SonarQube cloud

Executive Report

Project Name
TeraLinkaECGReport Backend API

Branch
master

Analysis Date
2026-02-25

Size Rating
M

Lines of Code
17,071

Version
not provided

Quality Gate
FAILED

Reliability
C

Bugs
2

Reliability on new code
–

New Bugs

Security
A

Vulnerabilities
0

Security Hotspots
1

Security on new code
–

New Vulnerabilities

New Security Hotspots

Maintainability
A

Code Smells
372

Debt Ratio
0.4%

Maintainability on new code
–

New Code Smells

Debt Ratio on New Code
0

Issues By Severity

	🐞	🔓	⚙
❗	0	0	0
⬆	0	0	53
⌃	2	0	73
⬇	0	0	109
ℹ	0	0	137

- 🔴 Blocker
- 🔺 Critical
- 🔻 Major
- 🟢 Minor
- ℹ Info
- 🐞 Bug
- 🔓 Vulnerability
- ⚙ Code Smell

Coverage
13.7%

Unit Tests
0

Coverage on New Code
0

Duplications
12.5%

Duplicated blocks
121

Duplications on New Code
0

Project Name
TeraLinkaECGReport Backend API

Branch master
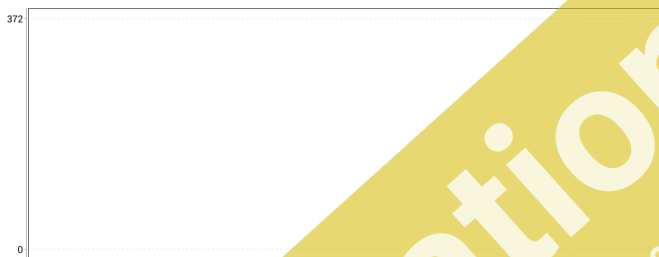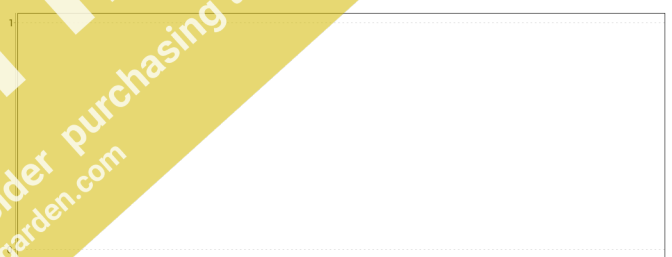**Version** not provided

Bugs

Vulnerabilities
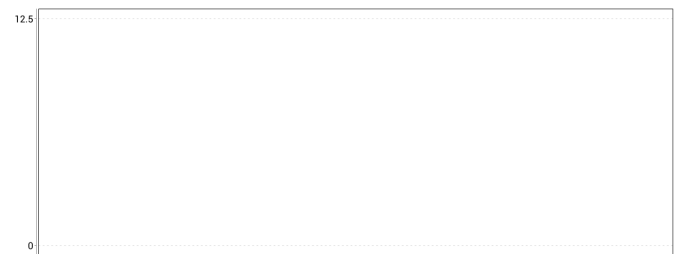

Code Smells
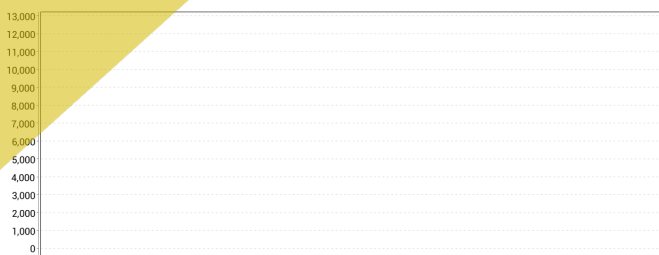

Security Hotspots

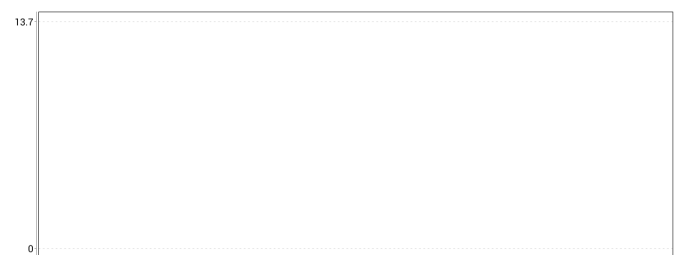### Duplications (Lines of code / Duplicated lines)

Duplicated Lines (%)

Coverage (Lines to cover / Covered lines)

Coverage (%)

Project Name
TeraLinkaECGReport Backend API

Branch ⌥ master
Version not provided

Analysis Date
2026-02-25

Top Common Issues

Severity	Rule	Type	# Issues
ℹ️	external_roslyn:CA1860 (-)		74
ℹ️	external_roslyn:CA1822 (-)		46
🔽	Methods and properties that don't access instance data should be static (cs)	⚛️	41
🔽	String literals should not be duplicated (cs)	⚛️	41
🔺	String literals should not be duplicated (plsql)	⚛️	30
🔺	Cognitive Complexity of methods should not be too high (cs)	⚛️	23
🔺	Columns to be read with a "SELECT" statement should be clearly defined (plsql)	⚛️	16
🔺	external_roslyn:CS8602 (-)		13
🔺	Awaitable method should be used (cs)	⚛️	7
🔺	Methods should not have too many parameters (cs)	⚛️	7
🔽	Loops should be simplified with "LINQ" expressions (cs)	⚛️	7
ℹ️	external_roslyn:CA1854 (-)		6
🔽	Types should be named in PascalCase (cs)	⚛️	5
🔺	Value type property used as input in a controller action should be nullable, required or annota... (cs)	⚛️	5
🔺	external_roslyn:CS8601 (-)		5
🔽	Unused local variables should be removed (cs)	⚛️	5
ℹ️	external_roslyn:CA1859 (-)		4
🔽	The code block contains too many logging calls (cs)	⚛️	4
🔺	external_roslyn:CS8619 (-)		4
🔺	Unused private types or members should be removed (cs)	⚛️	4
🔺	Mergeable "if" statements should be combined (cs)	⚛️	3
ℹ️	external_roslyn:CA1869 (-)		3
🔺	Sections of code should not be commented out (plsql)	⚛️	2
🔽	Controllers should not have mixed responsibilities (cs)	⚛️	2
🔺	Conditionally executed code should be reachable (cs)	🐞	2
🔽	Implementations should be provided for "partial" methods (cs)	⚛️	2
🔽	Method overloads should be grouped together (cs)	⚛️	2
ℹ️	external_roslyn:CA1868 (-)		2
🔺	Utility classes should not have public constructors (cs)	⚛️	1
🔽	Non-derived "private" classes and records should be "sealed" (cs)	⚛️	1
ℹ️	external_roslyn:CA1861 (-)		1
🔺	external_roslyn:CS8604 (-)		1
🔺	external_roslyn:ASP0000 (-)		1
🔺	external_roslyn:CS8618 (-)		1
ℹ️	external_roslyn:CA1850 (-)		1
🔺	Unused method parameters should be removed (cs)	⚛️	1

... ...

Severity Levels
- 🛑 Blocker   🏷️ Multiple severities found
- 🔺 Critical
- 🔺 Major
- 🔽 Minor
- ℹ️ Info

Issue Types
- 🐞 Bug
- 🔓 Vulnerability
- ⚠️ Security Hotspots
- ⚛️ Code Smell

Project Name	**Branch** ⌥ master	**Analysis Date**
TeraLinkaECGReport Backend API	**Version** not provided	2026-02-25

Top Issues By Severity

Severity	Rule	Type	# Issues
🔺	String literals should not be duplicated (plsql)		30
🔺	Cognitive Complexity of methods should not be too high (cs)		23
🔺	Columns to be read with a "SELECT" statement should be clearly defined (plsql)		16
🔺	external_roslyn:CS8602 (-)		13
🔺	Awaitable method should be used (cs)		7
🔺	Methods should not have too many parameters (cs)		7
🔺	Value type property used as input in a controller action should be nullable, required or annota… (cs)		5
🔺	external_roslyn:CS8601 (-)		5
🔺	external_roslyn:CS8619 (-)		4
🔺	Unused private types or members should be removed (cs)	⊛	4
🔺	Mergeable "if" statements should be combined (cs)	⊛	3
🔺	Sections of code should not be commented out (plsql)	⊛	2
🔺	Controllers should not have mixed responsibilities (cs)	⊛	2
🔺	Conditionally executed code should be reachable (cs)	🐞	2
🔺	Utility classes should not have public constructors (cs)	⊛	1
🔺	external_roslyn:CS8618 (-)		1
🔺	Unused method parameters should be removed (cs)	⊛	1
🔺	external_roslyn:CS8604 (-)		1
🔺	external_roslyn:ASP0000 (-)		1
🔻	String literals should not be duplicated (cs)	⊛	41
🔻	Methods and properties that don't access instance data should be static (cs)	⊛	41
🔻	Loops should be simplified with "LINQ" expressions (cs)	⊛	7
🔻	Types should be named in PascalCase (cs)	⊛	5
🔻	Unused local variables should be removed (cs)	⊛	5
🔻	The code block contains too many logging calls (cs)	⊛	4
🔻	Method overloads should be grouped together (cs)	⊛	2
🔻	Implementations should be provided for "partial" methods (cs)	⊛	2
🔻	Non-derived "private" classes and records should be "sealed" (cs)	⊛	1
🔻	Redundant casts should not be used (cs)	⊛	1
ℹ	external_roslyn:CA1860 (-)		74
ℹ	external_roslyn:CA1822 (-)		46
ℹ	external_roslyn:CA1854 (-)		6
ℹ	external_roslyn:CA1859 (-)		4
ℹ	external_roslyn:CA1869 (-)		3
ℹ	external_roslyn:CA1868 (-)		2
ℹ	external_roslyn:CA1850 (-)		1
	... ...		

Severity Levels
- 🛇 Blocker
- 🔻 Critical
- 🔺 Major
- 🔻 Minor
- ℹ Info

✎ Multiple severities found

Issue Types
- 🐞 Bug
- 🔒 Vulnerability
- ⚠ Security Hotspots
- ⊛ Code Smell

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Project Name
TeraLinkaECGReport Backend API

Branch | master
Version | not provided

Analysis Date
2026-02-25

5

Top Security Hotspots to Review

Severity	Rule	Type	# Issues
⬆	Formatting SQL queries is security-sensitive (cs)	🛡	1

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Severity Levels
- 🛑 Blocker
- ⬆ Critical
- ⬆ Major
- ⬇ Minor
- ℹ Info
- 🔗 Multiple severities found

Issue Types
- 🐞 Bug
- 🔓 Vulnerability
- 🛡 Security Hotspots
- ⚛ Code Smell

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Project Name
TeraLinkaECGReport Backend API

Branch ⌥ master
Version not provided

Analysis Date
2026-02-25

Top Security Hotspots Reviewed

0	**0**	**0**	**0** of 1	**0%**
acknowledged	fixed	safe	reviewed	reviewed
⊙	✓	⌄		

Top reviewed hotspots

Severity	Rule	Status	# reviewed

No Security Reviewed Hotspots found

Severity Levels
- 🛑 Blocker   🔗 Multiple severities found
- ⊘ Critical
- 🔺 Major
- 🔻 Minor
- ℹ️ Info

Hotspot Status
- ⊙ Acknowledged
- ⌄ Safe
- ✓ Fixed

Code Smell
S1192

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
String literals should not be duplicated

Language
plsql

Issues
30

Why is this an issue? Duplicated string literals make the process of refactoring complex and error-prone, as any change would need to be propagated on all occurrences.

🏷 **design**

Issues Breakdown

Database/CreatePerformanceIndexes.sql
Define a constant instead of duplicating this literal 3 times.
L20

Database/CreatePerformanceIndexes.sql
Define a constant instead of duplicating this literal 3 times.
L65

Database/CreatePerformanceIndexes.sql
Define a constant instead of duplicating this literal 3 times.
L204

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 6 times.
L253

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 6 times.
L18

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 4 times.
L253

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 3 times.
L257

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 4 times.
L269

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 4 times.
L274

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 3 times.
L278

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 3 times.
L283

Database/Auth_Schema_Final.sql
Define a constant instead of duplicating this literal 3 times.
L287

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 8 times.
L167

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 5 times.
L326

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 12 times.
L326

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 21 times.
L327

Project Name	Branch	master	Analysis Date
TeraLinkaECGReport Backend API	Version	not provided	2026-02-25

Issues Breakdown

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 3 times.
L327

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 6 times.
L328

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 8 times.
L328

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 10 times.
L329

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 6 times.
L336

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 3 times.
L337

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 4 times.
L339

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 8 times.
L341

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 5 times.
L347

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 7 times.
L357

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 4 times.
L369

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 5 times.
L378

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 3 times.
L388

Database/Query_Template_Schema.sql
Define a constant instead of duplicating this literal 3 times.
L471

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Project Name
TeraLinkaECGReport Backend API

Branch ⌥ master
Version not provided

Analysis Date
2026-02-25

Rule
Cognitive Complexity of methods should not be too high

Language
cs

Issues
23

This rule raises an issue when the code cognitive complexity of a function is above a certain threshold.

🏷 **brain-overload**

Issues Breakdown

Jobs/DirectXmlExportBackgroundJob.cs **L50**
Refactor this method to reduce its Cognitive Complexity from 16 to the 15 allowed.

Jobs/EcgXmlExcelExportBackgroundJob.cs **L62**
Refactor this method to reduce its Cognitive Complexity from 16 to the 15 allowed.

Jobs/EcgXmlExportBackgroundJob.cs **L69**
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed.

Jobs/ExcelExportBackgroundJob.cs **L61**
Refactor this method to reduce its Cognitive Complexity from 16 to the 15 allowed.

Jobs/ExportBackgroundJob.cs **L64**
Refactor this method to reduce its Cognitive Complexity from 23 to the 15 allowed.

Services/QueryTemplateService.cs **L96**
Refactor this method to reduce its Cognitive Complexity from 16 to the 15 allowed.

Services/QueryTemplateService.cs **L189**
Refactor this method to reduce its Cognitive Complexity from 19 to the 15 allowed.

Services/QueryTemplateService.cs **L321**
Refactor this method to reduce its Cognitive Complexity from 39 to the 15 allowed.

Services/QueryService.cs **L64**
Refactor this method to reduce its Cognitive Complexity from 25 to the 15 allowed.

Services/QueryService.cs **L216**
Refactor this method to reduce its Cognitive Complexity from 27 to the 15 allowed.

Jobs/ExternalExportBackgroundJob.cs **L145**
Refactor this method to reduce its Cognitive Complexity from 25 to the 15 allowed.

Jobs/ExportBackgroundJob.cs **L373**
Refactor this method to reduce its Cognitive Complexity from 76 to the 15 allowed.

Services/CsvParseService.cs **L30**
Refactor this method to reduce its Cognitive Complexity from 21 to the 15 allowed.

Services/ECGCsvExportService.cs **L84**
Refactor this method to reduce its Cognitive Complexity from 18 to the 15 allowed.

Jobs/DirectXmlExportBackgroundJob.cs **L200**
Refactor this method to reduce its Cognitive Complexity from 26 to the 15 allowed.

Jobs/EcgXmlExcelExportBackgroundJob.cs **L242**
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed.

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Issues Breakdown

Services/XmlFileService.cs **L90**
Refactor this method to reduce its Cognitive Complexity from 30 to the 15 allowed.

Jobs/EcgXmlExportBackgroundJob.cs **L242**
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed.

Services/DynamicSqlBuilder.cs **L483**
Refactor this method to reduce its Cognitive Complexity from 17 to the 15 allowed.

Services/QuerySafetyValidator.cs **L123**
Refactor this method to reduce its Cognitive Complexity from 34 to the 15 allowed.

Services/QueryTemplateService.cs **L513**
Refactor this method to reduce its Cognitive Complexity from 20 to the 15 allowed.

Services/QueryPlanAnalyzer.cs **L166**
Refactor this method to reduce its Cognitive Complexity from 16 to the 15 allowed.

Services/QueryPlanAnalyzer.cs **L392**
Refactor this method to reduce its Cognitive Complexity from 19 to the 15 allowed.

Project Name	Branch	master	Analysis Date
TeraLinkaECGReport Backend API	Version	not provided	2026-02-25

Rule

Columns to be read with a "SELECT" statement should be clearly defined plsql

Language **Issues**
16

Why is this an issue? SELECT * should be avoided because it releases control of the returned columns and could therefore lead to errors and potentially to performance issues.

🏷 performance   sql

Issues Breakdown

📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L262**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L254**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L258**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L266**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L270**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L275**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L279**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L284**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L288**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L293**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L297**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L301**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L305**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L310**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L314**
📄 Database/Auth_Schema_Final.sql SELECT * should not be used.		**L319**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CS8602

Language
roslyn

Issues
13

.

Issues Breakdown

Services/CsvParseService.cs	**L63**
Jobs/DirectXmlExportBackgroundJob.cs	**L360**
Jobs/EcgXmlExcelExportBackgroundJob.cs	**L447**
Jobs/EcgXmlExportBackgroundJob.cs	**L390**
Jobs/ExcelExportBackgroundJob.cs	**L324**
Jobs/ExportBackgroundJob.cs	**L337**
Services/BatchDocumentLookupService.cs	**L122**
Services/BatchDocumentLookupService.cs	**L125**
Services/BatchDocumentLookupService.cs	**L133**
Services/BatchDocumentLookupService.cs	**L91**
Services/BatchDocumentLookupService.cs	**L94**
Services/BatchDocumentLookupService.cs	**L101**
Services/QueryService.cs	**L426**

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Project Name	**Branch** master	**Analysis Date**
TeraLinkaECGReport Backend API	**Version** not provided	2026-02-25

Rule

Awaitable method should be used

In an async method, any blocking operations should be avoided.

Language cs

Issues 7

🏷 **async-await**

Issues Breakdown

📄 Services/QueryService.cs Await IsDBNullAsync instead.	**L628**
📄 Jobs/EcgXmlExportBackgroundJob.cs Await WriteRecordsAsync instead.	**L435**
📄 Services/QueryTemplateService.cs Await IsDBNullAsync instead.	**L388**
📄 Services/QueryTemplateService.cs Await IsDBNullAsync instead.	**L401**
📄 Services/MetadataService.cs Await IsDBNullAsync instead.	**L116**
📄 Services/MetadataService.cs Await IsDBNullAsync instead.	**L194**
📄 Program.cs Await RunAsync instead.	**L284**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Methods should not have too many parameters

Language
cs

Issues
7

Why is this an issue? Methods with a long parameter list are difficult to use because maintainers must figure out the role of each parameter and keep track of their position.

🏷 **brain-overload**

Issues Breakdown

📄 Jobs/ExternalExportBackgroundJob.cs **L145**
Method has 9 parameters, which is greater than the 7 authorized.

📄 Jobs/EcgXmlExcelExportBackgroundJob.cs **L38**
Constructor has 8 parameters, which is greater than the 7 authorized.

📄 Jobs/ExcelExportBackgroundJob.cs **L37**
Constructor has 8 parameters, which is greater than the 7 authorized.

📄 Jobs/DirectXmlExportBackgroundJob.cs **L200**
Method has 9 parameters, which is greater than the 7 authorized

📄 Services/QueryService.cs **L39**
Constructor has 9 parameters, which is greater than the 7 authorized.

📄 Services/QueryPlanAnalyzer.cs **L20**
Method has 8 parameters, which is greater than the 7 authorized.

📄 Services/Auth/AuditLogService.cs **L20**
Method has 10 parameters, which is greater than the 7 authorized.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Value type property used as input in a controller action should be nullable, required or annotated with the JsonRe...

"Under-posting" refers to a situation where a client sends less data than expected to the server during an HTTP request, for example when the client omits some properties from the request body that the server expects to receive.

🏷 **asp.net**

Language
cs

Issues
5

Issues Breakdown

Models/DTOs/ExternalExport/ExternalExportRequestDto.cs   **L14**
Value type property used as input in a controller action should be nullable, required or annotated with the Js...

Models/DTOs/ExternalExport/ExternalExportRequestDto.cs   **L20**
Value type property used as input in a controller action should be nullable, required or annotated with the Js...

Models/DTOs/MetadataDto.cs   **L103**
Value type property used as input in a controller action should be nullable, required or annotated with the Js...

Models/DTOs/QueryTemplateDto.cs   **L8**
Value type property used as input in a controller action should be nullable, required or annotated with the Js...

Models/DTOs/QueryTemplateDto.cs   **L158**
Value type property used as input in a controller action should be nullable, required or annotated with the Js...

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Rule
external_roslyn:CS8601

Language
roslyn

Issues
5

.

Issues Breakdown

Services/QueryService.cs	**L134**
Services/QueryService.cs	**L201**
Services/QueryService.cs	**L293**
Services/QueryService.cs	**L363**
Controllers/ExportJobController.cs	**L753**

Code Smell
CS8619

Project Name
TeraLinkaECGReport Backend API

Branch master

Version not provided

Analysis Date
2026-02-25

Rule

external_roslyn:CS8619

Language
roslyn

Issues
4

.

Issues Breakdown

Services/QueryService.cs	**L114**
Services/QueryService.cs	**L274**
Services/QueryService.cs	**L632**
Services/QueryTemplateService.cs	**L384**

Code Smell
S1144

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Unused private types or members should be removed

Language
cs

Issues
4

This rule raises an issue when a private/internal type or member is never referenced in the code.

🏷 unused

Issues Breakdown

Services/DynamicSqlBuilder.cs   **L53**
Remove the unused private method 'GetTableColumns'.

Services/QueryTemplateService.cs   **L36**
Remove the unused private method 'GetCurrentUsername'.

Services/QueryTemplateService.cs   **L41**
Remove the unused private method 'IsCurrentUserAdmin'.

Services/QueryService.cs   **L34**
Remove the unused private field '_queryStatus'.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Mergeable "if" statements should be combined

Language
cs

Issues
3

Why is this an issue? Nested code - blocks of code inside blocks of code - is eventually necessary, but increases complexity.

🏷 **clumsy**

Issues Breakdown

📄 Services/QuerySafetyValidator.cs   **L150**
Merge this if statement with the enclosing one.

📄 Services/QueryTemplateService.cs   **L399**
Merge this if statement with the enclosing one.

📄 Services/QueryTemplateService.cs   **L401**
Merge this if statement with the enclosing one.

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Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Sections of code should not be commented out

Language
plsql

Issues
2

Why is this an issue? Commented-out code distracts the focus from the actual executed code.

🏷 unused

Issues Breakdown

📄 Database/OptimizeUserDefinesIndexes.sql
Remove this commented out code.

L3

📄 Database/OptimizeUserDefinesIndexes.sql
Remove this commented out code.

L11

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Controllers should not have mixed responsibilities

Language
cs

Issues
2

ASP.NET controllers should not have mixed responsibilities.

🏷 **asp.net**

Issues Breakdown

Controllers/QueryController.cs **L18**
This controller has multiple responsibilities and could be split into 2 smaller controllers.

Controllers/MetadataController.cs **L15**
This controller has multiple responsibilities and could be split into 2 smaller controllers.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Conditionally executed code should be reachable

Language
cs

Issues
2

Why is this an issue? Conditional expressions which are always true or false can lead to unreachable code.

🏷 **cwe** **pitfall** **suspicious** **symbolic-execution** **unused**

Issues Breakdown

📄 Services/FilterSqlBuilder.cs
Change this condition so that it does not always evaluate to 'True'. Some code paths are unreachable.
L189

📄 Services/FilterSqlBuilder.cs
Change this condition so that it does not always evaluate to 'True'. Some code paths are unreachable.
L80

SonarQube cloud

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Utility classes should not have public constructors

Language
cs

Issues
1

Why is this an issue? Whenever there are portions of code that are duplicated and do not depend on the state of their container class, they can be centralized inside a "utility class".

🏷 **design**

Issues Breakdown

📄 Services/Sql/ColumnMappingRegistry.cs **L9**
Add a 'protected' constructor or the 'static' keyword to the class declaration.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CS8618

Language
roslyn

Issues
1

.

Issues Breakdown

📄 Models/ExportModels/ExportJobSummaryDto.cs **L15**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Unused method parameters should be removed

Language
cs

Issues
1

Why is this an issue? 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.

🏷 **unused**

Issues Breakdown

📄 Jobs/DirectXmlExportBackgroundJob.cs
Remove this unused method parameter 'jobId'.

L445

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CS8604

Language
roslyn

Issues
1

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Issues Breakdown

Services/CsvParseService.cs   **L72**

Project Name
TeraLinkaECGReport Backend API

Branch   master
Version   not provided

Analysis Date
2026-02-25

Rule
external_roslyn:ASP0000

Language
roslyn

Issues
1

.

Issues Breakdown

📄 Program.cs   **L322**
Calling 'BuildServiceProvider' from application code results in an additional copy of singleton services being...

Rule
Formatting SQL queries is security-sensitive

Language
cs

Issues
1

Formatted SQL queries can be difficult to maintain, debug and can increase the risk of SQL injection when concatenating untrusted values into the query.

🏷 **bad-practice** **cwe** **sql**

Issues Breakdown

Services/QueryService.cs   **L884**
Make sure using a dynamically formatted SQL query is safe here.

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Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
String literals should not be duplicated

Language
cs

Issues
41

Why is this an issue? Duplicated string literals make the process of refactoring complex and error-prone, as any change would need to be propagated on all occurrences.

🏷 **design**

Issues Breakdown

📄 Controllers/TemplatesController.cs Define a constant instead of using this literal 'Admin' 6 times.	**L38**
📄 Controllers/TemplatesController.cs	**L87**
📄 Controllers/ExportJobController.cs Define a constant instead of using this literal 'No Documents' 6 times.	**L96**
📄 Controllers/ExportJobController.cs	**L97**
📄 Services/QueryService.cs	**L467**
📄 Services/QueryService.cs	**L489**
📄 Services/QueryService.cs	**L496**
📄 Controllers/ExportJobController.cs Define a constant instead of using this literal 'Internal Server Error' 12 times.	**L138**
📄 Controllers/QueryController.cs Define a constant instead of using this literal 'error' 6 times.	**L77**
📄 Services/QueryService.cs Define a constant instead of using this literal 'DefaultConnection' 5 times.	**L588**
📄 Services/DeidentificationService.cs Define a constant instead of using this literal 'PatientId' 5 times.	**L157**
📄 Services/DeidentificationService.cs Define a constant instead of using this literal 'PatientName' 5 times.	**L160**
📄 Services/DeidentificationService.cs Define a constant instead of using this literal 'DateOfBirth' 5 times.	**L163**
📄 Services/DeidentificationService.cs Define a constant instead of using this literal 'Gender' 5 times.	**L166**
📄 Controllers/AuthController.cs	**L121**
📄 Controllers/ExportJobController.cs Define a constant instead of using this literal 'Invalid Request' 6 times.	**L60**

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Project Name	Branch 🔀 master	Analysis Date
TeraLinkaECGReport Backend API	Version not provided	2026-02-25

Issues Breakdown

📄 Controllers/ExportJobController.cs
Define a constant instead of using this literal 'JobId is required' 6 times.
L61

📄 Controllers/ExportJobController.cs
Define a constant instead of using this literal 'Invalid JobId' 6 times.
L84

📄 Controllers/ExportJobController.cs
L85

📄 Infrastructure/ECGDbContext.cs
Define a constant instead of using this literal '(getdate())' 18 times.
L150

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'LEFT JOIN ECGExaminations e ON d.DocumentID = e.DocumentID' 4...
L42

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'ECGDocuments' 6 times.
L94

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'Patients' 5 times.
L139

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'ECGExaminations' 7 times.
L139

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'InterpretationStatements' 9 times.
L146

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'Interpretations' 10 times.
L146

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'GroupMeasurements' 7 times.
L186

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'GlobalMeasurements' 4 times.
L378

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal 'LEFT JOIN Interpretations i ON d.DocumentID = i.DocumentID' 4...
L388

📄 Controllers/MetadataController.cs
Define a constant instead of using this literal 'error' 9 times.
L49

📄 Services/DynamicSqlBuilder.cs
Define a constant instead of using this literal ' AND ' 4 times.
L463

📄 Services/OperatorMetadataService.cs
Define a constant instead of using this literal 'string' 14 times.
L37

📄 Services/OperatorMetadataService.cs
Define a constant instead of using this literal 'number' 12 times.
L37

📄 Services/OperatorMetadataService.cs
Define a constant instead of using this literal 'boolean' 6 times.
L37

📄 Controllers/RolesController.cs
L65

📄 Controllers/RolesController.cs
Define a constant instead of using this literal 'System' 4 times.
L124

📄 Controllers/UsersController.cs
L93

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Issues Breakdown

Controllers/UsersController.cs **L178**
Define a constant instead of using this literal 'System' 6 times.

Controllers/UsersController.cs **L182**
Define a constant instead of using this literal 'Users' 6 times.

Services/QueryPlanAnalyzer.cs **L239**
Define a constant instead of using this literal 'Medium' 5 times.

Services/Auth/AuthService.cs **L59**
Define a constant instead of using this literal 'Login' 6 times.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Methods and properties that don't access instance data should be static

Language
cs

Issues
41

Why is this an issue? Methods and properties that don't access instance data should be marked as static for the following reasons: Clarity and Intent: Marking a method/property as static makes it clear that the method does not depend on instance data and can be called without creating an instance of the class.

🏷 **pitfall**

Issues Breakdown

📄	Cli/CliCommandHandler.cs Make 'PrintUsage' a static method.	**L218**
📄	Cli/CliCommandHandler.cs Make 'PrintUnknownCommand' a static method.	**L250**
📄	Services/DynamicSqlBuilder.cs Make 'BuildConditionClause' a static method.	**L568**
📄	Services/FilterSqlBuilder.cs Make 'BuildFilterCondition' a static method.	**L88**
📄	Services/FilterSqlBuilder.cs Make 'BuildGlobalSearchCondition' a static method.	**L114**
📄	Controllers/BatchExportController.cs Make 'DetermineJobType' a static method.	**L184**
📄	Services/CsvParseService.cs Make 'GetFieldValue' a static method.	**L221**
📄	Jobs/EcgXmlExcelExportBackgroundJob.cs Make 'GetStatusFromProgress' a static method.	**L427**
📄	Jobs/ExcelExportBackgroundJob.cs Make 'GetStatusFromProgress' a static method.	**L304**
📄	Services/DynamicSqlBuilder.cs Make 'BuildStandardJoins' a static method.	**L38**
📄	Services/DynamicSqlBuilder.cs Make 'NeedsDistinct' a static method.	**L181**
📄	Services/DynamicSqlBuilder.cs Make 'NeedsRowNumberOptimization' a static method.	**L192**
📄	Services/DynamicSqlBuilder.cs Make 'GetRowNumberOrderBy' a static method.	**L280**
📄	Services/DynamicSqlBuilder.cs Make 'BuildSelectClause' a static method.	**L305**
📄	Services/DynamicSqlBuilder.cs Make 'BuildFromClauseForCount' a static method.	**L588**
📄	Services/ExcelExportService.cs Make 'WriteEcgDataToSheet' a static method.	**L87**

Issues Breakdown

Services/ExcelExportService.cs
Make 'WriteSingleLeadsDataToSheet' a static method.   **L130**

Services/ExcelExportService.cs
Make 'WriteMappingToSheet' a static method.   **L230**

Jobs/EcgXmlExportBackgroundJob.cs
Make 'GetStatusFromProgress' a static method.   **L524**

Jobs/EcgXmlExportBackgroundJob.cs
Make 'SanitizeFileName' a static method.   **L538**

Jobs/ExportBackgroundJob.cs
Make 'GetStatusFromProgress' a static method.   **L600**

Services/DeidentificationService.cs
Make 'MapGender' a static method.   **L193**

Services/DeidentificationService.cs
Make 'GetFieldDisplayName' a static method.   **L256**

Services/ECGCsvExportService.cs
Make 'ParseBasicInfo' a static method.   **L376**

Services/QuerySafetyValidator.cs
Make 'HasValidConditions' a static method.   **L113**

Services/QuerySafetyValidator.cs
Make 'DetectContradictoryConditions' a static method   **L123**

Services/QuerySafetyValidator.cs
Make 'CountTotalConditions' a static method.   **L258**

Services/QuerySafetyValidator.cs
Make 'EstimateParameterCount' a static method.   **L266**

Services/QueryTemplateService.cs
Make 'ReplaceParametersInSql' a static method.   **L729**

Services/Auth/PasswordService.cs
Make 'IsPasswordUsedBeforeAsync' a static method.   **L98**

Services/MetadataService.cs
Make 'GetAllowedOperators' a static method.   **L308**

Services/MetadataService.cs
Make 'GetSampleValue' a static method.   **L401**

Services/QueryService.cs
Make 'GetQueryResultsAsync' a static method.   **L380**

Authorization/RequirePermissionAttribute.cs
Make 'CheckPermission' a static method.   **L77**

Services/Auth/JwtTokenService.cs
Make 'GenerateRefreshToken' a static method.   **L68**

Services/Auth/PasswordService.cs
Make 'HashPassword' a static method.   **L19**

Services/Auth/PasswordService.cs
Make 'VerifyPassword' a static method.   **L27**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Services/DynamicSqlBuilder.cs
Make 'BuildFromClause' a static method.

L349

Services/QueryPlanAnalyzer.cs
Make 'ExtractEstimatedCost' a static method.

L150

Services/QueryPlanAnalyzer.cs
Make 'EvaluatePerformanceRating' a static method.

L392

Services/QueryPlanAnalyzer.cs
Make 'CleanTableName' a static method.

L450

Project Name	Branch master Analysis Date
TeraLinkaECGReport Backend API	Version not provided 2026-02-25

Rule

Loops should be simplified with "LINQ" expressions

Language
cs

Issues
7

Why is this an issue? Using explicit loops for filtering, selecting, or aggregating elements can make code more verbose and harder to read.

Issues Breakdown

Services/QuerySafetyValidator.cs   **L142**
Loop should be simplified by calling Select(gt => gt.Values))

Services/QuerySafetyValidator.cs   **L144**
Loop should be simplified by calling Select(lt => lt.Values))

Services/QuerySafetyValidator.cs   **L161**
Loop should be simplified by calling Select(between => between.Values))

Services/QuerySafetyValidator.cs   **L168**
Loop should be simplified by calling Select(gt => gt.Values))

Services/QuerySafetyValidator.cs   **L191**
Loops should be simplified using the "Where" LINQ method

Services/QuerySafetyValidator.cs   **L216**
Loop should be simplified by calling Select(child => child.GroupId))

Services/QueryPlanAnalyzer.cs   **L286**
Loop should be simplified by calling Select(scan => scan.TableName))

Project Name
TeraLinkaECGReport Backend API

Branch   master
Version   not provided

Analysis Date
2026-02-25

Rule
Types should be named in PascalCase

Language
cs

Issues
5

Why is this an issue? Shared naming conventions allow teams to collaborate efficiently.

🏷 **convention**

Issues Breakdown

Services/ECGCsvExportService.cs Rename interface 'IECGCsvExportService' to match pascal case naming rules, consider using 'IEcgCsvExportServic...	**L14**
Services/ECGCsvExportService.cs Rename class 'ECGCsvExportService' to match pascal case naming rules, consider using 'EcgCsvExportService'.	**L21**
Infrastructure/ECGDbContext.cs Rename class 'ECGDbContext' to match pascal case naming rules, consider using 'EcgDbContext'.	**L8**
Models/Entities/ECGDocument.cs Rename class 'ECGDocument' to match pascal case naming rules, consider using 'EcgDocument'.	**L6**
Models/Entities/ECGExamination.cs Rename class 'ECGExamination' to match pascal case naming rules, consider using 'EcgExamination'.	**L6**

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Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Unused local variables should be removed

Language
cs

Issues
5

Why is this an issue? 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.

🏷 **unused**

Issues Breakdown

Jobs/DirectXmlExportBackgroundJob.cs **L104**
Remove the unused local variable 'batchEnd'.

Jobs/EcgXmlExportBackgroundJob.cs **L135**
Remove the unused local variable 'batchEnd'.

Jobs/ExportBackgroundJob.cs **L131**
Remove the unused local variable 'batchEnd'.

Program.cs **L138**
Remove the unused local variable 'allowedOrigins'.

Services/Auth/AuthService.cs **L465**
Remove the unused local variable 'errors'.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
The code block contains too many logging calls

Language
cs

Issues
4

A code block should not contain too many logging statements of a specific level.

🏷 **logging**

Issues Breakdown

📄 Controllers/BatchExportController.cs **L91**
Reduce the number of Information logging calls within this code block from 4 to the 2 allowed.

📄 Jobs/ExternalExportBackgroundJob.cs **L65**
Reduce the number of Information logging calls within this code block from 3 to the 2 allowed.

📄 Services/QueryService.cs **L83**
Reduce the number of Information logging calls within this code block from 3 to the 2 allowed.

📄 Services/QueryService.cs **L232**
Reduce the number of Information logging calls within this code block from 3 to the 2 allowed.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Method overloads should be grouped together

Language
cs

Issues
2

Why is this an issue? For clarity, all overloads of the same method should be grouped together.

🏷 **convention**

Issues Breakdown

Services/QueryTemplateMapper.cs
All 'ToDto' method overloads should be adjacent.
L9

Services/QueryTemplateMapper.cs
All 'ToEntity' method overloads should be adjacent.
L24

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Implementations should be provided for "partial" methods

Language
cs

Issues
2

Why is this an issue? partial methods allow an increased degree of flexibility in programming a system.

🏷 **suspicious**

Issues Breakdown

📄 Infrastructure/ECGDbContext.cs **L630**
Supply an implementation for the partial method, otherwise this call will be ignored.

📄 Infrastructure/ECGDbContext.cs **L633**
Supply an implementation for this partial method.

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule

Non-derived "private" classes and records should be "sealed"

Language
cs

Issues
1

Why is this an issue? Classes and records with either private or file access modifiers aren't visible outside of their assemblies or files, so if they're not extended inside their scope, they should be made explicitly non-extensible with the addition of the sealed keyword.

🏷 **performance**

Issues Breakdown

Controllers/TemplateBuilderController.cs
Private classes which are not derived in the current assembly should be marked as 'sealed'.

L184

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
Redundant casts should not be used

Language
cs

Issues
1

Why is this an issue? Casting expressions are utilized to convert one data type to another, such as transforming an integer into a string.

🏷 **clumsy** **redundant**

Issues Breakdown

Services/QueryPlanAnalyzer.cs
Remove this unnecessary cast to 'long'.

L199

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1860

Language
roslyn

Issues
74

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Issues Breakdown

Jobs/ExternalExportBackgroundJob.cs	**L119**
Controllers/ExternalExportController.cs	**L99**
Jobs/ExternalExportBackgroundJob.cs	**L127**
Jobs/DirectXmlExportBackgroundJob.cs	**L154**
Jobs/EcgXmlExcelExportBackgroundJob.cs	**L187**
Jobs/EcgXmlExportBackgroundJob.cs	**L180**
Jobs/ExcelExportBackgroundJob.cs	**L188**
Jobs/ExportBackgroundJob.cs	**L197**
Jobs/ExportBackgroundJob.cs	**L204**
Controllers/QueryController.cs	**L54**
Services/QueryService.cs	**L87**
Services/QueryService.cs	**L159**
Services/QueryService.cs	**L164**
Services/QueryService.cs	**L169**
Services/CsvParseService.cs	**L207**
Jobs/DirectXmlExportBackgroundJob.cs	**L146**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Jobs/EcgXmlExcelExportBackgroundJob.cs	**L293**
Services/ExcelExportService.cs	**L41**
Services/ExcelExportService.cs	**L70**
Services/ExcelExportService.cs	**L89**
Services/ExcelExportService.cs	**L132**
Services/ExcelExportService.cs	**L232**
Services/QueryService.cs	**L320**
Services/QueryService.cs	**L325**
Services/QueryService.cs	**L330**
Jobs/EcgXmlExportBackgroundJob.cs	**L293**
Jobs/ExportBackgroundJob.cs	**L178**
Jobs/ExportBackgroundJob.cs	**L442**
Services/DataIntegrityService.cs	**L65**
Services/DataIntegrityService.cs	**L66**
Services/DataIntegrityService.cs	**L67**
Services/DataIntegrityService.cs	**L68**
Services/DataIntegrityService.cs	**L69**
Services/DataIntegrityService.cs	**L70**
Services/DataIntegrityService.cs	**L71**
Services/DataIntegrityService.cs	**L72**
Services/DataIntegrityService.cs	**L73**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Services/DataIntegrityService.cs	**L74**
Services/DataIntegrityService.cs	**L324**
Services/DataIntegrityService.cs	**L337**
Services/DataIntegrityService.cs	**L350**
Services/DataIntegrityService.cs	**L363**
Services/DataIntegrityService.cs	**L396**
Services/DynamicSqlBuilder.cs	**L169**
Services/DynamicSqlBuilder.cs	**L435**
Services/DynamicSqlBuilder.cs	**L491**
Services/DynamicSqlBuilder.cs	**L517**
Services/ECGCsvExportService.cs	**L40**
Services/ECGCsvExportService.cs	**L87**
Services/ExportJobService.cs	**L307**
Services/QuerySafetyValidator.cs	**L45**
Services/QuerySafetyValidator.cs	**L52**
Services/QuerySafetyValidator.cs	**L88**
Services/QuerySafetyValidator.cs	**L103**
Services/QuerySafetyValidator.cs	**L115**
Services/QuerySafetyValidator.cs	**L116**
Services/QuerySafetyValidator.cs	**L146**
Services/QuerySafetyValidator.cs	**L146**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Services/QuerySafetyValidator.cs	**L170**
Services/QuerySafetyValidator.cs	**L238**
Services/QueryService.cs	**L236**
Services/QueryTemplateService.cs	**L179**
Services/QueryTemplateService.cs	**L287**
Services/QueryTemplateService.cs	**L412**
Services/QueryTemplateService.cs	**L713**
Controllers/FunctionsController.cs	**L271**
Controllers/RolesController.cs	**L110**
Controllers/RolesController.cs	**L254**
Controllers/UsersController.cs	**L155**
Services/Auth/AuthService.cs	**L408**
Services/DynamicSqlBuilder.cs	**L424**
Services/DynamicSqlBuilder.cs	**L468**
Services/DynamicSqlBuilder.cs	**L556**
Services/QueryPlanAnalyzer.cs	**L353**

Project Name
TeraLinkaECGReport Backend API

Branch ⌥ master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1822

Language
roslyn

Issues
46

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Issues Breakdown

📄 Cli/CliCommandHandler.cs	**L218**
📄 Cli/CliCommandHandler.cs	**L250**
📄 Jobs/ExternalExportBackgroundJob.cs	**L327**
📄 Services/DynamicSqlBuilder.cs	**L568**
📄 Services/FilterSqlBuilder.cs	**L88**
📄 Services/FilterSqlBuilder.cs	**L114**
📄 Controllers/BatchExportController.cs	**L184**
📄 Services/CsvParseService.cs	**L221**
📄 Jobs/DirectXmlExportBackgroundJob.cs	**L393**
📄 Jobs/EcgXmlExcelExportBackgroundJob.cs	**L427**
📄 Jobs/ExcelExportBackgroundJob.cs	**L304**
📄 Services/DynamicSqlBuilder.cs	**L38**
📄 Services/DynamicSqlBuilder.cs	**L181**
📄 Services/DynamicSqlBuilder.cs	**L192**
📄 Services/DynamicSqlBuilder.cs	**L280**
📄 Services/DynamicSqlBuilder.cs	**L305**

Project Name
TeraLinkaECGReport Backend API

Branch **master**
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Services/DynamicSqlBuilder.cs	**L588**
Services/ExcelExportService.cs	**L87**
Services/ExcelExportService.cs	**L130**
Services/ExcelExportService.cs	**L230**
Jobs/EcgXmlExportBackgroundJob.cs	**L426**
Jobs/EcgXmlExportBackgroundJob.cs	**L524**
Jobs/EcgXmlExportBackgroundJob.cs	**L538**
Jobs/ExportBackgroundJob.cs	**L600**
Services/DeidentificationService.cs	**L193**
Services/DeidentificationService.cs	**L256**
Services/DynamicSqlBuilder.cs	**L157**
Services/ECGCsvExportService.cs	**L337**
Services/ECGCsvExportService.cs	**L376**
Services/QuerySafetyValidator.cs	**L113**
Services/QuerySafetyValidator.cs	**L123**
Services/QuerySafetyValidator.cs	**L206**
Services/QuerySafetyValidator.cs	**L246**
Services/QuerySafetyValidator.cs	**L258**
Services/QuerySafetyValidator.cs	**L266**
Services/QueryTemplateService.cs	**L729**
Services/MetadataService.cs	**L308**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Issues Breakdown

Services/MetadataService.cs	**L401**
Authorization/RequirePermissionAttribute.cs	**L77**
Services/Auth/AuthService.cs	**L550**
Services/DynamicSqlBuilder.cs	**L349**
Services/QueryPlanAnalyzer.cs	**L94**
Services/QueryPlanAnalyzer.cs	**L150**
Services/QueryPlanAnalyzer.cs	**L282**
Services/QueryPlanAnalyzer.cs	**L392**
Services/QueryPlanAnalyzer.cs	**L450**

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Code Smell
CA1854

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1854

Language
roslyn

Issues
6

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Issues Breakdown

Services/DeidentificationService.cs	**L134**
Services/DeidentificationService.cs	**L143**
Services/MetadataService.cs	**L115**
Services/MetadataService.cs	**L141**
Services/MetadataService.cs	**L181**
Services/MetadataService.cs	**L182**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1859

Language
roslyn

Issues
4

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Issues Breakdown

Jobs/EcgXmlExcelExportBackgroundJob.cs	**L98**
Jobs/ExcelExportBackgroundJob.cs	**L97**
Jobs/EcgXmlExportBackgroundJob.cs	**L111**
Jobs/ExportBackgroundJob.cs	**L112**

Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1869

Language
roslyn

Issues
3

.

Issues Breakdown

📄 Cli/CliCommandHandler.cs		**L181**
📄 Services/QueryPlanAnalyzer.cs		**L461**
📄 Services/QueryPlanAnalyzer.cs		**L476**

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Project Name
TeraLinkaECGReport Backend API

Branch master
Version not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1868

Language
roslyn

Issues
2

.

Issues Breakdown

📄 Services/DynamicSqlBuilder.cs   **L675**

📄 Services/DynamicSqlBuilder.cs   **L94**

Project Name
TeraLinkaECGReport Backend API

Branch   master
Version   not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1850

Language
roslyn

Issues
1

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Issues Breakdown

Services/ApiKeyService.cs   **L218**

SonarQube cloud

Project Name
TeraLinkaECGReport Backend API

Branch
master

Version
not provided

Analysis Date
2026-02-25

Rule
external_roslyn:CA1861

Language
roslyn

Issues
1

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Issues Breakdown

📄 Program.cs   **L226**