GenetikTest

Abel Hodelin Hernandez, Timur Horn

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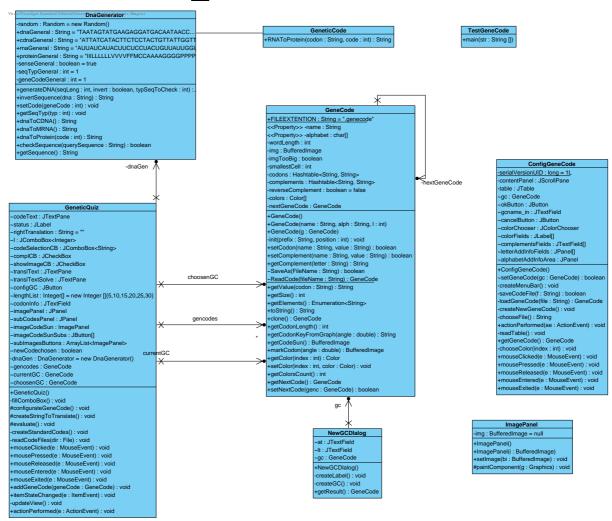
GenetikTest CD4

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GIIGUK 1 G3L_OD	••

Class Diagram

GenetikTest_CD



Name	Value
Name	GenetikTest_CD
Author	her_hod
Create Date Time	01.07.2015 12:55:52
Last Modified	01.07.2015 13:20:29

Summary

Name	Description
DnaGenerator	Ein Programm für Üben der genetiaschen Verfahren:
	Replication (DNA zu cDNA), Transcription (DNA zu mRNA), Translation(mRNA zu Protein).
	@author Abel Hodelin Hernandez @author Timur Horn @version 1.0
GeneticCode	Speicher die genetischen Code: Standard

1	Vertebrate Mitochondrial
	@author Abel Hodelin Hernandez @author Timur Horn @version 1.0
TestGeneCode	
GeneCode	
ConfigGeneCode	
GeneticQuiz	
ImagePanel	
NewGCDIalog	

Details

DnaGenerator

Name	Value				
Description	Ein Programm für Üben der g	Ein Programm für Üben der genetiaschen Verfahren:			
		Replication (DNA zu cDNA), Transcription (DNA zu mRNA), Translation(mRNA zu Protein).			
	@author Abel Hodelin Hernal @author Timur Horn @version 1.0	1			
Active	false	false			
Business Key Mutable	true	true			
Java Detail	N/A	N/A			
Business Model	false	false			
Visibility	public	public			
Leaf	false	false			
Root	false	false			
Project Management	Name	Value			
	Author	her_hod			
	Create Date Time	01.07.2015 12:58:00			
	Last Modified	01.07.2015 13:20:13			

Attributes

private random : java.util.Random					
Initial Value	new Random()				
Туре	java.util.Random				
Allow Empty Name	false				
Getter	false	Setter	false		
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				

Aggregation	None			
Derived Union	false	false		
Read Only	false	false		
Is ID	false			
Leaf	false	false		
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:00		
	Last Modified	01.07.2015 13:08:25		

				·	
public dnaGeneral : String					
Initial Value	"TAATAGTATGAAGA	"TAATAGTATGAAGAGGATGACAATAACCAACAGCATCACAAAAAGTACACA			
Туре	String				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
ls ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:58:00	
	Last Modified		01.07.2015	13:08:25	

public cdnaGeneral : Str	ing				
Description	generierte DNA	generierte DNA-Sequenz			
Initial Value	"ATTATCATAC	"ATTATCATACTTCTCCTACTGTTATTGGTTGTCGTAGTGTTTTCATGTGTT			
Туре	String				
Allow Empty Name	false				
Getter	false	Setter	false		
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

public rnaGeneral : String				
Description	cDNA	cDNA		
Initial Value	"AUUAUCAUACUUCU	CCUACUGUU	AUUGGUUGI	JCGUAGUGUUUUUCAU
Туре	String			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			_
Aggregation	None			,
Derived Union	false			
Read Only	false			
ls ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:00
	Last Modified		01.07.2015	13:08:25

public proteinGeneral : String				
Description	mRNA	mRNA		
Initial Value	"IIILLLLLLVVVVFFMC	CAAAAGGGGF	PPPTTTTSS	SSSSYYWQQNNHHEEDI
Туре	String			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			_
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			_
ls ID	false			_
Leaf	false			_
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:00
	Last Modified		01.07.2015	13:08:25

private senseGeneral : boolear	า			
Description	Protein			
Initial Value	true			
Туре	boolean			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:00
	Last Modified		01.07.2015	13:08:25

private seqTypGeneral : int				
Description	Richtung zum lesen			
Initial Value	1			
Туре	o int			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			,
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false	-		
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:00
	Last Modified		01.07.2015	13:08:25

private geneCodeGeneral : int		
Description	Verfahren	
Initial Value	1	
Туре	o int	

Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:00	
	Last Modified		01.07.2015 13:08:25	

public generateDNA (seqLeng : int, invert : boolean, typSeqToCheck : int) : String

Parameters	seqLeng				
	Multiplicity	Unspecified	b		
	Туре	o int			
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date	e Time	01.07.2015 12:58:00	
		Last Modifi	ed	01.07.2015 13:08:25	
	invert				
	Multiplicity	Unspecified	4		
	Туре	boolean			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date	e Time	01.07.2015 12:58:00	
			Last Modified 01.07.2015 13:08:		
		'		<u>'</u>	
	typSeqToCheck				
	Multiplicity	Unspecified	<u>t</u>		
	Туре	int int			
	Direction inout				
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date		01.07.2015 12:58:00	
		Last Modifi	ed	01.07.2015 13:08:25	
Description	Generiert die DNA-Sequen	Z			
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Return Type Description	dnaGeneral: DNA-Sequenz	<u>.</u>			
Query	false				
Project Management	Name		lue		
	Author		her_hod		
	Create Date Time		01.07.2015 12:58:00		
	Last Modified	01.	07.2015 13	3:08:25	

Parameters	dna			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:58:00
		Last Modified		01.07.2015 13:08:25
Description	Invertiert die XNA-Sequenz			
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Return Type Description	dna: umgekehrte XNA-Sequenz			
Query	false			
Project Management	Name Value		Value	
	Author her_hod			
	Create Date Time 01.07.2015 12:58:00		2:58:00	
	Last Modified 01.07.2015 13:08:25		3:08:25	

public setCode (geneCode : int) : void				
Parameters	geneCode			
	Multiplicity	Unspecified		
	Туре	int int		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name		Value
		Author		her_hod
		Create Date Time		01.07.2015 12:58:00
		Last Modified		01.07.2015 13:08:25
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name Value			
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:00	
	Last Modified 01.07.2015 13:08:25		:08:25	

Parameters	typ				
	Multiplicity	Unspe	Unspecified		
	Туре	int			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:58:00	
		Last M	odified	01.07.2015 13:08:25	
Leaf	false				
Upper	1	1			
Ordered	false	false			
Unique	true	true			
Query	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time 01.07.2015 12:58:00 Last Modified 01.07.2015 13:08:25		:58:00		
			:08:25		

public dnaToCDNA (): String			
Description	Replication (DNA zu cDNA)		
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Return Type Description	cdnaGeneral: cDNA-Sequenz		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

public dnaToMRNA () : String	
Description	Transcription (DNA zu mRNA)
Leaf	false
Upper	1
Ordered	false
Unique	true
Return Type Description	rnaGeneral: mRNA-Sequenz
Query	false

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:00
	Last Modified	01.07.2015 13:08:25

public dnaToProtein (code : int) : String					
Parameters	code				
	Multiplicity	Unspe	ut		
	Туре	o int			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:58:00	
		Last Modified		01.07.2015 13:08:25	
Description	Translation (mRNA zu Protein)				
Leaf	false				
Upper	1	1			
Ordered	false				
Unique	true				
Return Type Description	proteinGeneral: Protein-Seque	nz			
Query	false				
Project Management	Name Value				
	Author		her_hod		
	Create Date Time		01.07.2015 12	:58:00	
	Last Modified 01.07.201			7.2015 13:08:25	

public checkSequence (querySequence : String) : boolean				
Parameters	querySequence			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:00	
		Last Modified	01.07.2015 13:08:25	
Description	Analysiert das Ergebnis Vergleich die erzeugte X-Sequenze mit der Sequenz des Benutzers			
Leaf	false			
Upper	1			
Ordered	false			

Unique	true		
Return Type Description	true wenn beide Sequenze gleich sind, sonst false		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:00	
	Last Modified	01.07.2015 13:08:25	

public getSequence () : String			
Description	Zeigt das Ergebnis (Sequenze)		
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Return Type Description	seq: X-Sequenze		
Query	false		
Project Management	Name Value		
	Author her_hod		
	Create Date Time 01.07.2015 12:58:00		
	Last Modified	01.07.2015 13:08:25	

Relationships

Unnamed Association					
То	Name	Value			
	End Model Element	GeneticCode			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	Unspecified			
	Visibility	Unspecified	Unspecified		
	Aggregation Kind	None			
	Navigable	Navigable			
	Derived	false			
	Derived Union	false			
	Read Only	false			
	Static	false			
	Leaf	false			
	Туре	GeneticCode			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 13:08:10		

Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				
Project Management	Name	Name		Value	
	Author		her_hod		
	Create Date Time		01.07.2015 13	3:08:10	
	Last Modified		01.07.2015 13	01.07.2015 13:20:13	
Unnamed Association					
From	Name	Value			
	End Model Element	□ Ge	neticQuiz		
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	Unspecified Unspecified None Non Navigable			
	Visibility				
	Aggregation Kind				
	Navigable				
	Derived	false			
	Derived Union	false			
	Read Only	false			
	Static	false			
	Leaf	false			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015 12:59:11		
	Last Modified		01.07.2015 13:08:25		

GeneticCode

Name	Value
Description	Speicher die genetischen Code: Standard Vertebrate Mitochondrial
	 @author Abel Hodelin Hernandez

	@author Timur Horn @version 1.0			
Active	false			
Business Key Mutable	true			
Java Detail	N/A			
Business Model	false	false		
Visibility	public	public		
Leaf	false	false		
Root	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:03		
	Last Modified	01.07.2015 13:20:13		

String, code : int) : String					
codon					
Multiplicity	Unspecified				
Туре	String	String			
Direction	inout				
Java Detail	N/A	N/A			
Project Management	Name	Value			
	Author	her_hod			
	Create Date Time	01.07.2015 12:59:03			
	Last Modified	01.07.2015 13:08:25			
	-				
Direction					
Java Detail	N/A				
Project Management	Name	Value			
	Author	her_hod			
	Create Date Time	01.07.2015 12:59:03			
	Last Modified	01.07.2015 13:08:25			
Translation (mRNA zu Prot	ein)				
false					
1					
false					
true					
amino: Aminosäure					
false					
	codon Multiplicity Type Direction Java Detail Project Management code Multiplicity Type Direction Java Detail Project Management Translation (mRNA zu Prot false 1 false true amino: Aminosäure	Multiplicity Unspecified Type String Direction inout Java Detail N/A Project Management Name Author Create Date Time Last Modified Type int Direction inout Java Detail N/A Project Management Unspecified Type int Direction inout Java Detail N/A Project Management Name Author Create Date Time Last Modified Type Int Direction inout Java Detail N/A Project Management Name Author Create Date Time Last Modified Translation (mRNA zu Protein) false 1 false true amino: Aminosäure			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:03
	Last Modified	01.07.2015 13:08:25

Relationships

Relationships					
Unnamed Association					
From	Name	Value			
	End Model Element	■ Dn:	aGenerator		
	Provide Property Getter Method	false			
	Provide Property Setter Method	Setter false			
	Multiplicity	Unspe	Unspecified		
	Visibility	Unspe	cified		
	Aggregation Kind	None			
	Navigable	Naviga	ıble		
	Derived	false false false false false false			
	Derived Union				
	Read Only				
	Static				
	Leaf				
	Туре	■ Dna			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 13:08:10	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false	false			
Project Management	Name		Value		
	Author	Author		her_hod	
	Create Date Time	Create Date Time		01.07.2015 13:08:10	
	Last Modified	Last Modified		01.07.2015 13:20:13	

TestGeneCode

Name	Value
Active	false
Business Key Mutable	true
Business Model	false
Visibility	public
Leaf	false

Root	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 13:15:56	
	Last Modified	01.07.2015 13:20:13	

Operations					
public main (str : String)					
Parameters	str	str			
	Multiplicity	Unspe	Unspecified		
	Type Modifier	[]	0		
	Туре	String			
	Direction	inout			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 13:18:39	
		Last M	lodified	01.07.2015 13:20:13	
Leaf	false	false			
Ordered	false	false			
Unique	true				
Query	false				
Project Management	Name		Value		
	Author	Author		her_hod	
	Create Date Time		01.07.2015 13:16:56		
	Last Modified	Last Modified		01.07.2015 13:20:13	

GeneCode

Name	Value			
Active	false			
Business Key Mutable	true			
Java Detail	N/A			
Business Model	false			
Visibility	public	public		
Leaf	false	false		
Root	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:37		
	Last Modified	01.07.2015 13:08:25		

Attributes

public FILEEXTENTION : String				
Initial Value	".genecode"			
Туре	String			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:37
	Last Modified		01.07.2015	13:08:25

private name : String				
Stereotypes	Property			
Туре	String			
Allow Empty Name	false			
Getter	true	Setter		true
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:37
	Last Modified		01.07.2015	13:08:25

private alphabet : char			
Stereotypes	Property		
Type Modifier			
Туре	o char		
Allow Empty Name	false		
Getter	true	Setter	false

Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false	false		
Is ID	false	false		
Leaf	false	false		
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:37		
	Last Modified	01.07.2015 13:08:25		

private wordLength : int				
Туре	o int			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:37
	Last Modified		01.07.2015	13:08:25

private img : java.awt.image.BufferedImage				
Туре	java.awt.image.B	java.awt.image.BufferedImage		
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

private imgTooBig : boolean				
Туре	boolean			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time 01.07.2015 12:58:37			12:58:37
	Last Modified		01.07.2015	13:08:25

private smallestCell : int				
Туре	o int			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:37
	Last Modified		01.07.2015	13:08:25

private codons : java.util.Hashtable				
Template Type Bind Info	N/A			
Туре	java.util.Hashtable			

Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015	12:58:37
	Last Modified	01.07.2015	13:08:25

private complements : java.util.Hashtable				
Template Type Bind Info	N/A			
Туре	java.util.Hashtable			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:58:37
	Last Modified		01.07.2015	13:08:25

private reverseComplement : boolean				
Initial Value	false			
Туре	boolean			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			

Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name Value				
	Author her_hod				
	Create Date Time 01.07.2015 12:58:37				
	Last Modified	01.07.2015 13:08:25			

private colors : java.awt.Color					
Description	colors for created image	colors for created image			
Type Modifier	0				
Туре	java.awt.Color				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None			,	
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false	-			
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:58:37	
	Last Modified		01.07.2015	13:08:25	

private nextGeneCode : GeneCode				
Туре	GeneCode			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:38
	Last Modified	01.07.2015 13:08:25

public GeneCode ()					
Leaf	false				
Upper	1				
Ordered	false				
Unique	true	true			
Query	false	false			
Project Management	Name	Name Value			
	Author	her_hod			
	Create Date Time	01.07.2015 12:58:37			
	Last Modified	01.07.2015 13:08:25			

public GeneCode (name : String, alph : String, I : int)

Parameters	name						
	Multiplicity	Unspecified					
	Туре	String					
	Direction	inout					
	Java Detail	N/A					
	Project Management	Name	Value				
		Author	her_hod				
		Create Date Time	01.07.2015 12:58:37				
		Last Modified	01.07.2015 13:08:25				
	alah						
	alph Multiplicity	Unspecified					
	Туре	String					
	Direction	inout					
	Java Detail	N/A					
	Project Management	Name	Value				
	.,	Author	her_hod				
		Create Date Time	01.07.2015 12:58:37				
		Last Modified	01.07.2015 13:08:25				
		Multiplicity Unspecified					
	Туре	int int					
	Direction	inout					
	Java Detail	N/A					
	Project Management	Name	Value				
		Author	her_hod				
		Create Date Time	01.07.2015 12:58:37				
		Last Modified	01.07.2015 13:08:25				
Leaf	false						
Upper	1						
Ordered	false						
Unique	true	true					
Query	false						
Project Management	Name		Value				
	Author		her_hod				
	Create Date Time		01.07.2015 12:58:37				
	Last Modified	01.07.2015 1	01.07.2015 13:08:25				

Parameters	g	g			
	Multiplicity	Unspe	cified		
	Туре	☐ Gei	neCode		
	Direction	inout	ut		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:58:37	
		Last M		01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false				
Unique	true				
Query	false				
Project Management	Name Value				
	Author	Author		her_hod	
	Create Date Time 01.07.2015 12:5 Last Modified 01.07.2015 13:0			2:58:37	
				3:08:25	

private init (prefix : String, position : int) : void					
Parameters	prefix				
	Multiplicity	Unspecified			
	Туре	String			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 12:58:37		
		Last Modified	01.07.2015 13:08:25		
	position				
	Multiplicity	Unspecified			
	Туре	int int			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 12:58:37		
		Last Modified	01.07.2015 13:08:25		
Description	fill Hashtable rekursive				
Leaf	false				
Upper	1				

Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public setCodon (name : String, value : String) : boolean					
Parameters	name				
	Multiplicity	Unspe	cified		
	Туре	String	ng		
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:58:37	
		Last M	odified	01.07.2015 13:08:25	
	value	1			
	Multiplicity		Unspecified		
	Туре	String			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:58:37	
	Last Mo		odified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015 12:58:37		
	Last Modified		01.07.2015 13:	:08:25	

Parameters	name				
	Multiplicity	Unspe	cified		
	Туре	String			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author	•	her_hod	
		Create	Date Time	01.07.2015 12:58:37	
		Last M	lodified	01.07.2015 13:08:25	
	value	1			
	Multiplicity	Unspe	cified		
	Туре	String			
	Direction	inout			
	Java Detail N/A				
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:58:37	
		Last M	lodified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false				
Project Management	Name	Name		Value	
	Author		her_hod		
	Create Date Time		01.07.2015 12:58:37		
	Last Modified		01.07.2015 13	3:08:25	

public getComplement (letter :	public getComplement (letter : String) : String			
Parameters	letter			
	Multiplicity	Unspecified		
	Туре	String	String	
	Direction	inout		
	Java Detail	N/A	N/A	
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:37	
		Last Modified	01.07.2015 13:08:25	
Leaf	false			
Upper	1			
Ordered	false			

Unique	true		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

package SaveAs (FileName : String) : boolean					
Parameters	FileName	FileName			
	Multiplicity	Unspecified			
	Туре	String			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:58:37	
		Last M	lodified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false	false			
Unique	true				
Query	false				
Project Management	Name		Value		
	Author	Author		her_hod	
	Create Date Time	Create Date Time		01.07.2015 12:58:37	
	Last Modified	Last Modified		01.07.2015 13:08:25	

package ReadCode (fileName : String) : GeneCode				
Parameters	fileName			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	Java Detail	N/A		
	1	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:37	
		Last Modified	01.07.2015 13:08:25	
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:58:37
	Last Modified	01.07.2015 13:08:25

public getValue (codon : String	g) : String			
Parameters	codon			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name		Value
		Author		her_hod
		Create Date Time		01.07.2015 12:58:37
		Last M	odified	01.07.2015 13:08:25
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:37	
	Last Modified		01.07.2015 13	:08:25

public getSize () : int				
Leaf	false			
Upper	1			
Ordered	false	false		
Unique	true	true		
Query	false	false		
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:37		
	Last Modified	01.07.2015 13:08:25		

public getElements () : java.util.Enumeration		
Leaf	false	
Upper	1	
Template Type Bind Info	N/A	
Ordered	false	
Unique	true	

Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time 01.07.2015 12:		
	Last Modified	01.07.2015 13:08:25	

public toString () : String			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public clone () : GeneCod	е			
Leaf	false			
Upper	1			
Ordered	false			
Unique	true	true		
Query	false	false		
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:37		
	Last Modified	01.07.2015 13:08:25		

public getCodonLength () : int			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public getCodonKeyFromGraph (angle : double) : String

Parameters	angle	angle			
	Multiplicity	Unspec	cified		
	Туре	o dou	ble	ole	
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:58:37	
		Last M	odified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false				
Unique	true	true			
Query	false				
Project Management	Name Author Create Date Time		Value		
			her_hod		
			01.07.2015 12:58:37		
	Last Modified		01.07.2015 1	3:08:25	

public getCodeSun () : java.awt.image.BufferedImage				
Leaf	false	false		
Upper	1			
Ordered	false	false		
Unique	true			
Query	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:58:37		
	Last Modified	01.07.2015 13:08:25		

public markCodon (angle : double) : java.awt.image.BufferedImage				
Parameters	angle			
	Multiplicity	Unspecified		
	Туре	double		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:58:37	
		Last Modified	01.07.2015 13:08:25	
Description	TODO noch nicht fertig			
Leaf	false			

Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public getColor (index : int) : java.awt.Color				
Parameters	index			
	Multiplicity	Unspecified		
	Туре	o int	t	
	Direction	inout	t	
	Java Detail	N/A		
	Project Management	Name		Value
	<u> </u>	Author		her_hod
		Create Date Time		01.07.2015 12:58:37
	Last M		odified	01.07.2015 13:08:25
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:58:37	
	Last Modified 0		01.07.2015 13:08:25	

public setColor (index : int, color : java.awt.Color) : void

Parameters	index	index			
	Multiplicity	Unspecified			
	Туре	o int			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Tir	me 01.07.2015 12:58:37		
		Last Modified	01.07.2015 13:08:25		
	color				
	Multiplicity	Unspecified			
	Туре	java.awt.Color	awt.Color		
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Tir	me 01.07.2015 12:58:37		
		Last Modified	01.07.2015 13:08:25		
Leaf	false				
Upper	1				
Ordered	false	false			
Unique	true	true			
Query	false	false			
Project Management Name		Value	Value		
	Author	her_hoo	her_hod		
	Create Date Time	01.07.2	01.07.2015 12:58:37		
	Last Modified	01.07.2	01.07.2015 13:08:25		

public getColorsCount () : int			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:58:37	
	Last Modified	01.07.2015 13:08:25	

public getNextCode () : GeneCode	
Leaf	false

Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management				
Project Management	Name	Value		
Project Management	Name Author	Value her_hod		
Project Management				

public setNextCode (genc : GeneCode) : boolean						
Parameters	genc					
	Multiplicity	Unspecified				
	Туре	Ger	neCode			
	Direction	inout				
	Java Detail	N/A				
	Autho Create	Name		Value		
		Author		her_hod		
		Create Date Time		01.07.2015 12:58:37		
		Last M	odified	01.07.2015 13:08:25		
Leaf	false					
Upper	1					
Ordered	false					
Unique	true					
Query	false					
Project Management	Name		Value			
	Author		her_hod			
	Create Date Time		01.07.2015 12:58:37			
	Last Modified		01.07.2015 13:08:25			

Relationships

Unnamed Association

To (nextGeneCode)	Name	Value				
	End Model Element	■ Ge	eneCode			
	Representative Attribute	nextGe	extGeneCode			
	Provide Property Getter Method	false	false			
	Provide Property Setter Method	false				
	Multiplicity	Unspecified				
	Visibility	private	private			
	Aggregation Kind	None	None			
	Navigable	Naviga	Navigable			
	Derived	false	alse			
	Derived Union	false	false			
	Read Only	false	false			
	Static	false	false			
	Leaf	false				
	Туре	GeneCode				
	Project Management	Name		Value		
		Author		her_hod		
		Create Date Time		01.07.2015 12:58:38		
Abstract	false	false				
Leaf	false	false				
Visibility	Unspecified	Unspecified				
Derived	false	false				
Project Management	Name	me		Value		
	Author	uthor		her_hod		
	Create Date Time	Create Date Time		01.07.2015 12:58:38		
	Last Modified	Last Modified		01.07.2015 13:08:25		
Unnamed Association						

From	Name	Value			
	End Model Element	□ Ge	neticQuiz		
	Provide Property Getter Method	false	false		
	Provide Property Setter Method	false	false		
	Multiplicity	Unspe	cified		
	Visibility	Unspe	cified		
	Aggregation Kind	None			
	Navigable	Non N	avigable		
	Derived	false			
	Derived Union	false false			
	Read Only				
	Static	false			
	Leaf	false	lse		
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false	false			
Project Management	Name		Value		
	Author	Author		her_hod	
	Create Date Time	Create Date Time		01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25		3:08:25	
Unnamed Association					

From	Name	Value		
	End Model Element	≣ Ge	neticQuiz	
	Provide Property Getter Method	false	false	
	Provide Property Setter Method	false		
	Multiplicity	Unspe	cified	
	Visibility	Unspe	cified	
	Aggregation Kind	None		
	Navigable	Non Na	avigable	
	Derived	false		
	Derived Union	false false		
	Read Only			
	Static			
	Leaf	false		
	Project Management	Name Value		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name Value			
	Author		her_hod	
	Create Date Time		01.07.2015 12	:59:11
	Last Modified		01.07.2015 13	:08:25

From	Name	Value		
	End Model Element	≣ Ge	neticQuiz	
	Provide Property Getter Method	false	false	
	Provide Property Setter Method	false		
	Multiplicity	Unspe	cified	
	Visibility	Unspe	cified	
	Aggregation Kind	None		
	Navigable	Non Na	avigable	
	Derived	false		
	Derived Union	false false		
	Read Only			
	Static			
	Leaf	false		
	Project Management	Name Value		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name Value			
	Author		her_hod	
	Create Date Time		01.07.2015 12	:59:11
	Last Modified		01.07.2015 13	:08:25

From	Name	me Value		
	End Model Element	■ Ne	wGCDIalog	
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	Unspe	cified	
	Visibility	Unspe	cified	
	Aggregation Kind	None		
	Navigable	Non N	avigable	
	Derived	false		
	Derived Union	false false		
	Read Only			
	Static			
	Leaf	false		
	Project Management	Name Value		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:59:40
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	oject Management Name Value Author her_hod			
			her_hod	
	Create Date Time		01.07.2015 12	:59:40
	Last Modified		01.07.2015 13	:08:25

■ ConfigGeneCode

Name	Value			
Active	false			
Business Key Mutable	true			
Java Detail	N/A			
Business Model	false			
Visibility	public			
Leaf	false			
Root	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:57:50		
	Last Modified	01.07.2015 13:08:25		

Attributes

private serialVersionUID : Ion	g			
Initial Value	1L			
Туре	long			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

private contentPanel : javax.swing.JScrollPane					
Туре	javax.swing.JScrol	javax.swing.JScrollPane			
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:57:51	
	Last Modified		01.07.2015	13:08:25	

private table : javax.swing.JTable				
Туре	javax.swing.JTable			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			

Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

package gc : GeneCode					
Туре	GeneCode	GeneCode			
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:57:51	
	Last Modified		01.07.2015	13:08:25	

package okButton : javax.swing.JButton				
Туре	javax.swing.JButton			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

package gcname_in : java	x.swing.JTextField			
Туре	javax.swing.JTextl	Field		
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

package cancelButton : javax.swing.JButton				
Туре	javax.swing.JButton			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A	N/A		
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

package colorChooser : javax.swing.JColorChooser		
Type javax.swing.JColorChooser		
Allow Empty Name	false	

Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.201	5 12:57:51
	Last Modified	01.07.201	5 13:08:25

package colorFields : javax.swing.JLabel				
Type Modifier	[]			
Туре	javax.swing.JLabel			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

package complementsFields : javax.swing.JTextField			
Type Modifier	0		
Туре	javax.swing.JTextField		
Allow Empty Name	false	_	
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		

Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

package letterAddInfoFields : javax.swing.JPanel				
Type Modifier				
Туре	javax.swing.JPanel			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A	-		
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

package alphabetAddInfo	Area : javax.swing.JPane	l		
Туре	javax.swing.JPanel	javax.swing.JPanel		
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:57:51
	Last Modified		01.07.2015	13:08:25

Operations

public ConfigGeneCode ()				
Description	Create the dialog.			
Leaf	false	false		
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:57:51		
	Last Modified	01.07.2015 13:08:25		

package setGeneCode (gc : GeneCode) : boolean					
Parameters	gc				
	Multiplicity	Unspecified			
	Туре	GeneCode			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:57:51	
	Last M		lodified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false	false			
Unique	true				
Query	false				
Project Management	Name		Value		
	Author	Author		her_hod	
	Create Date Time		01.07.2015 12:57:51		
	Last Modified	Last Modified		01.07.2015 13:08:25	

private createMenuBar () : void		
Leaf	false	
Upper	1	
Ordered	false	
Unique	true	
Query	false	

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private saveCodeFile (f : Strin	g) : boolean			
Parameters	f			
	Multiplicity	Unspecified		
	Туре	String		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:57:51
		Last M	odified	01.07.2015 13:08:25
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name Value			
	Author		her_hod	
	Create Date Time		01.07.2015 12:57:51	
	Last Modified		01.07.2015 13:08:25	

private loadGeneCode (file : String) : GeneCode			
Parameters	file		
	Multiplicity	Unspecified	
	Туре	String	
	Direction	inout	
	Java Detail	N/A	
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private createNewGeneCode () : void			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name Value		
	Author her_hod		
	Create Date Time 01.07.2015 12:57:51		
	Last Modified	01.07.2015 13:08:25	

private chooseFile () : String				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name Value			
	Author her_hod			
	Create Date Time	01.07.2015 12:57:51		
	Last Modified	01.07.2015 13:08:25		

public actionPerformed (ae : java.awt.event.ActionEvent) : void				
Parameters	ae			
	Multiplicity	Unspecified		
	Туре	java.awt.event.ActionEvent		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name	Value	
		Author	her_hod	
		Create Date Time	01.07.2015 12:57:51	
		Last Modified	01.07.2015 13:08:25	
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

private readTable () : void				
Description	read table in the GeneCode Has	read table in the GeneCode Hashtable		
Leaf	false			
Upper	1			
Ordered	false	false		
Unique	true	true		
Query	false	false		
Project Management	Name	Name Value		
	Author	Author her_hod		
	Create Date Time	Create Date Time 01.07.2015 12:57:51		
	Last Modified	01.07.2015 13:08:25		

public getGeneCode () : GeneCode				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true	true		
Query	false	false		
Project Management	Name	Name Value		
	Author	Author her_hod		
	Create Date Time	Create Date Time 01.07.2015 12:57:51		
	Last Modified	01.07.2015 13:08:25		

private chooseColor (index : int) : void			
Parameters	index		
	Multiplicity	Unspecified	
	Туре	int int	
	Direction	inout N/A	
	Java Detail		
	Project Management	Name	Value
		Author	her_hod
		Create Date Time	01.07.2015 12:57:51
		Last Modified	01.07.2015 13:08:25
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		

Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:57:51	
	Last Modified	01.07.2015 13:08:25	

public mouseClicked (e : java.awt.event.MouseEvent) : void					
Parameters	е				
	Multiplicity	Unspecified			
	Туре	java.av	awt.event.MouseEvent		
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:57:51	
		Last M	odified	01.07.2015 13:08:25	
Leaf	false	false			
Upper	1				
Ordered	false				
Unique	true	true			
Query	false				
Project Management	Name Author		Value		
			her_hod		
	Create Date Time	01.07.2015 12:57:51		:57:51	
	Last Modified	Last Modified		01.07.2015 13:08:25	

public mousePressed	(e : java.awt.event.MouseEvent) :	void			
Parameters	е	e			
	Multiplicity	Unspecified			
	Туре	java.awt.event.Mous	eEvent		
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 12:57:51		
		Last Modified	01.07.2015 13:08:25		
Leaf	false				
Upper	1	1			
Ordered	false	false			
Unique	true				
Query	false				

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mouseReleased (e	: java.awt.event.MouseEvent) :	: void			
Parameters	е				
	Multiplicity	Unspecified			
	Туре	java.av	java.awt.event.MouseEvent		
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:57:51	
		Last M	odified	01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false				
Unique	true				
Query	false	false			
Project Management	Name	Name			
	Author	Author		her_hod	
	Create Date Time		01.07.2015 12:57:51		
	Last Modified	Last Modified		01.07.2015 13:08:25	

public mouseEntered (e : java.	oublic mouseEntered (e : java.awt.event.MouseEvent) : void				
Parameters	e				
	Multiplicity	Unspecified			
	Туре	java.awt.event.MouseEvent			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 12:57:51		
		Last Modified	01.07.2015 13:08:25		
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false				

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:57:51
	Last Modified	01.07.2015 13:08:25

public mouseExited (e : java.awt.event.MouseEvent) : void					
Parameters	e				
	Multiplicity	Unspecified			
	Туре	java.av	ava.awt.event.MouseEvent		
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:57:51	
		Last Modified		01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false				
Project Management	Name Author		Value		
			her_hod		
	Create Date Time		01.07.2015 12:57:51		
	Last Modified		01.07.2015 13:08:25		

GeneticQuiz

Name	Value			
Active	false			
Business Key Mutable	true			
Java Detail	N/A			
Business Model	false			
Visibility	public			
Leaf	false			
Root	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

Attributes

package codeText : javax.swing.JTextPane

Туре	javax.swing.JTextPane				
Allow Empty Name	false	false			
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false	false			
Read Only	false	false			
Is ID	false	false			
Leaf	false	false			
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package status : javax.swing.JLabel					
Туре	javax.swing.JLabel				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package rightTranslation : String				
Initial Value	1111			
Туре	String			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None	,		

Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

package I : javax.swing.JComboBox					
Template Type Bind Info	N/A	N/A			
Туре	javax.swing.JComboE	Зох			
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package codeSelectionCB : j	avax.swing.JCo	mboBox		
Template Type Bind Info	N/A			
Туре	javax.swing.J	ComboBox		
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

package complCB : javax.swing.JCheckBox					
Туре	javax.swing.JChed	kBox			
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time	Create Date Time 01.07.2015 12:59:11			
	Last Modified		01.07.2015	13:08:25	

package showImageCB:	javax.swing.JCheckBox				
Туре	javax.swing.JCheckE	Box			
Allow Empty Name	false			-	
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time	Create Date Time 01.07.2015 12:59:11			
	Last Modified		01.07.2015	13:08:25	

package translText : javax.swing.JTextPane				
Туре	javax.swing.JTextPane			
Allow Empty Name	false			

Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		
Read Only	false		
Is ID	false		
Leaf	false	_	
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015	12:59:11
	Last Modified	01.07.2015	13:08:25

package translTextSolve : javax.swing.JTextPane					
Туре	javax.swing.JTextPane				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false	,			
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package configGC : javax.swing.JButton					
Туре	javax.swing.JBu	tton			
Allow Empty Name	false				
Getter	false	Setter	false		
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				

Leaf	false			
Project Management	Name Value			
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

package lengthList : Intege	er				
Initial Value	new Integer []{5,10,1	new Integer []{5,10,15,20,25,30}			
Type Modifier	[]				
Туре	Integer				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package codoninfo : javax	k.swing.JTextField			
Туре	javax.swing.JTextF	Field		
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			-
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:59:11
	Last Modified		01.07.2015	13:08:25

package imagePanel : javax.swing.JPanel					
Туре	javax.swing.JPanel	javax.swing.JPanel			
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package subCodesPanel : javax.swing.JPanel					
Description	Panel, die kleinen Bilder	der nextCode	s zeigt		
Туре	javax.swing.JPanel				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified	Unspecified			
Java Detail	N/A	N/A			
Aggregation	None	None			
Derived Union	false	false			
Read Only	false	false			
Is ID	false				
Leaf	false	false			
Project Management	Name Value				
	Author her_hod				
	Create Date Time 01.07.2015 12:59:11				
	Last Modified		01.07.2015	13:08:25	

package imageCodeSun : ImagePanel						
Туре	ImagePanel					
Allow Empty Name	false	false				
Getter	false	Setter	false			
Derived	false					
Multiplicity	Unspecified					
Java Detail	N/A					

Aggregation	None					
Derived Union	false					
Read Only	false					
Is ID	false	false				
Leaf	false	false				
Project Management	Name	Value				
	Author	her_hod				
	Create Date Time	01.07.2015 12:59:11				
	Last Modified	01.07.2015 13:08:25				

package imageCodeSunSubs :	javax.swing.JButton			
Type Modifier				
Туре	javax.swing.JButton			
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:59:11
	Last Modified		01.07.2015	13:08:25

package subImagesButtons : java.util.ArrayList					
Template Type Bind Info	N/A				
Туре	java.util.ArrayList				
Allow Empty Name	false				
Getter	false	Setter	false		
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

package newCodechosen : boolean					
Туре	boolean				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false	false			
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time 01.07.2015 12:59:11			12:59:11	
	Last Modified		01.07.2015	13:08:25	

private dnaGen : DnaGenerator					
Initial Value	new DnaGenerator()				
Туре	DnaGenerator				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified				
Java Detail	N/A				
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package gencodes : GeneCode	
Туре	GeneCode

Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	*			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015	12:59:11
	Last Modified		01.07.2015	13:08:25

package currentGC : GeneCode					
Description	aktueller Gene co	de			
Туре	GeneCode				
Allow Empty Name	false				
Getter	false	Setter		false	
Derived	false				
Multiplicity	Unspecified	Unspecified			
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015	12:59:11	
	Last Modified		01.07.2015	13:08:25	

package choosenGC : GeneCode			
Туре	GeneCode		
Allow Empty Name	false		
Getter	false	Setter	false
Derived	false		
Multiplicity	Unspecified		
Java Detail	N/A		
Aggregation	None		
Derived Union	false		.,

Read Only	false	
Is ID	false	
Leaf	false	
Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:11
	Last Modified	01.07.2015 13:08:25

Operations

public GeneticQuiz ()						
Leaf	false					
Upper	1					
Ordered	false					
Unique	true	true				
Query	false	false				
Project Management	Name	Name Value				
	Author	Author her_hod				
	Create Date Time 01.07.2015 12:59:11					
	Last Modified	01.07.2015 13:08:25				

private fillComboBox () : v	oid					
Leaf	false					
Upper	1					
Ordered	false					
Unique	true	true				
Query	false					
Project Management	Name	Value				
	Author	her_hod				
	Create Date Time	Create Date Time 01.07.2015 12:59:11				
	Last Modified	01.07.2015 13:08:25				

protected configurateGeneCode () : void				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

protected createStringToTranslate () : void					
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false	false			
Project Management	Name	Value			
	Author	her_hod			
	Create Date Time 01.07.2015 12:59:11				
	Last Modified	01.07.2015 13:08:25			

protected evaluate () : void				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name Value			
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

private createStandardCodes () : void				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name	Value		
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:11		
	Last Modified	01.07.2015 13:08:25		

private readCodeFiles (dir : java.io.File) : void

Parameters	dir				
	Multiplicity	Unspe	Unspecified java.io.File inout		
	Туре	java.io			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
		Last Modified		01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true				
Query	false				
Project Management	Name Value				
	Author	her_hod			
	Create Date Time		01.07.2015 12	2:59:11	
	Last Modified	dified 01.07.2015 13:08:25			

public mouseClicked (e : java.awt.event.MouseEvent) : void					
Parameters	е	e			
	Multiplicity	Unspe	Unspecified		
	Туре	java.awt.event.MouseEvent			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:59:11	
		Last M	lodified	01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true				
Query	false	false			
Project Management	Name Value				
	Author		her_hod		
	Create Date Time		01.07.2015 12:59:11		
	Last Modified		01.07.2015 1	3:08:25	

Parameters	е	e			
	Multiplicity	Unspeci	Unspecified		
	Туре	java.awt	java.awt.event.MouseEvent		
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create D	Date Time	01.07.2015 12:59:11	
		Last Mo	dified	01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false				
Unique	true				
Query	false				
Project Management	Name	me Value			
	Author	7 - 11			
	Create Date Time			2:59:11	
	01.07.2015 13:08:25				

public mouseReleased (e : java.awt.event.MouseEvent) : void					
Parameters	e e				
	Multiplicity	Unspecified			
	Туре	java.awt.event.MouseEvent			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
	Create Date Time		Date Time	01.07.2015 12:59:11	
		Last M	lodified	01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false	false			
Unique	true				
Query	false				
Project Management	Name Value				
	Author	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11		
	Last Modified		01.07.2015 13	:08:25	

Parameters	е	e			
	Multiplicity	Unspe	Unspecified		
	Туре	java.av	java.awt.event.MouseEvent		
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
		Last M		01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true	true			
Query	false	false			
Project Management	Name	Name Value			
	Author		her_hod		
	Create Date Time	01.07.2015 12		2:59:11	
	Last Modified 01.07.2015 1		5 13:08:25		

public mouseExited (e : java.awt.event.MouseEvent) : void					
Parameters	е	e			
	Multiplicity	Unspecified			
	Туре	java.awt.event.MouseEvent			
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
	1 F	Author		her_hod	
		Create Date Time		01.07.2015 12:59:11	
		Last Modified		01.07.2015 13:08:25	
Leaf	false				
Upper	1				
Ordered	false				
Unique	true				
Query	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015 12:59:11		
	Last Modified		01.07.2015 13:08:25		

Parameters	geneCode				
	Multiplicity	Unspe	cified		
	Туре	☐ Gei	GeneCode		
	Direction	inout	inout		
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
		Last Mo		01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true	true			
Query	false	false			
Project Management	Name Value Author her_hod Create Date Time 01.07.2015 12:59:11				
			her_hod		
			01.07.2015 12:59:11		
	Last Modified	Last Modified		01.07.2015 13:08:25	

public itemStateChanged (e : java.awt.event.ltemEvent) : void						
Parameters	е	e				
	Multiplicity	Unspecified				
	Туре	java.awt.event.ItemEvent				
	Direction	inout				
	Java Detail	N/A				
	Project Management	Name		Value		
		Author		her_hod		
		Create	Date Time	01.07.2015 12:59:11		
		Last Modifi		01.07.2015 13:08:25		
Leaf	false	false				
Upper	1	1				
Ordered	false	false				
Unique	true					
Query	false	false				
Project Management	Name	Name Value				
	Author		her_hod			
	Create Date Time	Create Date Time		01.07.2015 12:59:11		
	Last Modified	Last Modified		01.07.2015 13:08:25		

private updateView () : void	
Leaf	false
Upper	1

Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:11	
	Last Modified	01.07.2015 13:08:25	

public actionPerformed (e : java.awt.event.ActionEvent) : void				
Parameters	e			
	Multiplicity	Unspecified		
	Туре	java.awt.event.ActionEvent		
	Direction	inout		
	Java Detail	N/A		
	Project Management	Name		Value
	l H	Author		her_hod
		Create Date Time		01.07.2015 12:59:11
	Las		odified	01.07.2015 13:08:25
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11	
	Last Modified		01.07.2015 13	:08:25

Relationships

To (gencodes)	Name	Value		
	End Model Element	■ Ge	neCode	
	Representative Attribute	genco	des	
	Provide Property Getter Method	false		
	Provide Property Setter Method	false		
	Multiplicity	*		
	Visibility	packag	је	
	Aggregation Kind	None		
	Navigable	Naviga	ble	
	Derived false			
	Derived Union	false		
	Read Only	false		
	Static	false		
	Leaf	false		
	Туре	GeneCode		
	Project Management	Name		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:59:11
Abstract	false			
Leaf	false			
Visibility	Unspecified			
Derived	false			
Project Management	Name Value			
	Author		her_hod	
	Create Date Time		01.07.2015 12:59:11	
	Last Modified 01.07.2015 13:08:25		:08:25	
Unnamed Association				

To (currentGC)	Name	Value				
	End Model Element	■ Ge	neCode			
	Description	aktuell	ktueller Gene code			
	Representative Attribute	curren	currentGC			
	Provide Property Getter Method	false				
	Provide Property Setter Method	false				
	Multiplicity	Unspe	cified			
	Visibility	packag	је			
	Aggregation Kind	None				
	Navigable	Naviga	ble			
	Derived false Derived Union false					
	Read Only	false				
	Static	false				
	Leaf	false				
	Туре	■ Ge	neCode			
	Project Management	Name		Value		
		Author		her_hod		
		Create	Date Time	01.07.2015 12:59:11		
Abstract	false					
Leaf	false					
Visibility	Unspecified					
Derived	false					
Project Management	Name	ame Value				
	Author		her_hod			
	Create Date Time		01.07.2015 12:59:11			
	Last Modified		01.07.2015 13:08:25			

To (dnaGen)	Name	Value			
	End Model Element	■ Dna	aGenerator		
	Representative Attribute	dnaGen			
	Provide Property Getter Method	false			
	Provide Property Setter Method	false			
	Multiplicity	Unspe	cified		
	Visibility	private			
	Aggregation Kind	None			
	Navigable	Naviga	ıble		
	Derived	false			
	Default Value	new DnaGenerator()			
	Derived Union	false			
	Read Only	false			
	Static	false			
	Leaf	false			
	Туре	■ Dna	aGenerator		
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:11	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				
Project Management	Name Value				
	Author		her_hod		
	Create Date Time		01.07.2015 12:59:11		
	Last Modified	Last Modified		01.07.2015 13:08:25	

To (choosenGC)	Name	Value			
	End Model Element	Ge	neCode		
	Representative Attribute	choose	enGC		
	Provide Property Getter Method	false	se		
	Provide Property Setter Method	false			
	Multiplicity	Unspe	cified		
	Visibility	packaç	је		
	Aggregation Kind	None			
	Navigable	Naviga	ble		
	Derived	false			
	Derived Union	false			
	Read Only	false			
	Static	false	false		
	Leaf	false			
	Туре	■ Ge	GeneCode		
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time		01.07.2015 12:59:11	
Abstract	false				
Leaf	false				
Visibility	Unspecified				
Derived	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015 12:59:11		
	Last Modified		01.07.2015 13:08:25		

■ ImagePanel

Name	Value
Active	false
Business Key Mutable	true
Java Detail	N/A
Business Model	false
Visibility	package
Leaf	false
Root	false

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:30
	Last Modified	01.07.2015 13:08:25

Attributes

private img : java.awt.image.BufferedImage					
Initial Value	null	null			
Туре	java.awt.image.Buffe	eredImage			
Allow Empty Name	false				
Getter	false	Setter	fals	se	
Derived	false				
Multiplicity	Unspecified	Unspecified			
Java Detail	N/A	N/A			
Aggregation	None				
Derived Union	false				
Read Only	false				
Is ID	false				
Leaf	false				
Project Management	Name		Value		
	Author		her_hod		
	Create Date Time		01.07.2015 12:5	59:30	
	Last Modified		01.07.2015 13:0	08:25	

Operations

public ImagePanel ()					
Leaf	false	false			
Upper	1				
Ordered	false				
Unique	true	true			
Query	false	false			
Project Management	Name Value				
	Author her_hod				
	Create Date Time 01.07.2015 12:59:30				
	Last Modified	01.07.2015 13:08:25			

public ImagePanel (i : java.awt.image.BufferedImage)

Parameters	i	i			
	Multiplicity	Unspec	specified		
	Туре	java.av	vt.image.Buffer	redImage	
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create Date Time Last Modified		01.07.2015 12:59:30	
				01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true				
Query	false	false			
Project Management	Name	Name			
	Create Date Time 01.0		her_hod		
			01.07.2015 12:59:30		
			01.07.2015 1	01.07.2015 13:08:25	

public setImage (bi : java.awt.image.BufferedImage) : void				
Parameters	bi	bi		
	Multiplicity	Unspecified		
	Туре	java.av	java.awt.image.BufferedImage	
	Direction	inout	inout	
	Java Detail	N/A		
	Project Management	Name		Value
		Author		her_hod
		Create	Date Time	01.07.2015 12:59:30
		Last Mo		01.07.2015 13:08:25
Leaf	false	false		
Upper	1	1		
Ordered	false			
Unique	true			
Query	false	false		
Project Management	Name	Name		
			her_hod	
			01.07.2015 12	2:59:30
	Last Modified 01.07.2015 13:08:			3:08:25

Parameters	g	g			
	Multiplicity	Unspec	ecified		
	Туре	java.av	vt.Graphics		
	Direction	inout			
	Java Detail	N/A			
	Project Management	Name		Value	
		Author		her_hod	
		Create	Date Time	01.07.2015 12:59:30	
		Last Mo		01.07.2015 13:08:25	
Leaf	false	false			
Upper	1	1			
Ordered	false	false			
Unique	true				
Query	false	false			
Project Management	Name	Name Va Author he			
	Author				
	Create Date Time 01.07.2015 12:59		2:59:30		
	Last Modified 01.07.20		01.07.2015 1	1.07.2015 13:08:25	

■ NewGCDIalog

Name	Value			
Active	false			
Business Key Mutable	true			
Java Detail	N/A			
Business Model	false			
Visibility	public			
Leaf	false			
Root	false			
Project Management	Name	Value		
	Author her_hod			
	Create Date Time 01.07.2015 12:59:40			
	Last Modified	01.07.2015 13:08:25		

Attributes

package at : javax.swing.JTextField					
Туре	javax.swing.JT	javax.swing.JTextField			
Allow Empty Name	false	false			
Getter	false	Setter	false		
Derived	false	false			
Multiplicity	Unspecified				
Java Detail	N/A				

Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name Value			
	Author her_hod			
	Create Date Time 01.07.2015 12:59:40			
	Last Modified	01.07.2015 13:08:25		

package It : javax.swing.JTextField				
Туре	javax.swing.JTextFiel	javax.swing.JTextField		
Allow Empty Name	false			
Getter	false	Setter		false
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			
Project Management	Name		Value	
	Author		her_hod	
	Create Date Time	Create Date Time 01.07.2015 12:59:40		12:59:40
	Last Modified		01.07.2015	13:08:25

package gc : GeneCode				
Туре	GeneCode			
Allow Empty Name	false			
Getter	false	Setter	false	
Derived	false			
Multiplicity	Unspecified			
Java Detail	N/A			
Aggregation	None			
Derived Union	false			
Read Only	false			
Is ID	false			
Leaf	false			

Project Management	Name	Value
	Author	her_hod
	Create Date Time	01.07.2015 12:59:40
	Last Modified	01.07.2015 13:08:25

Operations

public NewGCDIalog ()				
Leaf	false			
Upper	1			
Ordered	false			
Unique	true			
Query	false			
Project Management	Name Value			
	Author	her_hod		
	Create Date Time	01.07.2015 12:59:40		
	Last Modified 01.07.2015 13:08:25			

private createLabel () : void			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time 01.07.2015 12:59:40		
Last Modified 01.07.2015 13:08:25			

private createGC () : void			
Leaf	false		
Upper	1		
Ordered	false		
Unique	true		
Query	false		
Project Management	Name Value		
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:40	
	Last Modified 01.07.2015 13:08:25		

public getResult () : GeneCode	
Leaf	false
Upper	1

Ordered	false		
Unique	true		
Query	false		
Project Management	Name	Value	
	Author	her_hod	
	Create Date Time	01.07.2015 12:59:40	
	Last Modified	01.07.2015 13:08:25	

Relationships

Unnamed Association					
To (gc)	Name	Value			
	End Model Element	GeneCode	GeneCode		
	Representative Attribute	gc			
	Provide Property Getter Method	false	se		
	Provide Property Setter Method	false	false		
	Multiplicity	Unspecified	ecified		
	Visibility	package	ge		
	Aggregation Kind	None			
	Navigable	Navigable	ble		
	Derived	false			
	Derived Union	false	se		
	Read Only	false	ralse		
	Static	false	se		
	Leaf	false			
	Туре	GeneCode			
	Project Management	Name	Value		
		Author	her_hod		
		Create Date Time	01.07.2015 12:59:40		
Abstract	false				
Leaf	false				
Visibility	Unspecified	Unspecified			
Derived	false				
Project Management	Name	Value	Value		
	Author	her_hod	her_hod		
	Create Date Time	01.07.201	01.07.2015 12:59:40		
	Last Modified	01.07.201	01.07.2015 13:08:25		