Issues

Severity	Rule	Type	# Issues
⬇	Unused local variables should be removed (py)		5
⬆	String literals should not be duplicated (py)		5
⬆	All code should be reachable (py)		1
⬆	Cognitive Complexity of functions should not be too high (py)		1

Severity Levels
- ❗ Blocker
- ⬆ Critical
- ⬆ Major
- ⬇ Minor
- ℹ Info

🔗 Multipe severities found

Issue Types
- 🐛 Bug
- 🔓 Vulnerability
- 🛡 Security Hotspot
- ⚙ Code Smell

sonarqube

Project Name
10_Voting_machine

Branch main
Version not provided
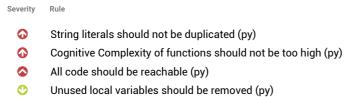
Analysis Date
2023-01-02

Top Issues By Severity

Severity	Rule	Type	# Issues
⬆	String literals should not be duplicated (py)	⊕	5
⬆	Cognitive Complexity of functions should not be too high (py)	✳	1
⬆	All code should be reachable (py)	🐛	1
⬇	Unused local variables should be removed (py)	✳	5

Severity Levels
- ❗ Blocker
- ⬆ Critical
- ⬆ Major
- ⬇ Minor
- ℹ Info

🔗 Multipe severities found

Issue Types
- 🐛 Bug
- 🔓 Vulnerability
- 🛡 Security Hotspot
- ✳ Code Smell

Project Name
10_Voting_machine

Branch main
Version not provided

Analysis Date
2023-01-02

Top Security HotSpots to Review

Severity	Rule	Type	# Issues
⬇	Allowing both safe and unsafe HTTP methods is security-sensitive (py)	🛡	15
⬆	Using pseudorandom number generators (PRNGs) is security-sensitive (py)	🛡	2
⬇	Delivering code in production with debug features activated is security-sensitive (py)	🛡	1

Severity Levels
❗ Blocker
🔺 Critical
🔺 Major
⬇ Minor
ℹ Info

🔗 Multipe severities found

Issue Types
🐛 Bug
🔓 Vulnerability
🛡 Security Hotspot
Code Smell

Project Name		Branch	main		Analysis Date
10_Voting_machine		Version	not provided		2023-01-02

Rule
String literals should not be duplicated

Language
py

Issues
5

Duplicated string literals make the process of refactoring error-prone, since you must be sure to update all occurrences.

🏷 **design**

Issues Breakdown

📄 accounts/views.py　　　　　　　　　　　　　　　　　　　　　　　　　　　　**L21**
Define a constant instead of duplicating this literal 'alert alert-warning alert-dismissible fade show' 5 t...

📄 polls/views.py　　　　　　　　　　　　　　　　　　　　　　　　　　　　**L72**
Define a constant instead of duplicating this literal 'alert alert-success alert-dismissible fade show' 6 t...

📄 polls/views.py　　　　　　　　　　　　　　　　　　　　　　　　　　　　**L97**
Define a constant instead of duplicating this literal "polls:list" 3 times.

📄 polls/views.py　　　　　　　　　　　　　　　　　　　　　　　　　　　　**L130**
Define a constant instead of duplicating this literal 'polls:edit' 3 times.

📄 polls/views.py　　　　　　　　　　　　　　　　　　　　　　　　　　　　**L181**
Define a constant instead of duplicating this literal 'polls/poll_result.html' 5 times.

sonarqube

Rule

Cognitive Complexity of functions should not be too high

Language
py

Issues
1

Cognitive Complexity is a measure of how hard the control flow of a function is to understand.

🏷 **brain-overload**

Issues Breakdown

📄 accounts/views.py
Refactor this function to reduce its Cognitive Complexity from 18 to the 15 allowed.

L31

sonarqube

Rule	Language	Issues
Using pseudorandom number generators (PRNGs) is security-sensitive	py	2

Using pseudorandom number generators (PRNGs) is security-sensitive.

🏷 **cwe   owasp-a3   owasp-m5**

Issues Breakdown

📄 seeder.py   **L51**
Make sure that using this pseudorandom number generator is safe here.

📄 seeder.py   **L90**
Make sure that using this pseudorandom number generator is safe here.

sonarqube

Project Name
10_Voting_machine

Branch main
Version not provided

Analysis Date
2023-01-02

Rule
All code should be reachable

Language
py

Issues
1

Jump statements (return, break, continue, and raise) move control flow out of the current code block.

🏷 cwe   unused

Issues Breakdown

polls/views.py   **L209**
Delete this unreachable code or refactor the code to make it reachable.

Branch main
Version not provided

sonarqube

Rule

Language py

Issues 5

Unused local variables should be removed

If a local variable is declared but not used, it is dead code and should be removed.

🏷️ unused

Issues Breakdown

polls/views.py **L66**
Remove the unused local variable "new_choice1".

polls/views.py **L68**
Remove the unused local variable "new_choice2".

seeder.py **L21**
Remove the unused local variable "u".

seeder.py **L58**
Remove the unused local variable "c".

seeder.py **L87**
Remove the unused local variable "v".

sonarqube

Project Name
10_Voting_machine

Branch: main
Version: not provided

Analysis Date
2023-01-02

Rule

Allowing both safe and unsafe HTTP methods is security-sensitive

Language
py

Issues
15

An HTTP method is safe when used to perform a read-only operation, such as retrieving information.

cwe   owasp-a5   sans-top25-insecure

Issues Breakdown

accounts/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L9

accounts/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L26

accounts/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L31

pollme/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L4

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L12

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L44

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L58

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L86

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L106

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L117

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L140

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L166

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L177

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L191

polls/views.py
Make sure allowing safe and unsafe HTTP methods is safe here.
L213

sonarqube

Project Name
10_Voting_machine

Branch main
Version not provided

Analysis Date
2023-01-02

Rule
Delivering code in production with debug features activated is security-sensitive

Language
py

Issues
1

Delivering code in production with debug features activated is security-sensitive.

🏷️ **cwe   debug   error-handling   owasp-a3   user-experience**

Issues Breakdown

📄 pollme/settings.py
Make sure this debug feature is deactivated before delivering the code in production.

L26