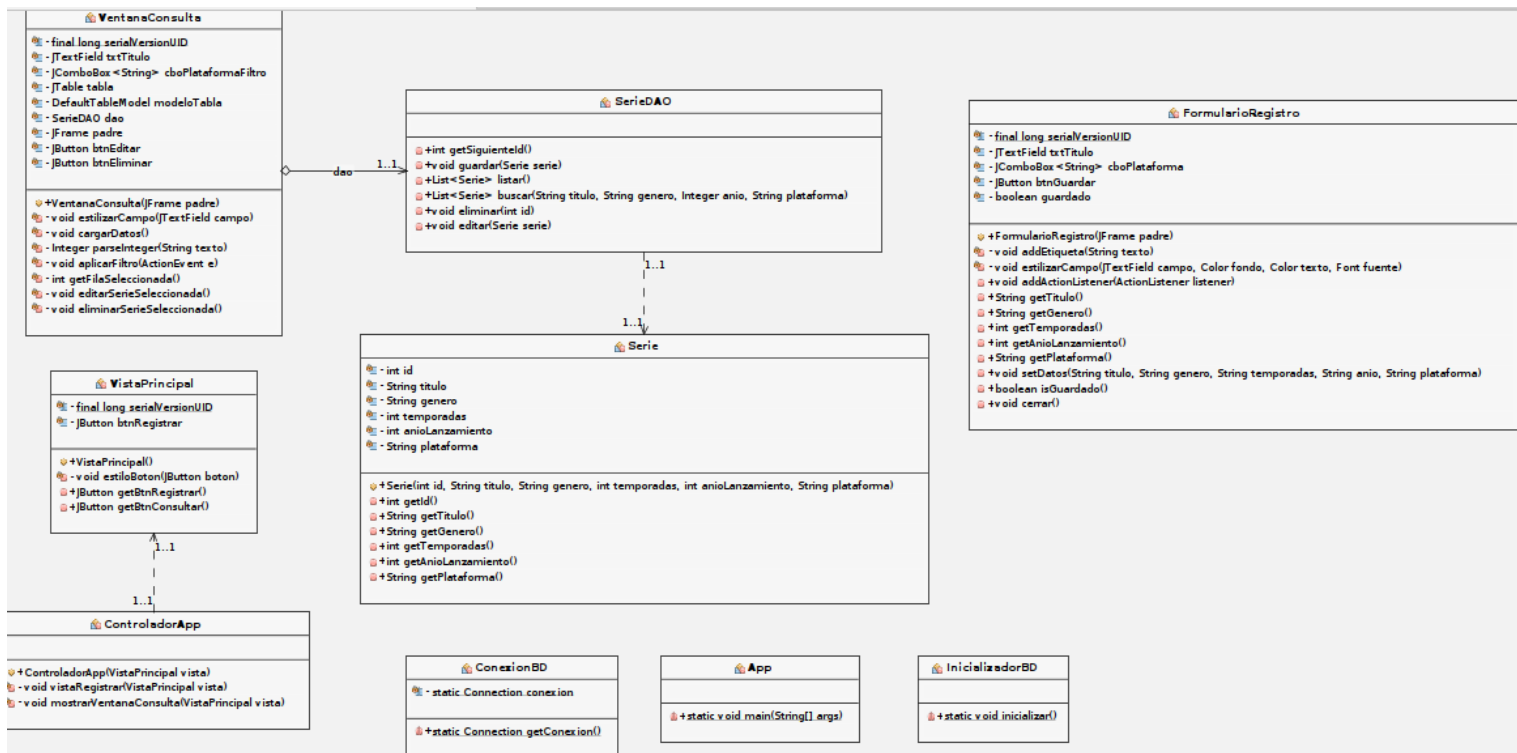
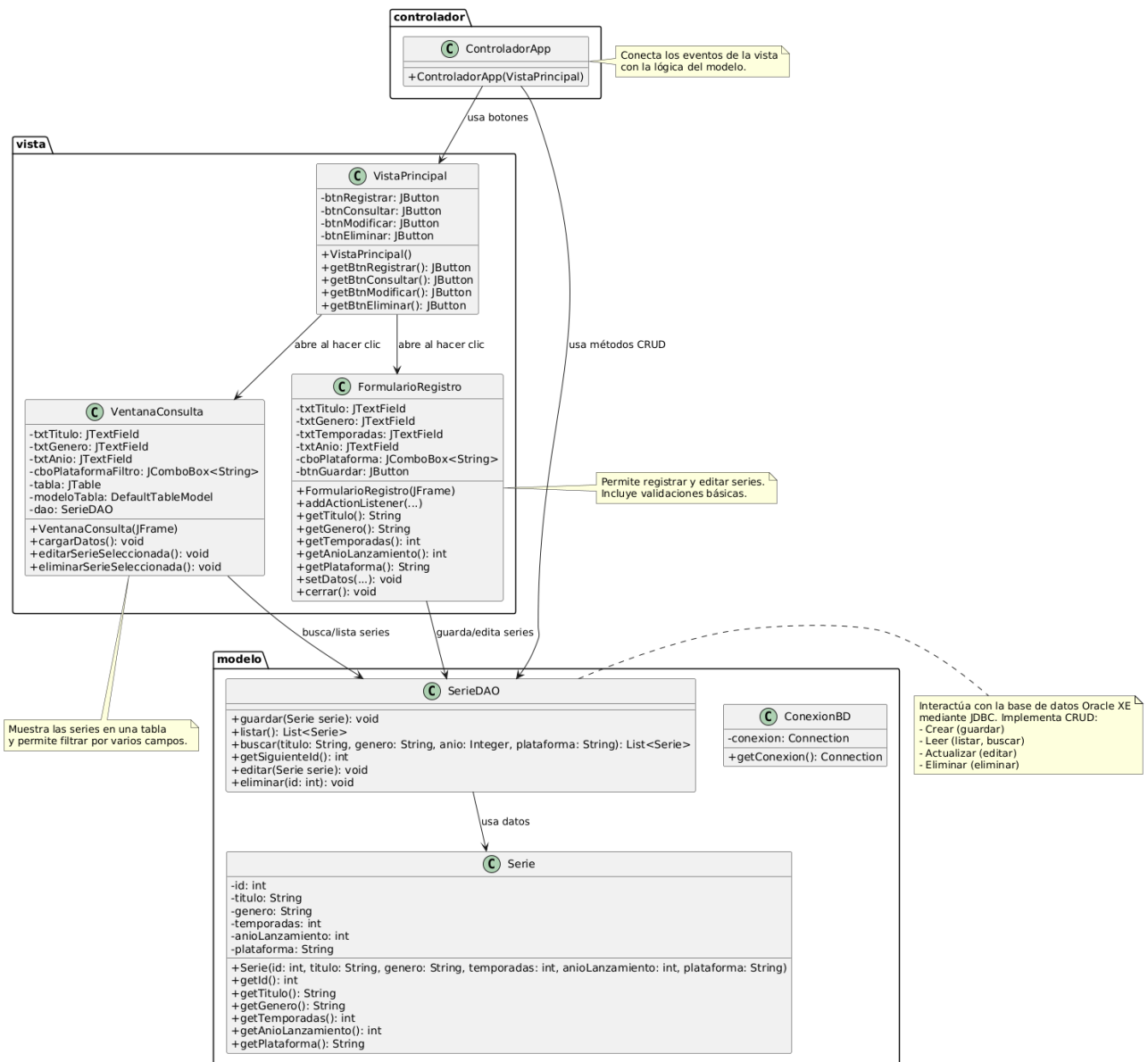


UML

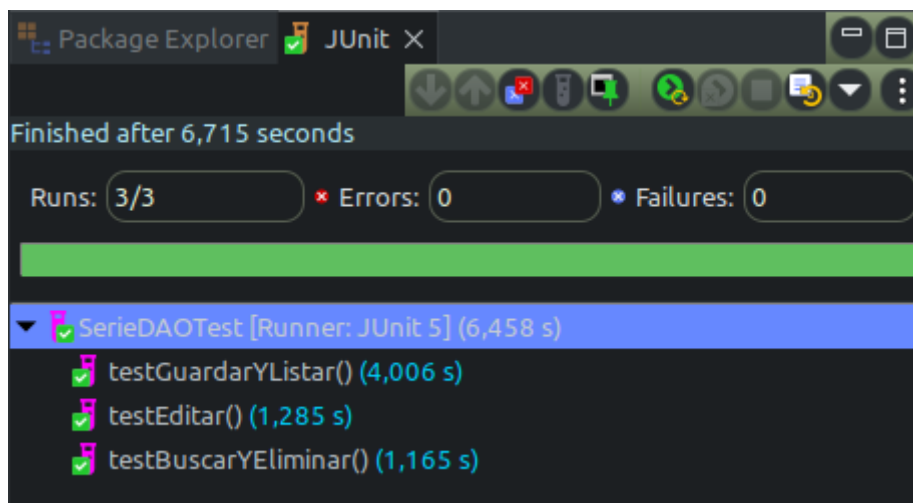
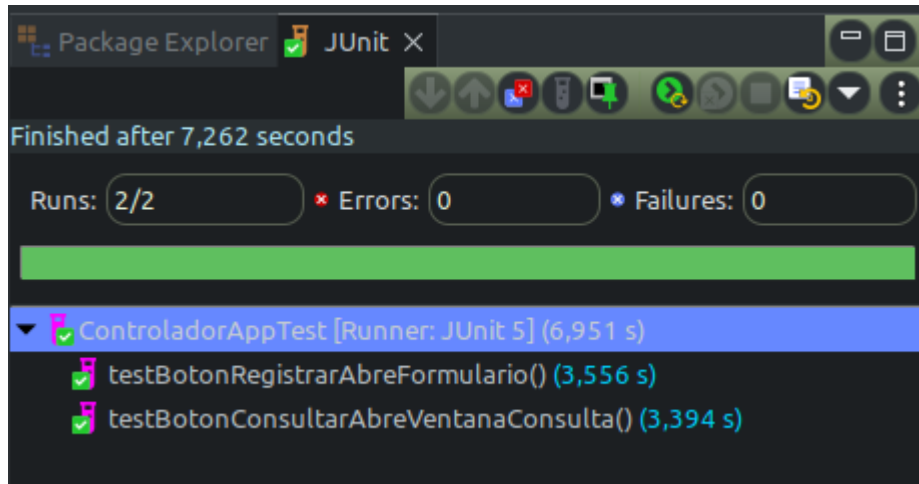
A continuación incluyo dos imágenes de diagrama UML, el primero es el que conseguí generar directamente desde el proyecto, el cual deja bastante que desear y no entiendo mucho porque lo genera así, el segundo lo generé a través de IA, pasándole mi proyecto completo:





PRUEBAS UNITARIAS

A continuación incluyo captura del resultado positivo de las pruebas unitarias realizadas, dichas pruebas irán adjuntas en el proyecto:



REFACTORIZACION (PMD)

A continuación incluyo una serie de capturas del resultado de pasar la herramienta pmd al código del proyecto, me focalice en cambiar los de carácter más importante.

ControladorApp.java

Violations Outline X				
Pri	Line	created	Rule	Error Message
▶	10	Thu May 29 18:20:42	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'vista' is not assigned and could be declared final
▶	73	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'ventanaConsulta' could be declared final
▶	72	Thu May 29 18:20:42	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'vista' is not assigned and could be declared final
▶	44	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'serie' could be declared final
▶	43	Thu May 29 18:20:42	ShortVariable	ShortVariable: Avoid variables with short names like id
▶	22	Thu May 29 18:20:42	ShortVariable	ShortVariable: Avoid variables with short names like e
▶	10	Thu May 29 18:20:42	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	32	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'dao' could be declared final
▶	36	Thu May 29 18:20:42	ShortVariable	ShortVariable: Avoid variables with short names like ev
▶	8	Thu May 29 18:20:42	CommentRequired	CommentRequired: Class comments are required
▶	43	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'id' could be declared final
▶	30	Thu May 29 18:20:42	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'vista' is not assigned and could be declared final
▶	31	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'dialog' could be declared final
▶	14	Thu May 29 18:20:42	ShortVariable	ShortVariable: Avoid variables with short names like e

ConexionBD.java

Violations Outline X				
Pri	Line	created	Rule	Error Message
▶	16	Thu May 29 18:20:42	NonThreadSafeSingleton	NonThreadSafeSingleton: Singleton is not thread safe
▶	12	Thu May 29 18:20:42	RedundantFieldInitializer	RedundantFieldInitializer: Avoid using redundant field initializer for 'conexion'
▶	9	Thu May 29 18:20:42	CommentRequired	CommentRequired: Class comments are required
▶	12	Thu May 29 18:20:42	CommentRequired	CommentRequired: Field comments are required
▶	9	Thu May 29 18:20:42	UseUtilityClass	UseUtilityClass: This utility class has a non-private constructor
▶	10	Thu May 29 18:20:42	CommentSize	CommentSize: Comment is too large: Line too long
▶	25	Thu May 29 18:20:42	AvoidPrintStackTrace	AvoidPrintStackTrace: Avoid printStackTrace(); use a logger call instead.

InicializadorBD.java

Violations Outline X				
Pri	Line	created	Rule	Error Message
▶	37	Thu May 29 18:20:42	AvoidPrintStackTrace	AvoidPrintStackTrace: Avoid printStackTrace(); use a logger call instead.
▶	11	Thu May 29 18:20:42	UseUtilityClass	UseUtilityClass: This utility class has a non-private constructor
▶	11	Thu May 29 18:20:42	CommentRequired	CommentRequired: Class comments are required
▶	19	Thu May 29 18:20:42	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'creaTabla' could be declared final
▶	13	Thu May 29 18:20:42	CommentRequired	CommentRequired: Public method and constructor comments are required

Serie.java

Violations Outline X

Pri	Line	created	Rule	Error Message
11	4	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
4	5	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
5	3	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
3	11	Thu May 29 18:28:31	DataClass	DataClass: The class 'Serie' is suspected to be a Data Class (WOC=0.000%, NOPA=0, NOAM=6, WMC=7)
11	7	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'temporadas' is not assigned and could be declared final
7	11	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
11	8	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'id' is not assigned and could be declared final
8	9	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
9	11	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
11	6	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'anioLanzamiento' is not assigned and could be declared final
6	11	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
11	4	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'titulo' is not assigned and could be declared final
4	3	Thu May 29 18:28:31	ShortVariable	ShortVariable: Avoid variables with short names like id
3	11	Thu May 29 18:28:31	CommentRequired	CommentRequired: Class comments are required
11	11	Thu May 29 18:28:31	ShortVariable	ShortVariable: Avoid variables with short names like id
11	11	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'genero' is not assigned and could be declared final
11	11	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'plataforma' is not assigned and could be declared final

SerieDAO.java

Violations Outline X				
Pri	Line	created	Rule	Error Message
60	Thu May 29 18:28:31	CommentRequired	CommentRequired	CommentRequired: Public method and constructor comments are required
149	Thu May 29 18:28:31	CommentRequired	CommentRequired	CommentRequired: Public method and constructor comments are required
36	Thu May 29 18:28:31	CommentRequired	CommentRequired	CommentRequired: Public method and constructor comments are required
112	Thu May 29 18:28:31	AvoidInstantiatingObjectsInLoops	AvoidInstantiatingObjectsInLoops	AvoidInstantiatingObjectsInLoops: Avoid instantiating new objects inside loops
134	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'sql' could be declared final
95	Thu May 29 18:28:31	ConsecutiveLiteralAppends	ConsecutiveLiteralAppends	ConsecutiveLiteralAppends: StringBuffer (or StringBuilder).append is called 2 consecutive times with literals. Use
37	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'sql' could be declared final
14	Thu May 29 18:28:31	CommentSize	CommentSize	CommentSize: Comment is too large: Line too long
21	Thu May 29 18:28:31	ShortVariable	ShortVariable	ShortVariable: Avoid variables with short names like rs
15	Thu May 29 18:28:31	CommentRequired	CommentRequired	CommentRequired: Public method and constructor comments are required
90	Thu May 29 18:28:31	NPathComplexity	NPathComplexity	NPathComplexity: The method 'buscar(String, String, Integer, String)' has an NPath complexity of 324, current t
144	Thu May 29 18:28:31	AvoidPrintStackTrace	AvoidPrintStackTrace	AvoidPrintStackTrace: Avoid printStackTrace(); use a logger call instead.
36	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'serie' is not assigned and could be declared final
82	Thu May 29 18:28:31	AvoidPrintStackTrace	AvoidPrintStackTrace	AvoidPrintStackTrace: Avoid printStackTrace(); use a logger call instead.
90	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'genero' is not assigned and could be declared final
95	Thu May 29 18:28:31	AppendCharacterWithChar	AppendCharacterWithChar	AppendCharacterWithChar: Avoid appending characters as strings in StringBuffer.append.
90	Thu May 29 18:28:31	CyclomaticComplexity	CyclomaticComplexity	CyclomaticComplexity: The method 'buscar(String, String, Integer, String)' has a cyclomatic complexity of 11.
90	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'plataforma' is not assigned and could be declared final
62	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'lista' could be declared final
109	Thu May 29 18:28:31	ShortVariable	ShortVariable	ShortVariable: Avoid variables with short names like rs
149	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'serie' is not assigned and could be declared final

App.java

Violations Outline				
Pri	Line	created	Rule	Error Message
▶	18	Thu May 29 18:28:31	AvoidPrintStackTrace	AvoidPrintStackTrace: Avoid printStackTrace(); use a logger call instead.
▶	11	Thu May 29 18:28:31	UseUtilityClass	UseUtilityClass: This utility class has a non-private constructor
▶	23	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'vista' could be declared final
▶	11	Thu May 29 18:28:31	CommentRequired	CommentRequired: Class comments are required
▶	12	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	26	Thu May 29 18:28:31	UnusedLocalVariable	UnusedLocalVariable: Avoid unused local variables such as 'controlador'.
▶	17	Thu May 29 18:28:31	AvoidCatchingGenericException	AvoidCatchingGenericException: Avoid catching generic exceptions such as NullPointerException, RuntimeException
▶	11	Thu May 29 18:28:31	ShortClassName	ShortClassName: Avoid short class names like App

FormularioRegistro.java

Violations Outline				
Pri	Line	created	Rule	Error Message
▶	108	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	22	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'padre' is not assigned and could be declared final
▶	82	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'campo' is not assigned and could be declared final
▶	19	Thu May 29 18:28:31	RedundantFieldInitializer	RedundantFieldInitializer: Avoid using redundant field initializer for 'guardado'
▶	22	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	10	Thu May 29 18:28:31	CommentRequired	CommentRequired: Class comments are required
▶	41	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'plataformas' could be declared final
▶	19	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	120	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'temporadas' is not assigned and could be declared final
▶	120	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'anio' is not assigned and could be declared final
▶	17	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'cboPlataforma' may be declared final
▶	9	Thu May 29 18:28:31	CommentSize	CommentSize: Comment is too large: Line too long
▶	17	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	120	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	109	Thu May 29 18:28:31	OnlyOneReturn	OnlyOneReturn: A method should have only one exit point, and that should be the last statement in the method
▶	82	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'fuente' is not assigned and could be declared final
▶	16	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'txtTitulo' may be declared final
▶	120	Thu May 29 18:28:31	UseObjectForClearerAPI	UseObjectForClearerAPI: Rather than using a lot of String arguments, consider using a container object for those arguments
▶	88	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	120	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'titulo' is not assigned and could be declared final
▶	32	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'colorFondoCampo' could be declared final

VentanaConsulta.java

Pri	Line	created	Rule	Error Message
▶	97	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'scrollPane' could be declared final
▶	18	Thu May 29 18:28:31	LongVariable	LongVariable: Avoid excessively long variable names like cboPlataformaFiltro
▶	159	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'fila' could be declared final
▶	158	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'serie' could be declared final
▶	193	Thu May 29 18:28:31	OnlyOneReturn	OnlyOneReturn: A method should have only one exit point, and that should be the last statement in the method
▶	21	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'dao' may be declared final
▶	67	Thu May 29 18:28:31	AvoidDuplicateLiterals	AvoidDuplicateLiterals: The String literal "Segoe UI" appears 6 times in this file; the first occurrence is on line 67
▶	23	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	121	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'btnCerrar' could be declared final
▶	22	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'padre' may be declared final
▶	152	Thu May 29 18:28:31	AvoidLiteralsInIfCondition	AvoidLiteralsInIfCondition: Avoid using literals in if statements
▶	18	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'cboPlataformaFiltro' may be declared final
▶	37	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'panelFiltros' could be declared final
▶	259	Thu May 29 18:28:31	ShortVariable	ShortVariable: Avoid variables with short names like id
▶	19	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	150	Thu May 29 18:28:31	LawOfDemeter	LawOfDemeter: Call to 'getSelectedItem' on foreign value 'cboPlataformaFiltro' (degree 1)
▶	149	Thu May 29 18:28:31	LocalVariableCouldBeFinal	LocalVariableCouldBeFinal: Local variable 'anio' could be declared final
▶	21	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	171	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'texto' is not assigned and could be declared final
▶	23	Thu May 29 18:28:31	SingularField	SingularField: Perhaps 'btnEditar' could be replaced by a local variable.
▶	22	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required

VistaPrincipal.java

Pri	Line	created	Rule	Error Message
▶	14	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'btnRegistrar' may be declared final
▶	14	Thu May 29 18:28:31	ImmutableField	ImmutableField: Field 'btnConsultar' may be declared final
▶	14	Thu May 29 18:28:31	CommentRequired	CommentRequired: Field comments are required
▶	37	Thu May 29 18:28:31	MethodArgumentCouldBeFinal	MethodArgumentCouldBeFinal: Parameter 'boton' is not assigned and could be declared final
▶	8	Thu May 29 18:28:31	CommentRequired	CommentRequired: Class comments are required
▶	7	Thu May 29 18:28:31	CommentSize	CommentSize: Comment is too large: Line too long
▶	16	Thu May 29 18:28:31	CallSuperInConstructor	CallSuperInConstructor: It is a good practice to call super() in a constructor
▶	16	Thu May 29 18:28:31	CommentRequired	CommentRequired: Public method and constructor comments are required
▶	19	Thu May 29 18:28:31	UnnecessaryFullyQualifiedName	UnnecessaryFullyQualifiedName: Unnecessary qualifier 'JFrame': 'WindowConstants.EXIT_ON_CLOSE' is already defined
▶	14	Thu May 29 18:28:31	OneDeclarationPerLine	OneDeclarationPerLine: Use one line for each declaration, it enhances code readability.

Hay bastantes avisos similares, comentarios, declarar atributos finales, y algunos que no termino de entender, no he entrado en mucha mas profundidad.