EasyBbk Documentation:

data_center API

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Version: 1.0
Date: 2014 / 10 / 5

Introduction

This is a documentation auto generated by doxygen V1.8.8 about the package "data_center" in the software "Easy BBK". The documentation introduces all the source files in the package "data_center" and extract the annotations in the source code into it, which may provide some help for the usage and further development of "data_center".

"Easy BBK" is a trial to provide a standardized, visualized and user friendly access to bio-brick system by simplify and interassociate the searching, comparing, designing and uploading of bio-bricks. These four main functions constitute the "Easy BBK" client-side which is realized by pure java and supported by a remote server through the internet.

"data_center" is the connector between the GUI and the remote server, it connect to the online database and program in server, as well as downloading, storing and providing the data to the GUI part of "Easy BBK". Having access to the source code or .jar file of the "data_center", one can use most of the main functions of "Easy BBK" about searching, comparing and uploading through the API provided.

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Class List
Here are the classes, structs, unions and interfaces with brief descriptions:

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File Index

File List

Here is a list of all files with brief descriptions:

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Namespace Documentation

Package data_center

Classes

class [BbkDetail](#)
class [BbkOutline](#)
class [BbkProperties](#)
class [BbkType](#)
class [BbkUpload](#)
class [BlastingSearcher](#)
class [CompareCenter](#)
class [DatabaseConnector](#)
class [DataCenter](#)
class [DBConsts](#)
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class **DetailPageCenter**
class [HistoryList< T >](#)
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class [SketchCenter](#)
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Class Documentation

data_center.BbkType.Sketch.BackBone Class Reference

Static Public Attributes

static final int [LINEAR](#) = 1
static final int [CIRCULAR](#) = 2

Detailed Description

Definition at line 68 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.BackBone.CIRCULAR = 2`[static]`

Definition at line 71 of file BbkType.java.

final int data_center.BbkType.Sketch.BackBone.LINEAR = 1`[static]`

Definition at line 70 of file BbkType.java.

The documentation for this class was generated from the following file:

[BbkType.java](#)

data_center.SketchComponent.BackBone Class Reference

Inheritance diagram for data_center.SketchComponent.BackBone:
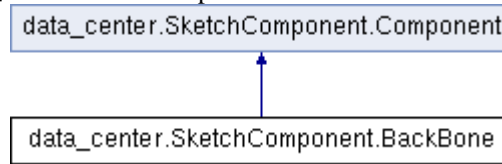
Public Member Functions

BackBone (int theID, Point pos, int length)
BackBone (int theID, Point pos, int length, ArrayList< Integer > childIDList)
BackBone toSubclass ()
Point getCenter ()
void setCenter (Point pos)
Double getSize ()
void setSize (double length)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
String getString ()
void setString (String str)
Font getFont ()
void setFont (Font font)
Color getColor ()
void setColor (Color color)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)

Public Attributes

Point center
int length
ArrayList< Integer > bbkChildren
int ID
String primaryType

Detailed Description

Definition at line 297 of file SketchComponent.java.

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Constructor & Destructor Documentation

data_center.SketchComponent.BackBone.BackBone (int *theID*, Point *pos*, int *length*)

Definition at line 303 of file SketchComponent.java.

data_center.SketchComponent.BackBone.BackBone (int *theID*, Point *pos*, int *length*, ArrayList< Integer > *childIDList*)

Definition at line 311 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.BackBone.display ()

Definition at line 347 of file SketchComponent.java.

Point data_center.SketchComponent.BackBone.getCenter ()

Definition at line 324 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.BackBone.getChildren ()

Definition at line 340 of file SketchComponent.java.

Color data_center.SketchComponent.Component.getColor ()`[inherited]`

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Definition at line 71 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()`[inherited]`

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()`[inherited]`

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.Component.getSecondaryType ()`[inherited]`

Definition at line 48 of file SketchComponent.java.

Double data_center.SketchComponent.BackBone.getSize ()

Definition at line 332 of file SketchComponent.java.

String data_center.SketchComponent.Component.getString ()`[inherited]`
text for [Label](), and bbkName for [BioBrick]()

Definition at line 55 of file SketchComponent.java.

void data_center.SketchComponent.BackBone.setCenter (Point *pos*)

Definition at line 328 of file SketchComponent.java.

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void data_center.SketchComponent.BackBone.setChildren (ArrayList< Integer > *children*)

Definition at line 344 of file SketchComponent.java.

void data_center.SketchComponent.Component.setColor (Color *color*)`[inherited]`

Definition at line 74 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)`[inherited]`

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)`[inherited]`

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSecondaryType (Integer *type*)`[inherited]`

Secondary type is defined in BbkType.Sketch

Definition at line 52 of file SketchComponent.java.

void data_center.SketchComponent.BackBone.setSize (double *length*)

Definition at line 336 of file SketchComponent.java.

void data_center.SketchComponent.Component.setString (String *str*)[inherited]

text for [Label](), and bbkName for [BioBrick]()

Definition at line 59 of file SketchComponent.java.

[BackBone]() data_center.SketchComponent.Component.toBackBone ()[inherited]

Definition at line 35 of file SketchComponent.java.

[BioBrick]() data_center.SketchComponent.Component.toBioBrick ()[inherited]

Definition at line 29 of file SketchComponent.java.

[BioVector]() data_center.SketchComponent.Component.toBioVictor ()[inherited]

Definition at line 41 of file SketchComponent.java.

[Label]() data_center.SketchComponent.Component.toLabel ()[inherited]

Definition at line 26 of file SketchComponent.java.

[Protein]() data_center.SketchComponent.Component.toProtein ()[inherited]

Definition at line 32 of file SketchComponent.java.

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[Relation](#) data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

[BackBone](#) data_center.SketchComponent.BackBone.toSubclass ()

Definition at line 320 of file SketchComponent.java.

Member Data Documentation

ArrayList<Integer> data_center.SketchComponent.BackBone.bbkChildren

Definition at line 301 of file SketchComponent.java.

Point data_center.SketchComponent.BackBone.center

Definition at line 299 of file SketchComponent.java.

int data_center.SketchComponent.Component.ID`[inherited]`

Definition at line 12 of file SketchComponent.java.

int data_center.SketchComponent.BackBone.length

Definition at line 300 of file SketchComponent.java.

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String data_center.SketchComponent.Component.primaryType `[inherited]`

Definition at line 13 of file SketchComponent.java.

The documentation for this class was generated from the following file:

SketchComponent.java

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data_center.BbkDetail Class Reference
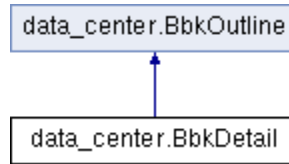
Inheritance diagram for data_center.BbkDetail:

Classes

class [Category](#)
class [DeepSubpart](#)
class [Feature](#)
class [Parameter](#)
class [SpecifiedSubpart](#)
class [SpecifiedSubscar](#)
class [Twin](#)

Public Member Functions

[BbkDetail](#) ()
int [getScore](#) ()
int [getScore](#) (double status_weight, double quality_weight, double feedbacks_weight, double publication_weight)
void [display](#) ()

Public Attributes

ArrayList< [Category](#) > [categories](#) = new ArrayList<[Category](#)>()
ArrayList< [DeepSubpart](#) > [deepSubparts](#) = new ArrayList<[DeepSubpart](#)>()
ArrayList< [Feature](#) > [features](#) = new ArrayList<[Feature](#)>()
ArrayList< [Parameter](#) > [parameters](#) = new ArrayList<[Parameter](#)>()
ArrayList< [SpecifiedSubpart](#) > [specifiedSubparts](#) = new ArrayList<[SpecifiedSubpart](#)>()
ArrayList< [SpecifiedSubscar](#) > [specifiedSubscars](#) = new ArrayList<[SpecifiedSubscar](#)>()
ArrayList< [Twin](#) > [twins](#) = new ArrayList<[Twin](#)>()
String [name](#)
String [type](#)
String [author](#)
String [enterDate](#)
String [shortDesc](#)
String [url](#)
[Rating](#) [rating](#) = null
[Blasting](#) [blasting](#) = null
String [ID](#)
String [shortName](#)
String [releaseStatus](#)
String [sampleStatus](#)
String [results](#)
String [nickname](#)
String [part_rating](#)
String [sequence](#)
String [samples](#)
String [references](#)
String [groups](#)
String [DNA_status](#)
String [groupFavorite](#)

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Detailed Description

The class used to store the data in the detail page. All of the data are fetched from EasyBbk database and stored as Strings.

Definition at line 9 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.BbkDetail ()

Definition at line 20 of file BbkDetail.java.

Member Function Documentation

void data_center.BbkOutline.display ()`[inherited]`

Print main attributes in cmd for testing.

Definition at line 59 of file BbkOutline.java.

int data_center.BbkOutline.getScore ()`[inherited]`

Score at default weight.

Definition at line 45 of file BbkOutline.java.

int data_center.BbkOutline.getScore (double *status_weight*, double *quality_weight*, double *feedbacks_weight*, double *publication_weight*)`[inherited]`

Score at custom weight.

Definition at line 51 of file BbkOutline.java.

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Member Data Documentation

String data_center.BbkOutline.author`[inherited]`

Definition at line 14 of file BbkOutline.java.

Blasting data_center.BbkOutline.blasting = null`[inherited]`

Definition at line 20 of file BbkOutline.java.

ArrayList<Category> data_center.BbkDetail.categories = new ArrayList<Category>()

Definition at line 11 of file BbkDetail.java.

ArrayList<DeepSubpart> data_center.BbkDetail.deepSubparts = new ArrayList<DeepSubpart>()

Definition at line 12 of file BbkDetail.java.

String data_center.BbkOutline.DNA_status`[inherited]`

Definition at line 33 of file BbkOutline.java.

String data_center.BbkOutline.enterDate`[inherited]`

Definition at line 15 of file BbkOutline.java.

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ArrayList<[Feature](#)> data_center.BbkDetail.features = new ArrayList<[Feature](#)>()

       Definition at line 13 of file BbkDetail.java.

String data_center.BbkOutline.groupFavorite`[inherited]`

       Definition at line 34 of file BbkOutline.java.

String data_center.BbkOutline.groups`[inherited]`

       Definition at line 32 of file BbkOutline.java.

String data_center.BbkOutline.ID`[inherited]`

       Definition at line 22 of file BbkOutline.java.

String data_center.BbkOutline.name`[inherited]`

       Definition at line 12 of file BbkOutline.java.

String data_center.BbkOutline.nickname`[inherited]`

       Definition at line 27 of file BbkOutline.java.

ArrayList<[Parameter](#)> data_center.BbkDetail.parameters = new ArrayList<[Parameter](#)>()

Definition at line 14 of file BbkDetail.java.

String data_center.BbkOutline.part_rating`[inherited]`

Definition at line 28 of file BbkOutline.java.

[Rating](#) data_center.BbkOutline.rating = null`[inherited]`

Definition at line 19 of file BbkOutline.java.

String data_center.BbkOutline.references`[inherited]`

Definition at line 31 of file BbkOutline.java.

String data_center.BbkOutline.releaseStatus`[inherited]`

Definition at line 24 of file BbkOutline.java.

String data_center.BbkOutline.results`[inherited]`

Definition at line 26 of file BbkOutline.java.

String data_center.BbkOutline.samples `[inherited]`

Definition at line 30 of file BbkOutline.java.

String data_center.BbkOutline.sampleStatus `[inherited]`

Definition at line 25 of file BbkOutline.java.

String data_center.BbkOutline.sequence `[inherited]`

Definition at line 29 of file BbkOutline.java.

String data_center.BbkOutline.shortDesc `[inherited]`

Definition at line 16 of file BbkOutline.java.

String data_center.BbkOutline.shortName `[inherited]`

Definition at line 23 of file BbkOutline.java.

ArrayList<[SpecifiedSubpart](#)> data_center.BbkDetail.specifiedSubparts = new ArrayList<[SpecifiedSubpart](#)>()

Definition at line 15 of file BbkDetail.java.

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ArrayList<[SpecifiedSubscar](#)> data_center.BbkDetail.specifiedSubscars = new ArrayList<[SpecifiedSubscar](#)>()

Definition at line 16 of file BbkDetail.java.

ArrayList<[Twin](#)> data_center.BbkDetail.twins = new ArrayList<[Twin](#)>()

Definition at line 17 of file BbkDetail.java.

String data_center.BbkOutline.type `[inherited]`

Definition at line 13 of file BbkOutline.java.

String data_center.BbkOutline.url `[inherited]`

Definition at line 17 of file BbkOutline.java.

The documentation for this class was generated from the following file:
[BbkDetail.java](#)

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data_center.BbkOutline Class Reference

Inheritance diagram for data_center.BbkOutline:
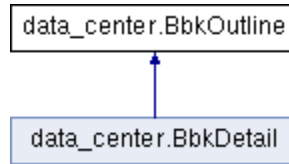
Classes

class Blasting
class Rating

Public Member Functions

BbkOutline ()
BbkOutline (ResultSet resultSet)   throws SQLException
int getScore ()
int getScore (double status_weight, double quality_weight, double feedbacks_weight, double
    publication_weight)
void display ()

Public Attributes

String name
String type
String author
String enterDate
String shortDesc
String url
Rating rating = null
Blasting blasting = null
String ID
String shortName
String releaseStatus
String sampleStatus
String results
String nickname
String part_rating
String sequence
String samples
String references
String groups
String DNA_status
String groupFavorite

Detailed Description

The class used to store the data to be shown in search result. All of the data are fetched from
EasyBbk database and stored as Strings. Also contains the getScore() method to get the score
evaluated by SJTU-software team.

Definition at line 9 of file BbkOutline.java.

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Constructor & Destructor Documentation

data_center.BbkOutline.BbkOutline ()

Definition at line 36 of file BbkOutline.java.

data_center.BbkOutline.BbkOutline (ResultSet *resultSet*) throws SQLException

Definition at line 39 of file BbkOutline.java.

Member Function Documentation

void data_center.BbkOutline.display ()

Print main attributes in cmd for testing.

Definition at line 59 of file BbkOutline.java.

int data_center.BbkOutline.getScore ()

Score at default weight.

Definition at line 45 of file BbkOutline.java.

int data_center.BbkOutline.getScore (double *status_weight*, double *quality_weight*, double *feedbacks_weight*, double *publication_weight*)

Score at custom weight.

Definition at line 51 of file BbkOutline.java.

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Member Data Documentation

String data_center.BbkOutline.author

Definition at line 14 of file BbkOutline.java.

Blasting data_center.BbkOutline.blasting = null

Definition at line 20 of file BbkOutline.java.

String data_center.BbkOutline.DNA_status

Definition at line 33 of file BbkOutline.java.

String data_center.BbkOutline.enterDate

Definition at line 15 of file BbkOutline.java.

String data_center.BbkOutline.groupFavorite

Definition at line 34 of file BbkOutline.java.

String data_center.BbkOutline.groups

Definition at line 32 of file BbkOutline.java.

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String data_center.BbkOutline.ID

Definition at line 22 of file BbkOutline.java.

String data_center.BbkOutline.name

Definition at line 12 of file BbkOutline.java.

String data_center.BbkOutline.nickname

Definition at line 27 of file BbkOutline.java.

String data_center.BbkOutline.part_rating

Definition at line 28 of file BbkOutline.java.

[Rating](#) data_center.BbkOutline.rating = null

Definition at line 19 of file BbkOutline.java.

String data_center.BbkOutline.references

Definition at line 31 of file BbkOutline.java.

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String data_center.BbkOutline.releaseStatus

Definition at line 24 of file BbkOutline.java.

String data_center.BbkOutline.results

Definition at line 26 of file BbkOutline.java.

String data_center.BbkOutline.samples

Definition at line 30 of file BbkOutline.java.

String data_center.BbkOutline.sampleStatus

Definition at line 25 of file BbkOutline.java.

String data_center.BbkOutline.sequence

Definition at line 29 of file BbkOutline.java.

String data_center.BbkOutline.shortDesc

Definition at line 16 of file BbkOutline.java.

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String data_center.BbkOutline.shortName

Definition at line 23 of file BbkOutline.java.

String data_center.BbkOutline.type

Definition at line 13 of file BbkOutline.java.

String data_center.BbkOutline.url

Definition at line 17 of file BbkOutline.java.

The documentation for this class was generated from the following file:
BbkOutline.java

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data_center.BbkProperties Class Reference

Classes

class Category
class DeepSubpart
class Feature
class Parameter
class SpecifiedSubpart
class SpecifiedSubscar
class Twin

Detailed Description

The properties in the other 7 tables exclude main, used to be extended in BbkDetail and BbkUpload to store the details.

Definition at line 8 of file BbkProperties.java.

The documentation for this class was generated from the following file:
   BbkProperties.java

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data_center.BbkType Class Reference

Classes

class [Sketch](#)

Static Public Attributes

static final int [PROMOTER](#) = 1
static final int [RBS](#) = 2
static final int [PROTEIN_DOMAIN](#) = 3
static final int [PROTEIN_CODING_SEQUENCE](#) = 4
static final int [TRANSLATIONAL_UNIT](#) = 5
static final int [TERMINATOR](#) = 6
static final int [DNA](#) = 7
static final int [PLASMID_BACKBONE](#) = 8
static final int [PLASMID](#) = 9
static final int [PRIMER](#) = 10
static final int [COMPOSITE](#) = 11
static final int [PROTEIN_GENERATOR](#) = 12
static final int [REPORTER](#) = 13
static final int [INVERTER](#) = 14
static final int [SIGNALLING](#) = 15
static final int [MEASUREMENT](#) = 16
static final int [OTHER](#) = 0
static final String [strOf_PROMOTER](#) = "Regulatory"
static final String [strOf_RBS](#) = "RBS"
static final String [strOf_PROTEIN_DOMAIN](#) = "Tag"
static final String [strOf_PROTEIN_CODING_SEQUENCE](#) = "Coding"
static final String [strOf_TRANSLATIONAL_UNIT](#) = "Translational_Unit"
static final String [strOf_TERMINATOR](#) = "Terminator"
static final String [strOf_DNA](#) = "DNA"
static final String [strOf_PLASMID_BACKBONE](#) = "Plasmid_Backbone"
static final String [strOf_PLASMID](#) = "Plasmid"
static final String [strOf_PRIMER](#) = "Primer"
static final String [strOf_COMPOSITE](#) = "Composite"
static final String [strOf_PROTEIN_GENERATOR](#) = "Generator"
static final String [strOf_REPORTER](#) = "Reporter"
static final String [strOf_INVERTER](#) = "Inverter"
static final String [strOf_SIGNALLING](#) = "Signalling"
static final String [strOf_MEASUREMENT](#) = "Measurement"

Detailed Description

The class to store the constants of the types of biobrick.

Definition at line 4 of file BbkType.java.

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Member Data Documentation

final int data_center.BbkType.COMPOSITE = 11`[static]`

Definition at line 16 of file BbkType.java.

final int data_center.BbkType.DNA = 7`[static]`

Definition at line 12 of file BbkType.java.

final int data_center.BbkType.INVERTER = 14`[static]`

Definition at line 19 of file BbkType.java.

final int data_center.BbkType.MEASUREMENT = 16`[static]`

Definition at line 21 of file BbkType.java.

final int data_center.BbkType.OTHER = 0`[static]`

Definition at line 22 of file BbkType.java.

final int data_center.BbkType.PLASMID = 9`[static]`

Definition at line 14 of file BbkType.java.

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final int data_center.BbkType.PLASMID_BACKBONE = 8`[static]`

Definition at line 13 of file BbkType.java.

final int data_center.BbkType.PRIMER = 10`[static]`

Definition at line 15 of file BbkType.java.

final int data_center.BbkType.PROMOTER = 1`[static]`

Definition at line 6 of file BbkType.java.

final int data_center.BbkType.PROTEIN_CODING_SEQUENCE = 4`[static]`

Definition at line 9 of file BbkType.java.

final int data_center.BbkType.PROTEIN_DOMAIN = 3`[static]`

Definition at line 8 of file BbkType.java.

final int data_center.BbkType.PROTEIN_GENERATOR = 12`[static]`

Definition at line 17 of file BbkType.java.

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final int data_center.BbkType.RBS = 2 `[static]`

Definition at line 7 of file BbkType.java.

final int data_center.BbkType.REPORTER = 13 `[static]`

Definition at line 18 of file BbkType.java.

final int data_center.BbkType.SIGNALLING = 15 `[static]`

Definition at line 20 of file BbkType.java.

final String data_center.BbkType.strOf_COMPOSITE = "Composite" `[static]`

Definition at line 34 of file BbkType.java.

final String data_center.BbkType.strOf_DNA = "DNA" `[static]`

Definition at line 30 of file BbkType.java.

final String data_center.BbkType.strOf_INVERTER = "Inverter" `[static]`

Definition at line 37 of file BbkType.java.

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final String data_center.BbkType.strOf_MEASUREMENT = "Measurement"`[static]`

Definition at line 39 of file BbkType.java.

final String data_center.BbkType.strOf_PLASMID = "Plasmid"`[static]`

Definition at line 32 of file BbkType.java.

final String data_center.BbkType.strOf_PLASMID_BACKBONE = "Plasmid_Backbone"`[static]`

Definition at line 31 of file BbkType.java.

final String data_center.BbkType.strOf_PRIMER = "Primer"`[static]`

Definition at line 33 of file BbkType.java.

final String data_center.BbkType.strOf_PROMOTER = "Regulatory"`[static]`

Definition at line 24 of file BbkType.java.

final String data_center.BbkType.strOf_PROTEIN_CODING_SEQUENCE = "Coding"`[static]`

Definition at line 27 of file BbkType.java.

final String data_center.BbkType.strOf_PROTEIN_DOMAIN = "Tag"`[static]`

Definition at line 26 of file BbkType.java.

final String data_center.BbkType.strOf_PROTEIN_GENERATOR = "Generator"`[static]`

Definition at line 35 of file BbkType.java.

final String data_center.BbkType.strOf_RBS = "RBS"`[static]`

Definition at line 25 of file BbkType.java.

final String data_center.BbkType.strOf_REPORTER = "Reporter"`[static]`

Definition at line 36 of file BbkType.java.

final String data_center.BbkType.strOf_SIGNALLING = "Signalling"`[static]`

Definition at line 38 of file BbkType.java.

final String data_center.BbkType.strOf_TERMINATOR = "Terminator"`[static]`

Definition at line 29 of file BbkType.java.

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final String data_center.BbkType.strOf_TRANSLATIONAL_UNIT = "Translational_Unit"`[static]`

Definition at line 28 of file BbkType.java.

final int data_center.BbkType.TERMINATOR = 6`[static]`

Definition at line 11 of file BbkType.java.

final int data_center.BbkType.TRANSLATIONAL_UNIT = 5`[static]`

Definition at line 10 of file BbkType.java.

The documentation for this class was generated from the following file:
  BbkType.java

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data_center.BbkUpload Class Reference

Classes

class [Category](#)
class [DeepSubpart](#)
class [Feature](#)
class [Parameter](#)
class [SpecifiedSubpart](#)
class [SpecifiedSubscar](#)
class [Twin](#)

Public Member Functions

[BbkUpload](#) ()
String [getName](#) ()
void [setName](#) (String rawName)
String [getEnterDate](#) ()
void [setEnterDate](#) ()
String [getID](#) ()
void [setID](#) ()
String [getShortName](#) ()
String [getSequence](#) ()
void [setSequence](#) (ArrayList< Object > sequenceTokens, boolean useDefaultScar)
void [fillPrivateData](#) (ResultSet resultSet)   throws SQLException
void [display](#) ()

Public Attributes

String [type](#)
String [author](#)
String [shortDesc](#)
String [nickname](#)
String [groupFavorite](#)
String [delete_this_part](#)
ArrayList< [Category](#) > [categories](#) = new ArrayList<[Category](#)>()
ArrayList< [Feature](#) > [features](#) = new ArrayList<[Feature](#)>()
ArrayList< [Parameter](#) > [parameters](#) = new ArrayList<[Parameter](#)>()

Detailed Description

The data stored locally in the EasyBbk before upload. A filled [BbkUpload](#) can be used to upload a biobrick directly into the database established by SJTU-software.

Definition at line 9 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.BbkUpload ()

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Definition at line 33 of file BbkUpload.java.

Member Function Documentation

void data_center.BbkUpload.display ()

Definition at line 246 of file BbkUpload.java.

void data_center.BbkUpload.fillPrivateData (ResultSet *resultSet*) throws SQLException

Used when filling private from database into bbkUpload, others in DBDataFiller

Exceptions:

SQLException	

Definition at line 120 of file BbkUpload.java.

String data_center.BbkUpload.getEnterDate ()

Definition at line 49 of file BbkUpload.java.

String data_center.BbkUpload.getID ()

Definition at line 58 of file BbkUpload.java.

String data_center.BbkUpload.getName ()

Definition at line 35 of file BbkUpload.java.

String data_center.BbkUpload.getSequence ()

Definition at line 71 of file BbkUpload.java.

String data_center.BbkUpload.getShortName ()

setShortName in setName()

Definition at line 68 of file BbkUpload.java.

void data_center.BbkUpload.setEnterDate ()

Definition at line 52 of file BbkUpload.java.

void data_center.BbkUpload.setID ()

Definition at line 61 of file BbkUpload.java.

void data_center.BbkUpload.setName (String *rawName*)

rawName is some thing without "BBa_", like "B0012". Suffix "_EasyBbk" will be automatically appended to distinguish them from the biobricks fetched from igem.org

Definition at line 41 of file BbkUpload.java.

void data_center.BbkUpload.setSequence (ArrayList< Object > *sequenceTokens*, boolean *useDefaultScar*)

Also set the subscar, subpart, deepsubpart and twins at the same time Please call uploadCenter.isSequanceValid() first. useDefaultScar means use RFC[10] to fill all unspecified scars between bio-bricks

Definition at line 78 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkUpload.author

Definition at line 19 of file BbkUpload.java.

ArrayList<Category> data_center.BbkUpload.categories = new ArrayList<Category>()

Definition at line 25 of file BbkUpload.java.

String data_center.BbkUpload.delete_this_part

Definition at line 23 of file BbkUpload.java.

ArrayList<Feature> data_center.BbkUpload.features = new ArrayList<Feature>()

Definition at line 26 of file BbkUpload.java.

String data_center.BbkUpload.groupFavorite

Definition at line 22 of file BbkUpload.java.

String data_center.BbkUpload.nickname

Definition at line 21 of file BbkUpload.java.

_

ArrayList<[Parameter](#)> data_center.BbkUpload.parameters = new ArrayList<[Parameter](#)>()

Definition at line 27 of file BbkUpload.java.

String data_center.BbkUpload.shortDesc

Definition at line 20 of file BbkUpload.java.

String data_center.BbkUpload.type

Definition at line 18 of file BbkUpload.java.

The documentation for this class was generated from the following file:
[BbkUpload.java](#)

_

data_center.BbkType.Sketch.BioBrick Class Reference

Static Public Attributes

static final int [PROMOTER](#) = 1
static final int [RBS](#) = 2
static final int [PROTEIN_CODING_SEQUENCE](#) = 3
static final int [TERMINATOR](#) = 4
static final int [PRIMER](#) = 5
static final int [OTHER](#) = 0

Detailed Description

Definition at line 52 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.BioBrick.OTHER = 0 `[static]`

Definition at line 59 of file BbkType.java.

final int data_center.BbkType.Sketch.BioBrick.PRIMER = 5 `[static]`

Definition at line 58 of file BbkType.java.

final int data_center.BbkType.Sketch.BioBrick.PROMOTER = 1 `[static]`

Definition at line 54 of file BbkType.java.

final int data_center.BbkType.Sketch.BioBrick.PROTEIN_CODING_SEQUENCE = 3 `[static]`

_

Definition at line 56 of file BbkType.java.

final int data_center.BbkType.Sketch.BioBrick.RBS = 2`[static]`

Definition at line 55 of file BbkType.java.

final int data_center.BbkType.Sketch.BioBrick.TERMINATOR = 4`[static]`

Definition at line 57 of file BbkType.java.

The documentation for this class was generated from the following file:
BbkType.java

_

data_center.SketchComponent.BioBrick Class Reference

Inheritance diagram for data_center.SketchComponent.BioBrick:
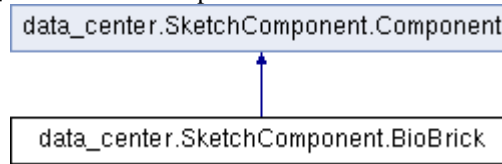
Public Member Functions

BioBrick (int theID, int secondaryType, Point center, Color color)
BioBrick (int theID, String bbkName, int secondaryType, Point center, Color color)
BioBrick toSubclass ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
String getString ()
void setString (String bbkName)
Point getCenter ()
void setCenter (Point pos)
Color getColor ()
void setColor (Color color)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
Font getFont ()
void setFont (Font font)
Double getSize ()
void setSize (double size)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)

Public Attributes

BbkOutline bbkOutline = null
int secondaryType
Point center
Color color
int ID
String primaryType

Detailed Description

Definition at line 164 of file SketchComponent.java.

Constructor & Destructor Documentation

data_center.SketchComponent.BioBrick.BioBrick (int *theID*, int *secondaryType*, Point *center*, Color *color*)

Definition at line 172 of file SketchComponent.java.

data_center.SketchComponent.BioBrick.BioBrick (int *theID*, String *bbkName*, int *secondaryType*, Point *center*, Color *color*)

bbkOutline should be set by setString(bbkName)

Definition at line 183 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.BioBrick.display ()

Definition at line 231 of file SketchComponent.java.

Point data_center.SketchComponent.BioBrick.getCenter ()

Definition at line 216 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()[inherited]

bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

_

Color data_center.SketchComponent.BioBrick.getColor ()

Definition at line 224 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()`[inherited]`

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()`[inherited]`

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.BioBrick.getSecondaryType ()

Definition at line 198 of file SketchComponent.java.

Double data_center.SketchComponent.Component.getSize ()`[inherited]`
length in [BackBone](#), thickness in [Relation](#) and scale in [BioVector](#)

Definition at line 77 of file SketchComponent.java.

String data_center.SketchComponent.BioBrick.getString ()

Definition at line 206 of file SketchComponent.java.

_

void data_center.SketchComponent.BioBrick.setCenter (Point *pos*)

Definition at line 220 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)`[inherited]`

Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.BioBrick.setColor (Color *color*)

Definition at line 228 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)`[inherited]`

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)`[inherited]`

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.BioBrick.setSecondaryType (Integer *type*)

Definition at line 202 of file SketchComponent.java.

_

void data_center.SketchComponent.Component.setSize (double *size*)`[inherited]`

Definition at line 80 of file SketchComponent.java.

void data_center.SketchComponent.BioBrick.setString (String *bbkName*)

Set bbkOutline by bbkName in the function, if there's no such bbkName in the database, bbkOutline will be a null

Definition at line 212 of file SketchComponent.java.

BackBone data_center.SketchComponent.Component.toBackBone ()`[inherited]`

Definition at line 35 of file SketchComponent.java.

BioBrick data_center.SketchComponent.Component.toBioBrick ()`[inherited]`

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()`[inherited]`

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()`[inherited]`

Definition at line 26 of file SketchComponent.java.

_

Protein data_center.SketchComponent.Component.toProtein ()`[inherited]`

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

BioBrick data_center.SketchComponent.BioBrick.toSubclass ()

Definition at line 194 of file SketchComponent.java.

Member Data Documentation

BbkOutline data_center.SketchComponent.BioBrick.bbkOutline = null

Definition at line 166 of file SketchComponent.java.

Point data_center.SketchComponent.BioBrick.center

Definition at line 168 of file SketchComponent.java.

Color data_center.SketchComponent.BioBrick.color

Definition at line 169 of file SketchComponent.java.

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int data_center.SketchComponent.Component.ID[inherited]

Definition at line 12 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType[inherited]

Definition at line 13 of file SketchComponent.java.

int data_center.SketchComponent.BioBrick.secondaryType

Definition at line 167 of file SketchComponent.java.

The documentation for this class was generated from the following file:
   SketchComponent.java

_

data_center.SketchComponent.BioVector Class Reference

Inheritance diagram for data_center.SketchComponent.BioVector:

data_center.SketchComponent.Component

data_center.SketchComponent.BioVector
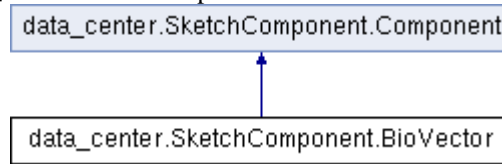
Public Member Functions

BioVector (int theID, int secondaryType, Point center, double scale)
BioVector toSubclass ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
Point getCenter ()
void setCenter (Point pos)
Double getSize ()
void setSize (double scale)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
String getString ()
void setString (String str)
Font getFont ()
void setFont (Font font)
Color getColor ()
void setColor (Color color)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)

Public Attributes

int secondaryType
Point center
double scale
int ID
String primaryType

Detailed Description

Definition at line 423 of file SketchComponent.java.

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Constructor & Destructor Documentation

data_center.SketchComponent.BioVector.BioVector (int *theID*, int *secondaryType*, Point *center*, double *scale*)

Definition at line 429 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.BioVector.display ()

Definition at line 465 of file SketchComponent.java.

Point data_center.SketchComponent.BioVector.getCenter ()

Definition at line 450 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()`[inherited]`
bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

Color data_center.SketchComponent.Component.getColor ()`[inherited]`

Definition at line 71 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()`[inherited]`

_

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()[inherited]

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.BioVector.getSecondaryType ()

Definition at line 442 of file SketchComponent.java.

Double data_center.SketchComponent.BioVector.getSize ()

Definition at line 458 of file SketchComponent.java.

String data_center.SketchComponent.Component.getString ()[inherited]
text for Label, and bbkName for BioBrick

Definition at line 55 of file SketchComponent.java.

void data_center.SketchComponent.BioVector.setCenter (Point *pos*)

Definition at line 454 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)[inherited]

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Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.Component.setColor (Color *color*)`[inherited]`

Definition at line 74 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)`[inherited]`

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)`[inherited]`

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.BioVector.setSecondaryType (Integer *type*)

Definition at line 446 of file SketchComponent.java.

void data_center.SketchComponent.BioVector.setSize (double *scale*)

Definition at line 462 of file SketchComponent.java.

void data_center.SketchComponent.Component.setString (String *str*)`[inherited]`
    text for [Label], and bbkName for [BioBrick]

Definition at line 59 of file SketchComponent.java.

_

BackBone data_center.SketchComponent.Component.toBackBone ()`[inherited]`

Definition at line 35 of file SketchComponent.java.

BioBrick data_center.SketchComponent.Component.toBioBrick ()`[inherited]`

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()`[inherited]`

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()`[inherited]`

Definition at line 26 of file SketchComponent.java.

Protein data_center.SketchComponent.Component.toProtein ()`[inherited]`

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

BioVector data_center.SketchComponent.BioVector.toSubclass ()

Definition at line 438 of file SketchComponent.java.

Member Data Documentation

Point data_center.SketchComponent.BioVector.center

Definition at line 426 of file SketchComponent.java.

int data_center.SketchComponent.Component.ID`[inherited]`

Definition at line 12 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType`[inherited]`

Definition at line 13 of file SketchComponent.java.

double data_center.SketchComponent.BioVector.scale

Definition at line 427 of file SketchComponent.java.

int data_center.SketchComponent.BioVector.secondaryType

Definition at line 425 of file SketchComponent.java.

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The documentation for this class was generated from the following file:

SketchComponent.java

data_center.BbkOutline.Blasting Class Reference

Public Attributes

int score
double eValue

Detailed Description

The evaluation criteria stored when blasting.

Definition at line 146 of file BbkOutline.java.

Member Data Documentation

double data_center.BbkOutline.Blasting.eValue

Definition at line 149 of file BbkOutline.java.

int data_center.BbkOutline.Blasting.score

Definition at line 148 of file BbkOutline.java.

The documentation for this class was generated from the following file:
BbkOutline.java

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data_center.BlastingSearcher Class Reference

Detailed Description

The class to connect to the remote server set up by SJTU-software to execute a blast compare between the sequence provided and the sequence in the current biobrick database. The class depends on the class DatabaseConnector to get the BbkOutline instances.

Definition at line 21 of file BlastingSearcher.java.

The documentation for this class was generated from the following file:
    BlastingSearcher.java

data_center.BbkDetail.Category Class Reference

Inheritance diagram for data_center.BbkDetail.Category:
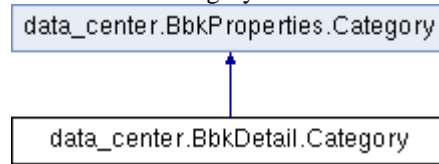
Public Member Functions

Category (ResultSet resultSet)   throws SQLException

Public Attributes

String category

Detailed Description

Definition at line 27 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.Category.Category (ResultSet *resultSet*) throws SQLException

Definition at line 29 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.Category.category `[inherited]`

Definition at line 12 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkDetail.java

–

data_center.DBConsts.Header.Category Class Reference

Static Public Attributes

static final String [CATEGORY](#) = "category"

Detailed Description

Definition at line 93 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.Category.CATEGORY = "category" `[static]`

Definition at line 95 of file DBConsts.java.

The documentation for this class was generated from the following file:

[DBConsts.java](#)

data_center.BbkProperties.Category Class Reference

Inheritance diagram for data_center.BbkProperties.Category:

Public Member Functions

Category ()

Category (ResultSet resultSet)   throws SQLException

Public Attributes

String category

Detailed Description

Definition at line 10 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.Category.Category ()

Definition at line 14 of file BbkProperties.java.

data_center.BbkProperties.Category.Category (ResultSet *resultSet*) throws SQLException

Definition at line 16 of file BbkProperties.java.

Member Data Documentation

String data_center.BbkProperties.Category.category

Definition at line 12 of file BbkProperties.java.

–

The documentation for this class was generated from the following file:

BbkProperties.java

data_center.BbkUpload.Category Class Reference

Inheritance diagram for data_center.BbkUpload.Category:

Public Member Functions

Category (String category)
Category (ResultSet resultSet)   throws SQLException

Public Attributes

String category

Detailed Description

Definition at line 132 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.Category.Category (String *category*)

Definition at line 134 of file BbkUpload.java.

data_center.BbkUpload.Category.Category (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 140 of file BbkUpload.java.

Member Data Documentation

String data_center.BbkProperties.Category.category`[inherited]`

Definition at line 12 of file BbkProperties.java.

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The documentation for this class was generated from the following file:

BbkUpload.java

data_center.CompareCenter Class Reference

Public Member Functions

CompareCenter ()
BbkDetail assignDetail (String bbkName, int pos)
BbkDetail getDetail (int pos)

Public Attributes

BbkDetail[] compareList = {null, null, null}

Detailed Description

Provide a comparison between up to 3 bbkDetails, pos == 0, 1, 2

Definition at line 4 of file CompareCenter.java.

Constructor & Destructor Documentation

data_center.CompareCenter.CompareCenter ()

Definition at line 8 of file CompareCenter.java.

Member Function Documentation

BbkDetail data_center.CompareCenter.assignDetail (String *bbkName*, int *pos*)

Specify a bbkName to inquire in the database, set it in the list and return.

Returns:
The BbkDetail instance just assigned, null if the bbkName is not in database or the pos is not 0, 1 or 2.

Definition at line 13 of file CompareCenter.java.

BbkDetail data_center.CompareCenter.getDetail (int *pos*)

Check the detail stored in the 3 slots in the compareCenter.

Definition at line 26 of file CompareCenter.java.

–

Member Data Documentation

BbkDetail [] data_center.CompareCenter.compareList = {null, null, null}

Definition at line 6 of file CompareCenter.java.

The documentation for this class was generated from the following file:

CompareCenter.java

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data_center.SketchComponent.Component Class Reference

Inheritance diagram for data_center.SketchComponent.Component:
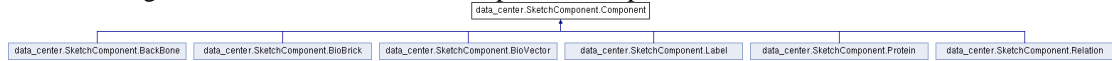
Public Member Functions

Component (int theID, String theType)
abstract Component toSubclass ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
String getString ()
void setString (String str)
Point getCenter ()
void setCenter (Point center)
Font getFont ()
void setFont (Font font)
Color getColor ()
void setColor (Color color)
Double getSize ()
void setSize (double size)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)
void display ()

Public Attributes

int ID
String primaryType

Detailed Description

Definition at line 10 of file SketchComponent.java.

Constructor & Destructor Documentation

data_center.SketchComponent.Component.Component (int *theID*, String *theType*)

Definition at line 15 of file SketchComponent.java.

_

Member Function Documentation

void data_center.SketchComponent.Component.display ()

Definition at line 93 of file SketchComponent.java.

Point data_center.SketchComponent.Component.getCenter ()

Definition at line 61 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()

bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

Color data_center.SketchComponent.Component.getColor ()

Definition at line 71 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.Component.getSecondaryType ()

Definition at line 48 of file SketchComponent.java.

Double data_center.SketchComponent.Component.getSize ()

length in [BackBone](), thickness in [Relation]() and scale in [BioVector]()

Definition at line 77 of file SketchComponent.java.

String data_center.SketchComponent.Component.getString ()

text for [Label](), and bbkName for [BioBrick]()

Definition at line 55 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCenter (Point *center*)

Definition at line 64 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)

Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.Component.setColor (Color *color*)

Definition at line 74 of file SketchComponent.java.

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void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSecondaryType (Integer *type*)
Secondary type is defined in BbkType.Sketch

Definition at line 52 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSize (double *size*)

Definition at line 80 of file SketchComponent.java.

void data_center.SketchComponent.Component.setString (String *str*)
text for Label, and bbkName for BioBrick

Definition at line 59 of file SketchComponent.java.

BackBone data_center.SketchComponent.Component.toBackBone ()

Definition at line 35 of file SketchComponent.java.

_

BioBrick data_center.SketchComponent.Component.toBioBrick ()

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()

Definition at line 26 of file SketchComponent.java.

Protein data_center.SketchComponent.Component.toProtein ()

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()

Definition at line 38 of file SketchComponent.java.

abstract Component data_center.SketchComponent.Component.toSubclass ()`[abstract]`

This function is used to be inherited to convert Component object into its subclasses using convariant, but seems failed...

_

Member Data Documentation

int data_center.SketchComponent.Component.ID

Definition at line 12 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType

Definition at line 13 of file SketchComponent.java.

The documentation for this class was generated from the following file:

SketchComponent.java

data_center.DatabaseConnector Class Reference

Detailed Description

The class to connect the EasyBbk and the database by SJTU-software.

Definition at line 9 of file DatabaseConnector.java.

The documentation for this class was generated from the following file:
    DatabaseConnector.java

data_center.DataCenter Class Reference

Public Member Functions

DataCenter ()

Public Attributes

SearchCenter searchCenter
SketchCenter sketchCenter
CompareCenter compareCenter
UploadCenter uploadCenter

Detailed Description

The overall function of the package data_center. Keep the Datacenter instance to get access to the searchCenter, sketchCenter, compareCenter, uploadCenter, which provide all of the main function in EasyBbk.

Definition at line 6 of file DataCenter.java.

Constructor & Destructor Documentation

data_center.DataCenter.DataCenter ()

Definition at line 13 of file DataCenter.java.

Member Data Documentation

CompareCenter data_center.DataCenter.compareCenter

Definition at line 10 of file DataCenter.java.

SearchCenter data_center.DataCenter.searchCenter

Definition at line 8 of file DataCenter.java.

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SketchCenter data_center.DataCenter.sketchCenter

Definition at line 9 of file DataCenter.java.

UploadCenter data_center.DataCenter.uploadCenter

Definition at line 11 of file DataCenter.java.

The documentation for this class was generated from the following file:

DataCenter.java

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data_center.DBConsts Class Reference

Classes

class [Header](#)
class [Rating](#)
class [Table](#)

Detailed Description

Store all the constant in the Database, including headers and default score weights

Definition at line 5 of file DBConsts.java.

The documentation for this class was generated from the following file:
    [DBConsts.java](#)

data_center.DBConsts.Header.DeepSub Class Reference

Static Public Attributes

static final String [ID](#) = "subpart_id"
static final String [NAME](#) = "subpart_name"
static final String [SHORT_DESC](#) = "subpart_short_desc"
static final String [TYPE](#) = "subpart_type"
static final String [NICKNAME](#) = "subpart_nickname"

Detailed Description

DeepSubpart.ID != ID

Definition at line 99 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.DeepSub.ID = "subpart_id"`[static]`

Definition at line 101 of file DBConsts.java.

final String data_center.DBConsts.Header.DeepSub.NAME = "subpart_name"`[static]`

Definition at line 102 of file DBConsts.java.

final String data_center.DBConsts.Header.DeepSub.NICKNAME = "subpart_nickname"`[static]`

Definition at line 105 of file DBConsts.java.

final String data_center.DBConsts.Header.DeepSub.SHORT_DESC = "subpart_short_desc"`[static]`

_

Definition at line 103 of file DBConsts.java.

final String data_center.DBConsts.Header.DeepSub.TYPE = "subpart_type" `[static]`

Definition at line 104 of file DBConsts.java.

The documentation for this class was generated from the following file:

DBConsts.java

–

data_center.BbkDetail.DeepSubpart Class Reference

Inheritance diagram for data_center.BbkDetail.DeepSubpart:
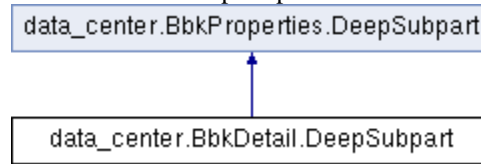
Public Member Functions

[DeepSubpart](ResultSet resultSet)   throws SQLException

Public Attributes

String [ID](#)
String [name](#)
String [shortDesc](#)
String [type](#)
String [nickname](#)

Detailed Description

Definition at line 33 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 35 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.DeepSubpart.ID `[inherited]`

Definition at line 24 of file BbkProperties.java.

–

String data_center.BbkProperties.DeepSubpart.name`[inherited]`

Definition at line 25 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.nickname`[inherited]`

Definition at line 28 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.shortDesc`[inherited]`

Definition at line 26 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.type`[inherited]`

Definition at line 27 of file BbkProperties.java.

The documentation for this class was generated from the following file:
BbkDetail.java

_

data_center.BbkProperties.DeepSubpart Class Reference

Inheritance diagram for data_center.BbkProperties.DeepSubpart:

Public Member Functions

DeepSubpart ()
DeepSubpart (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String name
String shortDesc
String type
String nickname

Detailed Description

Definition at line 22 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.DeepSubpart.DeepSubpart ()

Definition at line 30 of file BbkProperties.java.

data_center.BbkProperties.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 32 of file BbkProperties.java.

_

Member Data Documentation

String data_center.BbkProperties.DeepSubpart.ID

Definition at line 24 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.name

Definition at line 25 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.nickname

Definition at line 28 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.shortDesc

Definition at line 26 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.type

Definition at line 27 of file BbkProperties.java.

The documentation for this class was generated from the following file:
BbkProperties.java

_

data_center.BbkUpload.DeepSubpart Class Reference

Inheritance diagram for data_center.BbkUpload.DeepSubpart:

Public Member Functions

DeepSubpart (BbkDetail.DeepSubpart subpart)
DeepSubpart (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String name
String shortDesc
String type
String nickname

Detailed Description

Definition at line 183 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.DeepSubpart.DeepSubpart (BbkDetail.DeepSubpart *subpart*)

Definition at line 185 of file BbkUpload.java.

data_center.BbkUpload.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 195 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkProperties.DeepSubpart.ID `[inherited]`

Definition at line 24 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.name `[inherited]`

Definition at line 25 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.nickname `[inherited]`

Definition at line 28 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.shortDesc `[inherited]`

Definition at line 26 of file BbkProperties.java.

String data_center.BbkProperties.DeepSubpart.type `[inherited]`

Definition at line 27 of file BbkProperties.java.

The documentation for this class was generated from the following file:
   BbkUpload.java

data_center.BbkDetail.Feature Class Reference

Inheritance diagram for data_center.BbkDetail.Feature:

Public Member Functions

[Feature](#) (ResultSet resultSet)   throws SQLException

Public Attributes

String [ID](#)
String [title](#)
String [type](#)
String [direction](#)
String [startPos](#)
String [endPos](#)

Detailed Description

Definition at line 39 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.Feature.Feature (ResultSet *resultSet*) throws SQLException

Definition at line 41 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.Feature.direction `[inherited]`

Definition at line 47 of file BbkProperties.java.

_

String data_center.BbkProperties.Feature.endPos[inherited]

Definition at line 49 of file BbkProperties.java.

String data_center.BbkProperties.Feature.ID[inherited]

Definition at line 44 of file BbkProperties.java.

String data_center.BbkProperties.Feature.startPos[inherited]

Definition at line 48 of file BbkProperties.java.

String data_center.BbkProperties.Feature.title[inherited]

Definition at line 45 of file BbkProperties.java.

String data_center.BbkProperties.Feature.type[inherited]
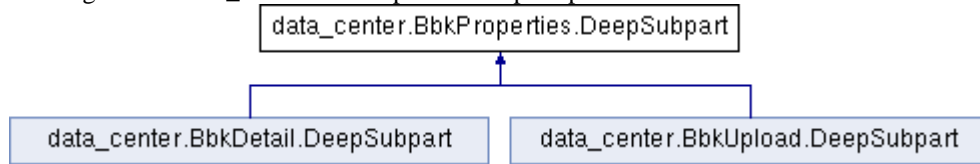
Definition at line 46 of file BbkProperties.java.

The documentation for this class was generated from the following file:
  BbkDetail.java

_

data_center.DBConsts.Header.Feature Class Reference

Static Public Attributes

static final String [ID](#) = "id"
static final String [TITLE](#) = "title"
static final String [TYPE](#) = "type"
static final String [DIRECTION](#) = "direction"
static final String [START_POS](#) = "startpos"
static final String [END_POS](#) = "endpos"

Detailed Description

Definition at line 108 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.Feature.DIRECTION = "direction"`[static]`

Definition at line 113 of file DBConsts.java.

final String data_center.DBConsts.Header.Feature.END_POS = "endpos"`[static]`

Definition at line 115 of file DBConsts.java.

final String data_center.DBConsts.Header.Feature.ID = "id"`[static]`

Definition at line 110 of file DBConsts.java.

final String data_center.DBConsts.Header.Feature.START_POS = "startpos"`[static]`

Definition at line 114 of file DBConsts.java.

_

final String data_center.DBConsts.Header.Feature.TITLE = "title" `[static]`

Definition at line 111 of file DBConsts.java.

final String data_center.DBConsts.Header.Feature.TYPE = "type" `[static]`

Definition at line 112 of file DBConsts.java.

The documentation for this class was generated from the following file:
DBConsts.java

–

data_center.BbkUpload.Feature Class Reference

Inheritance diagram for data_center.BbkUpload.Feature:
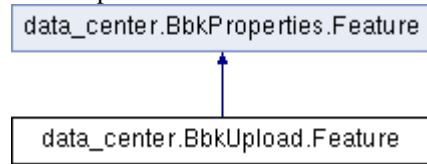
Public Member Functions

Feature (String ID, String title, String type, String direction, String startPos, String endPos)

Feature (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String title
String type
String direction
String startPos
String endPos

Detailed Description

Definition at line 144 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.Feature.Feature (String *ID*, String *title*, String *type*, String *direction*, String *startPos*, String *endPos*)

Definition at line 146 of file BbkUpload.java.

data_center.BbkUpload.Feature.Feature (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 158 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkProperties.Feature.direction `[inherited]`

Definition at line 47 of file BbkProperties.java.

String data_center.BbkProperties.Feature.endPos `[inherited]`

Definition at line 49 of file BbkProperties.java.

String data_center.BbkProperties.Feature.ID `[inherited]`

Definition at line 44 of file BbkProperties.java.

String data_center.BbkProperties.Feature.startPos `[inherited]`

Definition at line 48 of file BbkProperties.java.

String data_center.BbkProperties.Feature.title `[inherited]`

Definition at line 45 of file BbkProperties.java.

String data_center.BbkProperties.Feature.type `[inherited]`
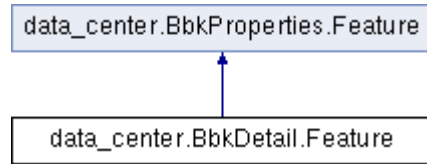
Definition at line 46 of file BbkProperties.java.

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The documentation for this class was generated from the following file:

BbkUpload.java

_

data_center.BbkProperties.Feature Class Reference

Inheritance diagram for data_center.BbkProperties.Feature:

Public Member Functions

Feature ()

Feature (ResultSet resultSet)   throws SQLException

Public Attributes

String ID

String title

String type

String direction

String startPos

String endPos

Detailed Description

Definition at line 42 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.Feature.Feature ()

Definition at line 51 of file BbkProperties.java.

data_center.BbkProperties.Feature.Feature (ResultSet *resultSet*) throws SQLException

Definition at line 53 of file BbkProperties.java.

_

Member Data Documentation

String data_center.BbkProperties.Feature.direction

Definition at line 47 of file BbkProperties.java.

String data_center.BbkProperties.Feature.endPos

Definition at line 49 of file BbkProperties.java.

String data_center.BbkProperties.Feature.ID

Definition at line 44 of file BbkProperties.java.

String data_center.BbkProperties.Feature.startPos

Definition at line 48 of file BbkProperties.java.

String data_center.BbkProperties.Feature.title

Definition at line 45 of file BbkProperties.java.

String data_center.BbkProperties.Feature.type

Definition at line 46 of file BbkProperties.java.

_

The documentation for this class was generated from the following file:

BbkProperties.java

_

data_center.DBConsts.Header Class Reference

Classes

class [Category](#)
class [DeepSub](#)
class [Feature](#)
class [Main](#)
class [Parameter](#)
class [SpecScar](#)
class [SpecSub](#)
class [Twin](#)

Detailed Description

Definition at line 50 of file DBConsts.java.

The documentation for this class was generated from the following file:
[DBConsts.java](#)

_

data_center.HistoryList< T > Class Reference

Public Member Functions

void [putInItem](T item)
int [getCurrentItemNo]()
T [getCurrentItem]()
boolean [canRollBack]()
boolean [canGoForward]()
T [rollBack]()
T [goForward]()
void [clear]()

Detailed Description

The class implements a history list contains roll back and go forward function.

Definition at line 6 of file HistoryList.java.

Member Function Documentation

boolean data_center.HistoryList< T >.canGoForward ()

Definition at line 41 of file HistoryList.java.

boolean data_center.HistoryList< T >.canRollBack ()

Definition at line 36 of file HistoryList.java.

void data_center.HistoryList< T >.clear ()

Definition at line 76 of file HistoryList.java.

_

T data_center.HistoryList< T >.getCurrentItem ()

Definition at line 28 of file HistoryList.java.

int data_center.HistoryList< T >.getCurrentItemNo ()

Definition at line 23 of file HistoryList.java.

T data_center.HistoryList< T >.goForward ()

Definition at line 61 of file HistoryList.java.

void data_center.HistoryList< T >.putInItem (T *item*)
Keeps the previous items and flush the following items.

Definition at line 12 of file HistoryList.java.

T data_center.HistoryList< T >.rollBack ()

Definition at line 46 of file HistoryList.java.

The documentation for this class was generated from the following file:
HistoryList.java

_

data_center.SketchComponent.Label Class Reference

Inheritance diagram for data_center.SketchComponent.Label:

```
data_center.SketchComponent.Component
                    ▲
                    |
data_center.SketchComponent.Label
```

Public Member Functions

Label (int theID, String text, Point pos, Font font, Color color)
Label toSubclass ()
String getString ()
void setString (String text)
Point getCenter ()
void setCenter (Point pos)
Font getFont ()
void setFont (Font font)
Color getColor ()
void setColor (Color color)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
Double getSize ()
void setSize (double size)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)

Public Attributes

String text
Point center
Font font
Color color
int ID
String primaryType

Detailed Description

Definition at line 102 of file SketchComponent.java.

_

Constructor & Destructor Documentation

data_center.SketchComponent.Label.Label (int *theID,* String *text,* Point *pos,* Font *font,* Color *color*)

Definition at line 110 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.Label.display ()

Definition at line 156 of file SketchComponent.java.

Point data_center.SketchComponent.Label.getCenter ()

Definition at line 133 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()`[inherited]`
bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

Color data_center.SketchComponent.Label.getColor ()

Definition at line 149 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()`[inherited]`

_

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Label.getFont ()

Definition at line 141 of file SketchComponent.java.

Integer data_center.SketchComponent.Component.getSecondaryType ()`[inherited]`

Definition at line 48 of file SketchComponent.java.

Double data_center.SketchComponent.Component.getSize ()`[inherited]`
length in [BackBone](), thickness in [Relation]() and scale in [BioVector]()

Definition at line 77 of file SketchComponent.java.

String data_center.SketchComponent.Label.getString ()

Definition at line 125 of file SketchComponent.java.

void data_center.SketchComponent.Label.setCenter (Point *pos*)

Definition at line 137 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)`[inherited]`

_

Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.Label.setColor (Color *color*)

Definition at line 153 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)`[inherited]`

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Label.setFont (Font *font*)

Definition at line 145 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSecondaryType (Integer *type*)`[inherited]`

Secondary type is defined in BbkType.Sketch

Definition at line 52 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSize (double *size*)`[inherited]`

Definition at line 80 of file SketchComponent.java.

void data_center.SketchComponent.Label.setString (String *text*)

Definition at line 129 of file SketchComponent.java.

_

BackBone data_center.SketchComponent.Component.toBackBone ()`[inherited]`

Definition at line 35 of file SketchComponent.java.

BioBrick data_center.SketchComponent.Component.toBioBrick ()`[inherited]`

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()`[inherited]`

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()`[inherited]`

Definition at line 26 of file SketchComponent.java.

Protein data_center.SketchComponent.Component.toProtein ()`[inherited]`

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

_

[Label](#) data_center.SketchComponent.Label.toSubclass ()

Definition at line 121 of file SketchComponent.java.

Member Data Documentation

Point data_center.SketchComponent.Label.center

Definition at line 105 of file SketchComponent.java.

Color data_center.SketchComponent.Label.color

Definition at line 107 of file SketchComponent.java.

Font data_center.SketchComponent.Label.font

Definition at line 106 of file SketchComponent.java.

int data_center.SketchComponent.Component.ID `[inherited]`

Definition at line 12 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType `[inherited]`

Definition at line 13 of file SketchComponent.java.

_

String data_center.SketchComponent.Label.text

Definition at line 104 of file SketchComponent.java.

The documentation for this class was generated from the following file:

SketchComponent.java

_

data_center.DBConsts.Header.Main Class Reference

Static Public Attributes

static final String [NAME](#) = "part_name"
static final String [TYPE](#) = "part_type"
static final String [AUTHOR](#) = "part_author"
static final String [ENTER_DATE](#) = "part_entered"
static final String [SHORT_DESC](#) = "part_short_desc"
static final String [URL](#) = "part_url"
static final String [ID](#) = "part_id"
static final String [SHORT_NAME](#) = "part_short_name"
static final String [RELEASE_STATUS](#) = "release_status"
static final String [SAMPLE_STATUS](#) = "sample_status"
static final String [RESULTS](#) = "part_results"
static final String [NICKNAME](#) = "part_nickname"
static final String [PART_RATING](#) = "part_rating"
static final String [SEQUENCE](#) = "sequence"
static final String [SAMPLES](#) = "samples"
static final String [REFERENCES](#) = "references"
static final String [GROUPS](#) = "groups"
static final String [DNA_STATUS](#) = "DNA_status"
static final String [GROUP_FAVOURITE](#) = "Group_favorite"
static final String [DELETE_THIS_PART](#) = "delete_this_part"
static final String [TOT_CONFIRMED](#) = "tot_confirmed"
static final String [DETAIL_NOT_CONFIRMED](#) = "detail_not_confirmed"
static final String [AVERAGE_STARS](#) = "average_stars"
static final String [TOT_COMMENTS](#) = "tot_comments"
static final String [GOOGLE_ITEMS](#) = "google_items"
static final String [FIRST_URL](#) = "first_url"
static final String [STATUS](#) = "status"
static final String [QUALITY](#) = "quality"
static final String [FEEDBACKS](#) = "feedbacks"
static final String [PUBLICATION](#) = "publication"
static final String [RATING](#) = "rating"

Detailed Description

Definition at line 52 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.Main.AUTHOR = "part_author" `[static]`

Definition at line 56 of file DBConsts.java.

_

final String data_center.DBConsts.Header.Main.AVERAGE_STARS =
"average_stars" `[static]`

Definition at line 79 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.DELETE_THIS_PART =
"delete_this_part" `[static]`

Definition at line 76 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.DETAIL_NOT_CONFIRMED =
"detail_not_confirmed" `[static]`

Definition at line 78 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.DNA_STATUS = "DNA_status" `[static]`

Definition at line 72 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.ENTER_DATE = "part_entered" `[static]`

Definition at line 57 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.FEEDBACKS = "feedbacks" `[static]`

Definition at line 86 of file DBConsts.java.

_

final String data_center.DBConsts.Header.Main.FIRST_URL = "first_url" `[static]`

Definition at line 82 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.GOOGLE_ITEMS = "google_items" `[static]`

Definition at line 81 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.GROUP_FAVOURITE = "Group_favorite" `[static]`

Definition at line 73 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.GROUPS = "groups" `[static]`

Definition at line 71 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.ID = "part_id" `[static]`

Definition at line 61 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.NAME = "part_name" `[static]`

Definition at line 54 of file DBConsts.java.

_

final String data_center.DBConsts.Header.Main.NICKNAME = "part_nickname" `[static]`

Definition at line 66 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.PART_RATING = "part_rating" `[static]`

Definition at line 67 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.PUBLICATION = "publication" `[static]`

Definition at line 87 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.QUALITY = "quality" `[static]`

Definition at line 85 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.RATING = "rating" `[static]`

Definition at line 88 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.REFERENCES = "references" `[static]`

Definition at line 70 of file DBConsts.java.

_

final String data_center.DBConsts.Header.Main.RELEASE_STATUS = "release_status" `[static]`

Definition at line 63 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.RESULTS = "part_results" `[static]`

Definition at line 65 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.SAMPLE_STATUS = "sample_status" `[static]`

Definition at line 64 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.SAMPLES = "samples" `[static]`

Definition at line 69 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.SEQUENCE = "sequence" `[static]`

Definition at line 68 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.SHORT_DESC = "part_short_desc" `[static]`

Definition at line 58 of file DBConsts.java.

_

**final String data_center.DBConsts.Header.Main.SHORT_NAME =
"part_short_name"** `[static]`

Definition at line 62 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.STATUS = "status" `[static]`

Definition at line 84 of file DBConsts.java.

**final String data_center.DBConsts.Header.Main.TOT_COMMENTS =
"tot_comments"** `[static]`

Definition at line 80 of file DBConsts.java.

**final String data_center.DBConsts.Header.Main.TOT_CONFIRMED =
"tot_confirmed"** `[static]`

Definition at line 77 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.TYPE = "part_type" `[static]`

Definition at line 55 of file DBConsts.java.

final String data_center.DBConsts.Header.Main.URL = "part_url" `[static]`

Definition at line 59 of file DBConsts.java.

_

The documentation for this class was generated from the following file:

    DBConsts.java

data_center.SketchProject.Operation Class Reference

Public Member Functions

Operation (int ID, int opeType, int attType, Object pre, Object fol)
Operation generateReversedOp ()

Public Attributes

int ID
int operationType
int attributeType
Object previous = null
Object following = null

Static Public Attributes

static final int ADD = 1
static final int REMOVE = 2
static final int MODIFY = 3
static final int TYPE_COMPONENT = 0
static final int TYPE_STRING = 1
static final int TYPE_CENTER = 2
static final int TYPE_FONT = 3
static final int TYPE_COLOR = 4
static final int TYPE_SIZE = 5
static final int TYPE_NULL = -1

Detailed Description

Definition at line 38 of file SketchProject.java.

Constructor & Destructor Documentation

data_center.SketchProject.Operation.Operation (int *ID*, int *opeType*, int *attType*, Object *pre*, Object *fol*)

Definition at line 62 of file SketchProject.java.

Member Function Documentation

Operation data_center.SketchProject.Operation.generateReversedOp ()

_

Definition at line 71 of file SketchProject.java.

Member Data Documentation

final int data_center.SketchProject.Operation.ADD = 1`[static]`

Add component, not bbkName or sth like that

Definition at line 41 of file SketchProject.java.

int data_center.SketchProject.Operation.attributeType

Definition at line 58 of file SketchProject.java.

Object data_center.SketchProject.Operation.following = null

Definition at line 60 of file SketchProject.java.

int data_center.SketchProject.Operation.ID

Definition at line 56 of file SketchProject.java.

final int data_center.SketchProject.Operation.MODIFY = 3`[static]`

Definition at line 44 of file SketchProject.java.

int data_center.SketchProject.Operation.operationType

_

Definition at line 57 of file SketchProject.java.

Object data_center.SketchProject.Operation.previous = null

Definition at line 59 of file SketchProject.java.

final int data_center.SketchProject.Operation.REMOVE = 2 [static]

Remove component, not bbkName or sth like that

Definition at line 43 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_CENTER = 2 [static]

Definition at line 49 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_COLOR = 4 [static]

Definition at line 51 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_COMPONENT = 0 [static]

Definition at line 47 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_FONT = 3 [static]

Definition at line 50 of file SketchProject.java.

_

final int data_center.SketchProject.Operation.TYPE_NULL = -1 `[static]`

Definition at line 53 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_SIZE = 5 `[static]`

Definition at line 52 of file SketchProject.java.

final int data_center.SketchProject.Operation.TYPE_STRING = 1 `[static]`

Definition at line 48 of file SketchProject.java.

The documentation for this class was generated from the following file:

SketchProject.java

_

data_center.BbkProperties.Parameter Class Reference

Inheritance diagram for data_center.BbkProperties.Parameter:
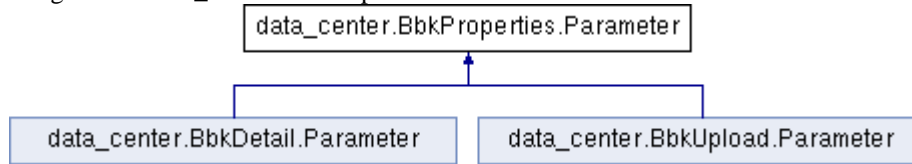
Public Member Functions

Parameter ()
Parameter (ResultSet resultSet)   throws SQLException

Public Attributes

String name
String value
String units
String url
String ID
String m_date
String userID
String userName

Detailed Description

Definition at line 64 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.Parameter.Parameter ()

Definition at line 75 of file BbkProperties.java.

data_center.BbkProperties.Parameter.Parameter (ResultSet *resultSet*) throws SQLException

Definition at line 77 of file BbkProperties.java.

_

Member Data Documentation

String data_center.BbkProperties.Parameter.ID

    Definition at line 70 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.m_date

    Definition at line 71 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.name

    Definition at line 66 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.units

    Definition at line 68 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.url

    Definition at line 69 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.userID

    Definition at line 72 of file BbkProperties.java.

_

String data_center.BbkProperties.Parameter.userName

Definition at line 73 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.value

Definition at line 67 of file BbkProperties.java.

The documentation for this class was generated from the following file:
BbkProperties.java

_

data_center.DBConsts.Header.Parameter Class Reference

Static Public Attributes

static final String [NAME](#) = "name"
static final String [VALUE](#) = "value"
static final String [UNITS](#) = "units"
static final String [URL](#) = "url"
static final String [ID](#) = "id"
static final String [M_DATE](#) = "m_date"
static final String [USER_ID](#) = "user_id"
static final String [USER_NAME](#) = "user_name"

Detailed Description

Definition at line 118 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.Parameter.ID = "id"`[static]`

Definition at line 124 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.M_DATE = "m_date"`[static]`

Definition at line 125 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.NAME = "name"`[static]`

Definition at line 120 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.UNITS = "units"`[static]`

_

Definition at line 122 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.URL = "url" `[static]`

Definition at line 123 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.USER_ID = "user_id" `[static]`

Definition at line 126 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.USER_NAME = "user_name" `[static]`

Definition at line 127 of file DBConsts.java.

final String data_center.DBConsts.Header.Parameter.VALUE = "value" `[static]`

Definition at line 121 of file DBConsts.java.

The documentation for this class was generated from the following file:
DBConsts.java

–

data_center.BbkDetail.Parameter Class Reference

Inheritance diagram for data_center.BbkDetail.Parameter:
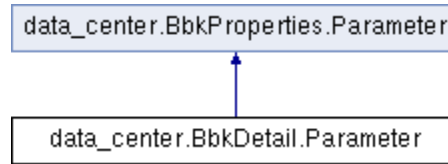
Public Member Functions

[Parameter](#) (ResultSet resultSet)   throws SQLException

Public Attributes

String [name](#)
String [value](#)
String [units](#)
String [url](#)
String [ID](#)
String [m_date](#)
String [userID](#)
String [userName](#)

Detailed Description

Definition at line 45 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.Parameter.Parameter (ResultSet *resultSet*) throws SQLException

Definition at line 47 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.Parameter.ID `[inherited]`

Definition at line 70 of file BbkProperties.java.

_

String data_center.BbkProperties.Parameter.m_date`[inherited]`

Definition at line 71 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.name`[inherited]`

Definition at line 66 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.units`[inherited]`

Definition at line 68 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.url`[inherited]`

Definition at line 69 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.userID`[inherited]`

Definition at line 72 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.userName`[inherited]`

Definition at line 73 of file BbkProperties.java.

_

String data_center.BbkProperties.Parameter.value`[inherited]`

Definition at line 67 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkDetail.java

_

data_center.BbkUpload.Parameter Class Reference

Inheritance diagram for data_center.BbkUpload.Parameter:

Public Member Functions

Parameter (String name, String value, String units, String url, String ID, String userName)
Parameter (ResultSet resultSet)   throws SQLException

Public Attributes

String name
String value
String units
String url
String ID
String m_date
String userID
String userName

Detailed Description

Definition at line 162 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.Parameter.Parameter (String *name*, String *value*, String *units*, String *url*, String *ID*, String *userName*)

Definition at line 164 of file BbkUpload.java.

data_center.BbkUpload.Parameter.Parameter (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 179 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkProperties.Parameter.ID`[inherited]`

Definition at line 70 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.m_date`[inherited]`

Definition at line 71 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.name`[inherited]`

Definition at line 66 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.units`[inherited]`

Definition at line 68 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.url`[inherited]`

Definition at line 69 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.userID`[inherited]`

Definition at line 72 of file BbkProperties.java.

_

String data_center.BbkProperties.Parameter.userName`[inherited]`

Definition at line 73 of file BbkProperties.java.

String data_center.BbkProperties.Parameter.value`[inherited]`

Definition at line 67 of file BbkProperties.java.

The documentation for this class was generated from the following file:
BbkUpload.java

_

data_center.BbkType.Sketch.Protein Class Reference

Static Public Attributes

static final int [FACTOR](#) = 0
static final int [RECEPTER](#) = 1

Detailed Description

Definition at line 62 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.Protein.FACTOR = 0 `[static]`

Definition at line 64 of file BbkType.java.

final int data_center.BbkType.Sketch.Protein.RECEPTER = 1 `[static]`

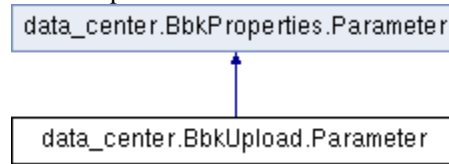Definition at line 65 of file BbkType.java.

The documentation for this class was generated from the following file:

[BbkType.java](#)

_

data_center.SketchComponent.Protein Class Reference

Inheritance diagram for data_center.SketchComponent.Protein:

data_center.SketchComponent.Component

data_center.SketchComponent.Protein
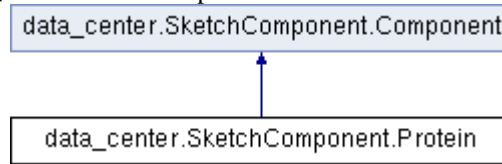
Public Member Functions

Protein (int theID, int secondaryType, Point center, Color color)
Protein toSubclass ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
Point getCenter ()
void setCenter (Point pos)
Color getColor ()
void setColor (Color color)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
String getString ()
void setString (String str)
Font getFont ()
void setFont (Font font)
Double getSize ()
void setSize (double size)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)

Public Attributes

int secondaryType
Point center
Color color
int ID
String primaryType

Detailed Description

Definition at line 243 of file SketchComponent.java.

–

Constructor & Destructor Documentation

data_center.SketchComponent.Protein.Protein (int *theID*, int *secondaryType*, Point *center*, Color *color*)

Definition at line 250 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.Protein.display ()

Definition at line 287 of file SketchComponent.java.

Point data_center.SketchComponent.Protein.getCenter ()

Definition at line 272 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()`[inherited]`
bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

Color data_center.SketchComponent.Protein.getColor ()

Definition at line 280 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Component.getCurve ()`[inherited]`

_

Definition at line 82 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()`[inherited]`

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.Protein.getSecondaryType ()

Definition at line 264 of file SketchComponent.java.

Double data_center.SketchComponent.Component.getSize ()`[inherited]`
length in [BackBone](#), thickness in [Relation](#) and scale in [BioVector](#)

Definition at line 77 of file SketchComponent.java.

String data_center.SketchComponent.Component.getString ()`[inherited]`
text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 55 of file SketchComponent.java.

void data_center.SketchComponent.Protein.setCenter (Point *pos*)

Definition at line 276 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)`[inherited]`

_

Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.Protein.setColor (Color *color*)

Definition at line 284 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)`[inherited]`

Definition at line 85 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)`[inherited]`

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.Protein.setSecondaryType (Integer *type*)

Definition at line 268 of file SketchComponent.java.

void data_center.SketchComponent.Component.setSize (double *size*)`[inherited]`

Definition at line 80 of file SketchComponent.java.

void data_center.SketchComponent.Component.setString (String *str*)`[inherited]`
text for [Label](), and bbkName for [BioBrick]()

Definition at line 59 of file SketchComponent.java.

_

BackBone data_center.SketchComponent.Component.toBackBone ()`[inherited]`

Definition at line 35 of file SketchComponent.java.

BioBrick data_center.SketchComponent.Component.toBioBrick ()`[inherited]`

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()`[inherited]`

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()`[inherited]`

Definition at line 26 of file SketchComponent.java.

Protein data_center.SketchComponent.Component.toProtein ()`[inherited]`

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

_

[Protein](#) data_center.SketchComponent.Protein.toSubclass ()

Definition at line 260 of file SketchComponent.java.

Member Data Documentation

Point data_center.SketchComponent.Protein.center

Definition at line 246 of file SketchComponent.java.

Color data_center.SketchComponent.Protein.color

Definition at line 247 of file SketchComponent.java.

int data_center.SketchComponent.Component.ID `[inherited]`

Definition at line 12 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType `[inherited]`

Definition at line 13 of file SketchComponent.java.

int data_center.SketchComponent.Protein.secondaryType

Definition at line 245 of file SketchComponent.java.

_

The documentation for this class was generated from the following file:

SketchComponent.java

data_center.BbkOutline.Rating Class Reference

Public Member Functions

Rating (ResultSet resultSet)   throws SQLException
int getScore ()
int getScore (double status_weight, double quality_weight, double feedbacks_weight, double publication_weight)
void display ()

Public Attributes

String rating
String status
String quality
String feedbacks
String publication
String delete_this_part
String tot_confirmed
String detail_not_confirmed
String average_stars
String tot_commets
String google_items
String first_url

Detailed Description

The rating by EasyBbk, evaluation criteria from both official web page and criteria by SJTU-software.

Definition at line 77 of file BbkOutline.java.

Constructor & Destructor Documentation

data_center.BbkOutline.Rating.Rating (ResultSet *resultSet*) throws SQLException

Definition at line 93 of file BbkOutline.java.

Member Function Documentation

void data_center.BbkOutline.Rating.display ()

Print main attributes in cmd for testing.

_

Definition at line 134 of file BbkOutline.java.

int data_center.BbkOutline.Rating.getScore ()

Definition at line 110 of file BbkOutline.java.

int data_center.BbkOutline.Rating.getScore (double *status_weight*, double *quality_weight*, double *feedbacks_weight*, double *publication_weight*)

Definition at line 118 of file BbkOutline.java.

Member Data Documentation

String data_center.BbkOutline.Rating.average_stars

Definition at line 88 of file BbkOutline.java.

String data_center.BbkOutline.Rating.delete_this_part

Definition at line 85 of file BbkOutline.java.

String data_center.BbkOutline.Rating.detail_not_confirmed

Definition at line 87 of file BbkOutline.java.

String data_center.BbkOutline.Rating.feedbacks

_

Definition at line 82 of file BbkOutline.java.

String data_center.BbkOutline.Rating.first_url

Definition at line 91 of file BbkOutline.java.

String data_center.BbkOutline.Rating.google_items

Definition at line 90 of file BbkOutline.java.

String data_center.BbkOutline.Rating.publication

Definition at line 83 of file BbkOutline.java.

String data_center.BbkOutline.Rating.quality

Definition at line 81 of file BbkOutline.java.

String data_center.BbkOutline.Rating.rating

Definition at line 79 of file BbkOutline.java.

String data_center.BbkOutline.Rating.status

Definition at line 80 of file BbkOutline.java.

_

String data_center.BbkOutline.Rating.tot_commets

Definition at line 89 of file BbkOutline.java.

String data_center.BbkOutline.Rating.tot_confirmed

Definition at line 86 of file BbkOutline.java.

The documentation for this class was generated from the following file:
BbkOutline.java

data_center.DBConsts.Rating Class Reference

Static Public Attributes

static final double <u>STATUS_DEFAULT_WEIGHT</u> = 0.2
static final double <u>QUALITY_DEFAULT_WEIGHT</u> = 0.12
static final double <u>FEEDBACKS_DEFAULT_WEIGHT</u> = 0.48
static final double <u>PUBLICATION_DEFAULT_WEIGHT</u> = 0.2
static final double <u>STATUS_TOTAL_POINTS</u> = 1
static final double <u>QUALITY_TOTAL_POINTS</u> = 0.6
static final double <u>FEEDBACKS_TOTAL_POINTS</u> = 2.4
static final double <u>PUBLICATION_TOTAL_POINTS</u> = 1
static final double <u>TOTAL_POINTS</u> = 5

Detailed Description

Store the total score and default weight set in database

Definition at line 32 of file DBConsts.java.

Member Data Documentation

final double data_center.DBConsts.Rating.FEEDBACKS_DEFAULT_WEIGHT = 0.48 `[static]`

Definition at line 37 of file DBConsts.java.

final double data_center.DBConsts.Rating.FEEDBACKS_TOTAL_POINTS = 2.4 `[static]`

Definition at line 43 of file DBConsts.java.

final double data_center.DBConsts.Rating.PUBLICATION_DEFAULT_WEIGHT = 0.2 `[static]`

Definition at line 38 of file DBConsts.java.

_

final double data_center.DBConsts.Rating.PUBLICATION_TOTAL_POINTS = 1 `[static]`

Definition at line 44 of file DBConsts.java.

final double data_center.DBConsts.Rating.QUALITY_DEFAULT_WEIGHT = 0.12 `[static]`

Definition at line 36 of file DBConsts.java.

final double data_center.DBConsts.Rating.QUALITY_TOTAL_POINTS = 0.6 `[static]`

Definition at line 42 of file DBConsts.java.

final double data_center.DBConsts.Rating.STATUS_DEFAULT_WEIGHT = 0.2 `[static]`

Definition at line 35 of file DBConsts.java.

final double data_center.DBConsts.Rating.STATUS_TOTAL_POINTS = 1 `[static]`

Definition at line 41 of file DBConsts.java.

final double data_center.DBConsts.Rating.TOTAL_POINTS = 5 `[static]`

Definition at line 46 of file DBConsts.java.

_

The documentation for this class was generated from the following file:

DBConsts.java

data_center.BbkType.Sketch.Relation Class Reference

Static Public Attributes

static final int [PROMOTE](#) = 1
static final int [SUPPRESS](#) = 2
static final int [OTHER](#) = 0

Detailed Description

Definition at line 74 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.Relation.OTHER = 0 `[static]`

Definition at line 78 of file BbkType.java.

final int data_center.BbkType.Sketch.Relation.PROMOTE = 1 `[static]`

Definition at line 76 of file BbkType.java.

final int data_center.BbkType.Sketch.Relation.SUPPRESS = 2 `[static]`

Definition at line 77 of file BbkType.java.

The documentation for this class was generated from the following file:

[BbkType.java](#)

data_center.SketchComponent.Relation Class Reference

Inheritance diagram for data_center.SketchComponent.Relation:

Public Member Functions

Relation (int theID, int secondaryType, ArrayList< Point > list, Color color, int thickness)
Relation toSubclass ()
Integer getSecondaryType ()
void setSecondaryType (Integer type)
ArrayList< Point > getCurve ()
void setCurve (ArrayList< Point > curve)
Color getColor ()
void setColor (Color color)
Double getSize ()
void setSize (double thickness)
void display ()
Label toLabel ()
BioBrick toBioBrick ()
Protein toProtein ()
BackBone toBackBone ()
Relation toRelation ()
BioVector toBioVictor ()
String getString ()
void setString (String str)
Point getCenter ()
void setCenter (Point center)
Font getFont ()
void setFont (Font font)
ArrayList< Integer > getChildren ()
void setChildren (ArrayList< Integer > children)

Public Attributes

int secondaryType
ArrayList< Point > posList
Color color
int thickness
int ID
String primaryType

Detailed Description

Definition at line 358 of file SketchComponent.java.

–

Constructor & Destructor Documentation

data_center.SketchComponent.Relation.Relation (int *theID*, int *secondaryType*, ArrayList< Point > *list*, Color *color*, int *thickness*)

Definition at line 365 of file SketchComponent.java.

Member Function Documentation

void data_center.SketchComponent.Relation.display ()

Definition at line 411 of file SketchComponent.java.

Point data_center.SketchComponent.Component.getCenter ()`[inherited]`

Definition at line 61 of file SketchComponent.java.

ArrayList<Integer> data_center.SketchComponent.Component.getChildren ()`[inherited]`

bbkChildren in backBone, the IDs

Definition at line 88 of file SketchComponent.java.

Color data_center.SketchComponent.Relation.getColor ()

Definition at line 396 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Relation.getCurve ()

_

Definition at line 388 of file SketchComponent.java.

Font data_center.SketchComponent.Component.getFont ()`[inherited]`

Definition at line 66 of file SketchComponent.java.

Integer data_center.SketchComponent.Relation.getSecondaryType ()

Definition at line 380 of file SketchComponent.java.

Double data_center.SketchComponent.Relation.getSize ()

Definition at line 404 of file SketchComponent.java.

String data_center.SketchComponent.Component.getString ()`[inherited]`
text for [Label], and bbkName for [BioBrick]

Definition at line 55 of file SketchComponent.java.

void data_center.SketchComponent.Component.setCenter (Point *center*)`[inherited]`

Definition at line 64 of file SketchComponent.java.

void data_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)`[inherited]`

_

Definition at line 91 of file SketchComponent.java.

void data_center.SketchComponent.Relation.setColor (Color *color*)

Definition at line 400 of file SketchComponent.java.

void data_center.SketchComponent.Relation.setCurve (ArrayList< Point > *curve*)

Definition at line 392 of file SketchComponent.java.

void data_center.SketchComponent.Component.setFont (Font *font*)`[inherited]`

Definition at line 69 of file SketchComponent.java.

void data_center.SketchComponent.Relation.setSecondaryType (Integer *type*)

Definition at line 384 of file SketchComponent.java.

void data_center.SketchComponent.Relation.setSize (double *thickness*)

Definition at line 408 of file SketchComponent.java.

void data_center.SketchComponent.Component.setString (String *str*)`[inherited]`
text for [Label](), and bbkName for [BioBrick]()

Definition at line 59 of file SketchComponent.java.

_

BackBone data_center.SketchComponent.Component.toBackBone ()`[inherited]`

Definition at line 35 of file SketchComponent.java.

BioBrick data_center.SketchComponent.Component.toBioBrick ()`[inherited]`

Definition at line 29 of file SketchComponent.java.

BioVector data_center.SketchComponent.Component.toBioVictor ()`[inherited]`

Definition at line 41 of file SketchComponent.java.

Label data_center.SketchComponent.Component.toLabel ()`[inherited]`

Definition at line 26 of file SketchComponent.java.

Protein data_center.SketchComponent.Component.toProtein ()`[inherited]`

Definition at line 32 of file SketchComponent.java.

Relation data_center.SketchComponent.Component.toRelation ()`[inherited]`

Definition at line 38 of file SketchComponent.java.

_

[Relation](#) data_center.SketchComponent.Relation.toSubclass ()

       Definition at line 376 of file SketchComponent.java.

Member Data Documentation

Color data_center.SketchComponent.Relation.color

       Definition at line 362 of file SketchComponent.java.

int data_center.SketchComponent.Component.ID`[inherited]`

       Definition at line 12 of file SketchComponent.java.

ArrayList<Point> data_center.SketchComponent.Relation.posList

       Definition at line 361 of file SketchComponent.java.

String data_center.SketchComponent.Component.primaryType`[inherited]`

       Definition at line 13 of file SketchComponent.java.

int data_center.SketchComponent.Relation.secondaryType

       Definition at line 360 of file SketchComponent.java.

_

int data_center.SketchComponent.Relation.thickness

Definition at line 363 of file SketchComponent.java.

The documentation for this class was generated from the following file:

SketchComponent.java

_

data_center.SearchCenter Class Reference

Public Member Functions

SearchCenter ()
boolean canRollBack ()
boolean canGoForward ()
SearchResultList getCurrentRawSearchResultList ()
SearchResultList search (String keyword)
SearchResultList blast (String input, int mode)
BbkDetail getDetail (String bbkName)
SearchResultList rollBack ()
SearchResultList goForward ()

Public Attributes

HistoryList< SearchResultList > historyList

Detailed Description

Provide functions about searching database by SJTU-software. Can search by keyword, blast by sequence, get detail by name.

Definition at line 5 of file SearchCenter.java.

Constructor & Destructor Documentation

data_center.SearchCenter.SearchCenter ()

Definition at line 9 of file SearchCenter.java.

Member Function Documentation

SearchResultList data_center.SearchCenter.blast (String *input*, int *mode*)

Definition at line 38 of file SearchCenter.java.

_

boolean data_center.SearchCenter.canGoForward ()

Definition at line 20 of file SearchCenter.java.

boolean data_center.SearchCenter.canRollBack ()

Definition at line 15 of file SearchCenter.java.

SearchResultList data_center.SearchCenter.getCurrentRawSearchResultList ()

Definition at line 26 of file SearchCenter.java.

[BbkDetail](#) data_center.SearchCenter.getDetail (String *bbkName*)

Definition at line 45 of file SearchCenter.java.

SearchResultList data_center.SearchCenter.goForward ()

Definition at line 55 of file SearchCenter.java.

SearchResultList data_center.SearchCenter.rollBack ()

Definition at line 50 of file SearchCenter.java.

_

SearchResultList data_center.SearchCenter.search (String *keyword*)

Definition at line 31 of file SearchCenter.java.

Member Data Documentation

HistoryList<SearchResultList> data_center.SearchCenter.historyList

Definition at line 7 of file SearchCenter.java.

The documentation for this class was generated from the following file:
SearchCenter.java

_

data_center.BbkType.Sketch Class Reference

Classes

class [BackBone](#)
class [BioBrick](#)
class [Protein](#)
class [Relation](#)
class [Vector](#)

Static Public Attributes

static final int [LABEL](#) = 1
static final int [BIO_BRICK](#) = 2
static final int [PROTEIN](#) = 3
static final int [BACKBONE](#) = 4
static final int [RELATION](#) = 5
static final int [VECTOR](#) = 6

Detailed Description

The types defined in the sketch function in EasyBbk.

Definition at line 43 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.BACKBONE = 4 `[static]`

Definition at line 48 of file BbkType.java.

final int data_center.BbkType.Sketch.BIO_BRICK = 2 `[static]`

Definition at line 46 of file BbkType.java.

final int data_center.BbkType.Sketch.LABEL = 1 `[static]`

Definition at line 45 of file BbkType.java.

_

final int data_center.BbkType.Sketch.PROTEIN = 3`[static]`

Definition at line 47 of file BbkType.java.

final int data_center.BbkType.Sketch.RELATION = 5`[static]`

Definition at line 49 of file BbkType.java.

final int data_center.BbkType.Sketch.VECTOR = 6`[static]`

Definition at line 50 of file BbkType.java.

The documentation for this class was generated from the following file:
   BbkType.java

_

data_center.SketchCenter Class Reference

Public Member Functions

SketchProject switchCurrentProjectTo (String projectName)
SketchProject newProject ()
void closeProject (String projectName)
void saveProject (String filePath)
SketchProject loadProject (String filePath)
String[] getAllProjectNames ()
BbkOutline assignBbkOutlineToBioBrick (String bbkName, BioBrick biobrick)
BbkUpload generateBbkUploadFromBackBone (BackBone backbone)

Public Attributes

SketchProject currentProject = null
ArrayList< SketchProject > projectList = new ArrayList<SketchProject>()

Detailed Description

This class contains all of the operations of the sketch project. Further operation inside a project can be accessed by the reference of a SketchProject instance. Please note that the new, save, load all aim at the current project, which need no specification of the project name of its reference. To operate on another project? you may use the switchCurrentProjectTo() function.

Definition at line 13 of file SketchCenter.java.

Member Function Documentation

BbkOutline data_center.SketchCenter.assignBbkOutlineToBioBrick (String *bbkName*, BioBrick *biobrick*)

Assign a BbkOutline to a SketchComponent.BioBrick, specified by part_name. If the database doesn't have such name, a null will be returned.

Definition at line 80 of file SketchCenter.java.

void data_center.SketchCenter.closeProject (String *projectName*)

Close a project which can be either current project or not. Pass a null to represent current project.

Definition at line 40 of file SketchCenter.java.

_

BbkUpload data_center.SketchCenter.generateBbkUploadFromBackBone (BackBone backbone)

Upload the newly designed biobrick to the database by SJTU-software! This function generates a BbkUpload instance to start this process.

Definition at line 88 of file SketchCenter.java.

String [] data_center.SketchCenter.getAllProjectNames ()

Definition at line 70 of file SketchCenter.java.

SketchProject data_center.SketchCenter.loadProject (String *filePath*)

Load a project that will OVERWRITE CURRENT project

Definition at line 64 of file SketchCenter.java.

SketchProject data_center.SketchCenter.newProject ()

Definition at line 31 of file SketchCenter.java.

void data_center.SketchCenter.saveProject (String *filePath*)

Save the CURRENT project

Definition at line 56 of file SketchCenter.java.

SketchProject data_center.SketchCenter.switchCurrentProjectTo (String *projectName*)

Switch current project to a new one to execute new, save, load operation on it.

Definition at line 20 of file SketchCenter.java.

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Member Data Documentation

SketchProject data_center.SketchCenter.currentProject = null

Definition at line 15 of file SketchCenter.java.

ArrayList<SketchProject> data_center.SketchCenter.projectList = new ArrayList<SketchProject>()

Definition at line 16 of file SketchCenter.java.

The documentation for this class was generated from the following file:

SketchCenter.java

_

data_center.SketchComponent Class Reference

Classes

class [BackBone](#)
class [BioBrick](#)
class [BioVector](#)
class [Component](#)
class [Label](#)
class [Protein](#)
class [Relation](#)

Detailed Description

Definition at line 8 of file SketchComponent.java.

The documentation for this class was generated from the following file:
[SketchComponent.java](#)

_

data_center.SketchProject Class Reference

Classes

class Operation

Public Member Functions

SketchProject (String name)
Component findComponentByID (int ID)
BackBone findBackBoneInBackBoneListByID (int ID)
void addComponent (Component component)
void delComponent (Component component)
void modifyComponent (int theID, int attributeType, Object folAttribute)
void onAbsorb (int backBoneID, int bbkID, int index)
void onDesorb (int backBoneID, int bbkID)
Operation ctrlZ ()
Operation ctrlY ()
void displayComponents ()
void saveIntoFile (String filePath)
void loadFromFile (String filePath)
void SaveIntoFile (String filePath, ArrayList< Component > List3)
ArrayList< Component > LoadFromFile (String filePath)   throws Exception

Static Public Member Functions

static void callWriteXmlFile (Document doc, Writer w, String encoding)

Public Attributes

String name
ArrayList< Component > componentList = new ArrayList<Component>()
ArrayList< BackBone > backBoneList = new ArrayList<BackBone>()
HistoryList< Operation > operationHistory = new HistoryList<Operation>()
boolean modified = false

Detailed Description

This class provides project operations include add, remove, modify components, ctrlZ, ctrlY function and save & load.

Definition at line 36 of file SketchProject.java.

Constructor & Destructor Documentation

data_center.SketchProject.SketchProject (String *name*)

Definition at line 125 of file SketchProject.java.

_

Member Function Documentation

void data_center.SketchProject.addComponent (Component *component*)

Registration function, receive the user operation and remember it in the backstage.

Definition at line 151 of file SketchProject.java.

static void data_center.SketchProject.callWriteXmlFile (Document *doc*, Writer *w*, String *encoding*)[static]

Definition at line 585 of file SketchProject.java.

Operation data_center.SketchProject.ctrlY ()

Guidance function, guide the GUI the operation from the history list. No registration is needed since the operation is not read from the user.

Definition at line 246 of file SketchProject.java.

Operation data_center.SketchProject.ctrlZ ()

Guidance function, guide the GUI the operation from the history list. No registration is needed since the operation is not read from the user.

Definition at line 232 of file SketchProject.java.

void data_center.SketchProject.delComponent (Component *component*)

Registration function, receive the user operation and remember it in the backstage.

Definition at line 164 of file SketchProject.java.

void data_center.SketchProject.displayComponents ()

Definition at line 257 of file SketchProject.java.

BackBone data_center.SketchProject.findBackBoneInBackBoneListByID (int *ID*)

Definition at line 140 of file SketchProject.java.

Component data_center.SketchProject.findComponentByID (int *ID*)

Definition at line 131 of file SketchProject.java.

void data_center.SketchProject.loadFromFile (String *filePath*)

Load the project graph from XML file, note that the project.name will be specified after the file name.

Definition at line 364 of file SketchProject.java.

ArrayList<Component> data_center.SketchProject.LoadFromFile (String *filePath*) throws Exception

Definition at line 813 of file SketchProject.java.

void data_center.SketchProject.modifyComponent (int *theID*, int *attributeType*, Object *folAttribute*)

Registration function, receive the user operation and remember it in the backstage. The attributeType should be picked from Operation.TYPE_XXX. The folAttribute is the attribute changed into, such as Point, Color

Definition at line 178 of file SketchProject.java.

_

void data_center.SketchProject.onAbsorb (int *backBoneID*, int *bbkID*, int *index*)

Registration function, receive the user operation and remember it in the backstage.

Definition at line 207 of file SketchProject.java.

void data_center.SketchProject.onDesorb (int *backBoneID*, int *bbkID*)

Registration function, receive the user operation and remember it in the backstage.

Definition at line 218 of file SketchProject.java.

void data_center.SketchProject.saveIntoFile (String *filePath*)

Save the project graph into XML file, note that the project.name will be specified after the file name.

Definition at line 329 of file SketchProject.java.

void data_center.SketchProject.SaveIntoFile (String *filePath*, ArrayList< Component > *List3*)

Definition at line 600 of file SketchProject.java.

Member Data Documentation

ArrayList<[BackBone](#)> data_center.SketchProject.backBoneList = new ArrayList<[BackBone](#)>()

Definition at line 119 of file SketchProject.java.

–

ArrayList<Component> data_center.SketchProject.componentList = new ArrayList<Component>()

Definition at line 118 of file SketchProject.java.

boolean data_center.SketchProject.modified = false

Definition at line 122 of file SketchProject.java.

String data_center.SketchProject.name

Definition at line 116 of file SketchProject.java.

HistoryList<Operation> data_center.SketchProject.operationHistory = new HistoryList<Operation>()

Definition at line 120 of file SketchProject.java.

The documentation for this class was generated from the following file:

SketchProject.java

data_center.BbkProperties.SpecifiedSubpart Class Reference

Inheritance diagram for data_center.BbkProperties.SpecifiedSubpart:

```
┌──────────────────────────────────────────────┐
│   data_center.BbkProperties.SpecifiedSubpart  │
└──────────────────────────────────────────────┘
                        ▲
         ┌──────────────┴──────────────┐
┌────────────────────────────┐ ┌────────────────────────────┐
│ data_center.BbkDetail.     │ │ data_center.BbkUpload.     │
│ SpecifiedSubpart           │ │ SpecifiedSubpart           │
└────────────────────────────┘ └────────────────────────────┘
```

Public Member Functions

SpecifiedSubpart ()
SpecifiedSubpart (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String name
String shortDesc
String type
String nickname

Detailed Description

Definition at line 90 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.SpecifiedSubpart.SpecifiedSubpart ()

Definition at line 98 of file BbkProperties.java.

data_center.BbkProperties.SpecifiedSubpart.SpecifiedSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 100 of file BbkProperties.java.

_

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubpart.ID

Definition at line 92 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.name

Definition at line 93 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.nickname

Definition at line 96 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.shortDesc

Definition at line 94 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.type

Definition at line 95 of file BbkProperties.java.

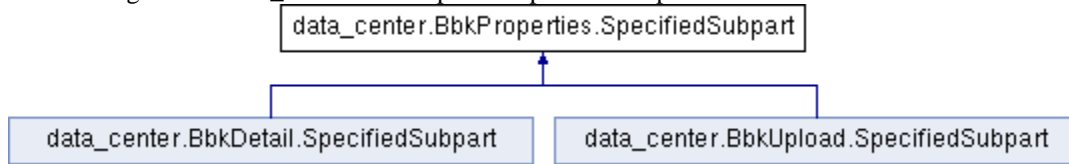**The documentation for this class was generated from the following file:**
BbkProperties.java

_

data_center.BbkDetail.SpecifiedSubpart Class Reference

Inheritance diagram for data_center.BbkDetail.SpecifiedSubpart:

Public Member Functions

SpecifiedSubpart (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String name
String shortDesc
String type
String nickname

Detailed Description

Definition at line 51 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.SpecifiedSubpart.SpecifiedSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 53 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubpart.ID `[inherited]`

Definition at line 92 of file BbkProperties.java.

–

String data_center.BbkProperties.SpecifiedSubpart.name `[inherited]`

Definition at line 93 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.nickname `[inherited]`

Definition at line 96 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.shortDesc `[inherited]`

Definition at line 94 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.type `[inherited]`

Definition at line 95 of file BbkProperties.java.

The documentation for this class was generated from the following file:
BbkDetail.java

_

data_center.BbkUpload.SpecifiedSubpart Class Reference

Inheritance diagram for data_center.BbkUpload.SpecifiedSubpart:

```
┌─────────────────────────────────────────┐
│ data_center.BbkProperties.SpecifiedSubpart │
└─────────────────────────────────────────┘
                    ▲
                    │
┌─────────────────────────────────────────┐
│ data_center.BbkUpload.SpecifiedSubpart    │
└─────────────────────────────────────────┘
```

Public Member Functions

SpecifiedSubpart (BbkDetail bbkDetail)
SpecifiedSubpart (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String name
String shortDesc
String type
String nickname

Detailed Description

Definition at line 199 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.SpecifiedSubpart.SpecifiedSubpart (BbkDetail *bbkDetail*)

Data collected from main

Definition at line 202 of file BbkUpload.java.

data_center.BbkUpload.SpecifiedSubpart.SpecifiedSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 211 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubpart.ID`[inherited]`

Definition at line 92 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.name`[inherited]`

Definition at line 93 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.nickname`[inherited]`

Definition at line 96 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.shortDesc`[inherited]`

Definition at line 94 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubpart.type`[inherited]`

Definition at line 95 of file BbkProperties.java.

The documentation for this class was generated from the following file:
    BbkUpload.java

_

data_center.BbkUpload.SpecifiedSubscar Class Reference

Inheritance diagram for data_center.BbkUpload.SpecifiedSubscar:

```
data_center.BbkProperties.SpecifiedSubscar
                    ▲
                    │
data_center.BbkUpload.SpecifiedSubscar
```

Public Member Functions

SpecifiedSubscar ()
SpecifiedSubscar (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String standard
String type
String name
String nickname
String comments
String sequence

Detailed Description

Definition at line 215 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.SpecifiedSubscar.SpecifiedSubscar ()

Default subscar

Definition at line 218 of file BbkUpload.java.

data_center.BbkUpload.SpecifiedSubscar.SpecifiedSubscar (ResultSet *resultSet*) throws SQLException

Used to create a specified subscar instance. Can also fill data from database when modify uploaded bbk.

Definition at line 231 of file BbkUpload.java.

_

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubscar.comments`[inherited]`

Definition at line 117 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.ID`[inherited]`

Definition at line 112 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.name`[inherited]`

Definition at line 115 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.nickname`[inherited]`

Definition at line 116 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.sequence`[inherited]`

Definition at line 118 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.standard`[inherited]`

Definition at line 113 of file BbkProperties.java.

_

String data_center.BbkProperties.SpecifiedSubscar.type`[inherited]`

Definition at line 114 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkUpload.java

_

data_center.BbkProperties.SpecifiedSubscar Class Reference

Inheritance diagram for data_center.BbkProperties.SpecifiedSubscar:

Public Member Functions

SpecifiedSubscar ()
SpecifiedSubscar (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String standard
String type
String name
String nickname
String comments
String sequence

Detailed Description

Definition at line 110 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.SpecifiedSubscar.SpecifiedSubscar ()

Definition at line 120 of file BbkProperties.java.

data_center.BbkProperties.SpecifiedSubscar.SpecifiedSubscar (ResultSet *resultSet*) throws SQLException

Definition at line 122 of file BbkProperties.java.

_

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubscar.comments

Definition at line 117 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.ID

Definition at line 112 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.name

Definition at line 115 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.nickname

Definition at line 116 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.sequence

Definition at line 118 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.standard

Definition at line 113 of file BbkProperties.java.

_

String data_center.BbkProperties.SpecifiedSubscar.type

Definition at line 114 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkProperties.java

_

data_center.BbkDetail.SpecifiedSubscar Class Reference

Inheritance diagram for data_center.BbkDetail.SpecifiedSubscar:

Public Member Functions

SpecifiedSubscar (ResultSet resultSet)   throws SQLException

Public Attributes

String ID
String standard
String type
String name
String nickname
String comments
String sequence

Detailed Description

Definition at line 57 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.SpecifiedSubscar.SpecifiedSubscar (ResultSet *resultSet*) throws SQLException

Definition at line 59 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.SpecifiedSubscar.comments `[inherited]`

Definition at line 117 of file BbkProperties.java.

_

String data_center.BbkProperties.SpecifiedSubscar.ID`[inherited]`

Definition at line 112 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.name`[inherited]`

Definition at line 115 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.nickname`[inherited]`

Definition at line 116 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.sequence`[inherited]`

Definition at line 118 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.standard`[inherited]`

Definition at line 113 of file BbkProperties.java.

String data_center.BbkProperties.SpecifiedSubscar.type`[inherited]`

Definition at line 114 of file BbkProperties.java.

_

The documentation for this class was generated from the following file:

BbkDetail.java

_

data_center.DBConsts.Header.SpecScar Class Reference

Static Public Attributes

static final String <u>ID</u> = "scar_id"
static final String <u>STANDARD</u> = "scar_standard"
static final String <u>TYPE</u> = "scar_type"
static final String <u>NAME</u> = "scar_name"
static final String <u>NICK_NAME</u> = "scar_nickname"
static final String <u>COMMENTS</u> = "scar_comments"
static final String <u>SEQUENCE</u> = "scar_sequence"

Detailed Description

Definition at line 130 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.SpecScar.COMMENTS = "scar_comments" `[static]`

Definition at line 137 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecScar.ID = "scar_id" `[static]`

Definition at line 132 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecScar.NAME = "scar_name" `[static]`

Definition at line 135 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecScar.NICK_NAME = "scar_nickname" `[static]`

_

Definition at line 136 of file DBConsts.java.

**final String data_center.DBConsts.Header.SpecScar.SEQUENCE =
"scar_sequence"`[static]`**

Definition at line 138 of file DBConsts.java.

**final String data_center.DBConsts.Header.SpecScar.STANDARD =
"scar_standard"`[static]`**

Definition at line 133 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecScar.TYPE = "scar_type"`[static]`

Definition at line 134 of file DBConsts.java.

The documentation for this class was generated from the following file:
DBConsts.java

_

data_center.DBConsts.Header.SpecSub Class Reference

Static Public Attributes

static final String [ID](#) = "subpart_id"
static final String [NAME](#) = "subpart_name"
static final String [SHORT_DESC](#) = "subpart_short_desc"
static final String [TYPE](#) = "subpart_type"
static final String [NICKNAME](#) = "subpart_nickname"

Detailed Description

Definition at line 141 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.SpecSub.ID = "subpart_id"`[static]`

Definition at line 143 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecSub.NAME = "subpart_name"`[static]`

Definition at line 144 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecSub.NICKNAME = "subpart_nickname"`[static]`

Definition at line 147 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecSub.SHORT_DESC = "subpart_short_desc"`[static]`

_

Definition at line 145 of file DBConsts.java.

final String data_center.DBConsts.Header.SpecSub.TYPE = "subpart_type" `[static]`

Definition at line 146 of file DBConsts.java.

The documentation for this class was generated from the following file:
DBConsts.java

data_center.DBConsts.Table Class Reference

Static Public Attributes

static final String [MAIN](#) = "main"
static final String [CATEGORIES](#) = "categories"
static final String [DEEP_SUBPARTS](#) = "deep_subparts"
static final String [FEATURES](#) = "features"
static final String [PARAMETERS](#) = "parameters"
static final String [SPECIFIED_SUBPARTS](#) = "specified_subparts"
static final String [SPECIFIED_SUBSCARS](#) = "specified_subscars"
static final String [TWINS](#) = "twins"
static final String [MAIN_UPLOAD](#) = "main_upload"
static final String [CATEGORIES_UPLOAD](#) = "categories_upload"
static final String [DEEP_SUBPARTS_UPLOAD](#) = "deep_subparts_upload"
static final String [FEATURES_UPLOAD](#) = "features_upload"
static final String [PARAMETERS_UPLOAD](#) = "parameters_upload"
static final String [SPECIFIED_SUBPARTS_UPLOAD](#) = "specified_subparts_upload"
static final String [SPECIFIED_SUBSCARS_UPLOAD](#) = "specified_subscars_upload"
static final String [TWINS_UPLOAD](#) = "twins_upload"

Detailed Description

The table names in the database. Those with "_upload" is used to contain new biobricks uploaded by EasyBbk.

Definition at line 9 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Table.CATEGORIES = "categories" `[static]`

Definition at line 12 of file DBConsts.java.

final String data_center.DBConsts.Table.CATEGORIES_UPLOAD = "categories_upload" `[static]`

Definition at line 21 of file DBConsts.java.

_

final String data_center.DBConsts.Table.DEEP_SUBPARTS = "deep_subparts" `[static]`

Definition at line 13 of file DBConsts.java.

final String data_center.DBConsts.Table.DEEP_SUBPARTS_UPLOAD = "deep_subparts_upload" `[static]`

Definition at line 22 of file DBConsts.java.

final String data_center.DBConsts.Table.FEATURES = "features" `[static]`

Definition at line 14 of file DBConsts.java.

final String data_center.DBConsts.Table.FEATURES_UPLOAD = "features_upload" `[static]`

Definition at line 23 of file DBConsts.java.

final String data_center.DBConsts.Table.MAIN = "main" `[static]`

Definition at line 11 of file DBConsts.java.

final String data_center.DBConsts.Table.MAIN_UPLOAD = "main_upload" `[static]`

Definition at line 20 of file DBConsts.java.

_

final String data_center.DBConsts.Table.PARAMETERS = "parameters" `[static]`

Definition at line 15 of file DBConsts.java.

final String data_center.DBConsts.Table.PARAMETERS_UPLOAD = "parameters_upload" `[static]`

Definition at line 24 of file DBConsts.java.

final String data_center.DBConsts.Table.SPECIFIED_SUBPARTS = "specified_subparts" `[static]`

Definition at line 16 of file DBConsts.java.

final String data_center.DBConsts.Table.SPECIFIED_SUBPARTS_UPLOAD = "specified_subparts_upload" `[static]`

Definition at line 25 of file DBConsts.java.

final String data_center.DBConsts.Table.SPECIFIED_SUBSCARS = "specified_subscars" `[static]`

Definition at line 17 of file DBConsts.java.

final String data_center.DBConsts.Table.SPECIFIED_SUBSCARS_UPLOAD = "specified_subscars_upload" `[static]`

_

Definition at line 26 of file DBConsts.java.

final String data_center.DBConsts.Table.TWINS = "twins"`[static]`

Definition at line 18 of file DBConsts.java.

final String data_center.DBConsts.Table.TWINS_UPLOAD = "twins_upload"`[static]`

Definition at line 27 of file DBConsts.java.

The documentation for this class was generated from the following file:
DBConsts.java

_

data_center.TimeTagGenerator Class Reference

Static Public Member Functions

static String [generateYearMonthDateStr](#) ()
static String [generateHourMinStr](#) ()
static String [generateTimeTag](#) ()

Detailed Description

Used to generate time tag for [BlastingSearcher](#)(used to distinguish a blast request from another) and [BbkUpload](#)(used to record the enter date of the part into the database by SJTU-software)

Definition at line 8 of file TimeTagGenerator.java.

Member Function Documentation

static String data_center.TimeTagGenerator.generateHourMinStr ()`[static]`

Returns:
> Hour:Min

Definition at line 21 of file TimeTagGenerator.java.

static String data_center.TimeTagGenerator.generateTimeTag ()`[static]`

Returns:
> Time tag accurate to ms, no separators

Definition at line 30 of file TimeTagGenerator.java.

static String data_center.TimeTagGenerator.generateYearMonthDateStr ()`[static]`

Returns:
> Year/Month/Date

Definition at line 11 of file TimeTagGenerator.java.

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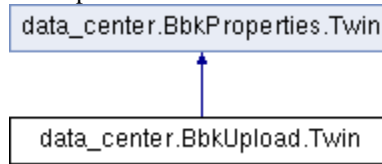**The documentation for this class was generated from the following file:**

TimeTagGenerator.java

data_center.BbkUpload.Twin Class Reference

Inheritance diagram for data_center.BbkUpload.Twin:

Public Member Functions

Twin ()
Twin (ResultSet resultSet)   throws SQLException

Public Attributes

String twin

Detailed Description

Definition at line 235 of file BbkUpload.java.

Constructor & Destructor Documentation

data_center.BbkUpload.Twin.Twin ()

Used when new a twin to fill in BbkDatabaseConnector.findTwinsBySequence. Avoiding conflict from the filling when modify uploaded bbk

Definition at line 239 of file BbkUpload.java.

data_center.BbkUpload.Twin.Twin (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 242 of file BbkUpload.java.

Member Data Documentation

String data_center.BbkProperties.Twin.twin `[inherited]`
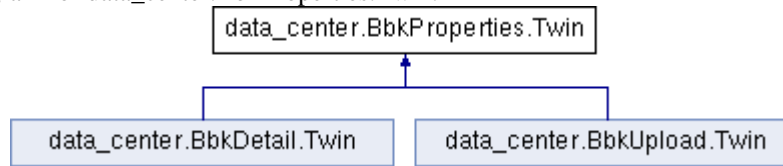
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Definition at line 136 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkUpload.java

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data_center.BbkProperties.Twin Class Reference

Inheritance diagram for data_center.BbkProperties.Twin:

Public Member Functions

Twin ()
Twin (ResultSet resultSet)   throws SQLException

Public Attributes

String twin

Detailed Description

Definition at line 134 of file BbkProperties.java.

Constructor & Destructor Documentation

data_center.BbkProperties.Twin.Twin ()

Definition at line 138 of file BbkProperties.java.

data_center.BbkProperties.Twin.Twin (ResultSet *resultSet*) throws SQLException

Definition at line 140 of file BbkProperties.java.

Member Data Documentation

String data_center.BbkProperties.Twin.twin
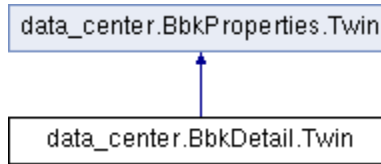
Definition at line 136 of file BbkProperties.java.

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The documentation for this class was generated from the following file:

BbkProperties.java

data_center.BbkDetail.Twin Class Reference

Inheritance diagram for data_center.BbkDetail.Twin:

Public Member Functions

Twin (ResultSet resultSet)   throws SQLException

Public Attributes

String twin

Detailed Description

Definition at line 63 of file BbkDetail.java.

Constructor & Destructor Documentation

data_center.BbkDetail.Twin.Twin (ResultSet *resultSet*) throws SQLException

Definition at line 65 of file BbkDetail.java.

Member Data Documentation

String data_center.BbkProperties.Twin.twin `[inherited]`

Definition at line 136 of file BbkProperties.java.

The documentation for this class was generated from the following file:

BbkDetail.java

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data_center.DBConsts.Header.Twin Class Reference

Static Public Attributes

static final String [TWIN](#) = "twin"

Detailed Description

Definition at line 150 of file DBConsts.java.

Member Data Documentation

final String data_center.DBConsts.Header.Twin.TWIN = "twin" `[static]`

Definition at line 152 of file DBConsts.java.

The documentation for this class was generated from the following file:
  [DBConsts.java](#)

_

data_center.UploadCenter Class Reference

Public Member Functions

UploadCenter ()
boolean isBbkNameNotOccupied (String rawName)
String uploadAndGetOddNum (BbkUpload bbkUpload)
BbkUpload getBbkUploadByNameAndOddNum (String name, String oddNum)
boolean isSequanceValid (String sequenceToken)
BbkDetail getSubpartForSequenceToken (String bbkName)
BbkUpload.SpecifiedSubscar getSubscarForSequenceToken (String scarName)

Detailed Description

Provide function used when uploading a biobrick into database by SJTU-software. Also include validation check of the part_name, sequence the subparts and the subscars to be filled into BbkUpload instance to be uploaded.

Definition at line 6 of file UploadCenter.java.

Constructor & Destructor Documentation

data_center.UploadCenter.UploadCenter ()

Definition at line 8 of file UploadCenter.java.

Member Function Documentation

BbkUpload data_center.UploadCenter.getBbkUploadByNameAndOddNum (String *name*, String *oddNum*)

Use the part_name and the oddNum to find a previously uploaded biobrick. The oddNum is stored as the part_id of an bbk

Definition at line 30 of file UploadCenter.java.

BbkDetail data_center.UploadCenter.getSubpartForSequenceToken (String *bbkName*)

Used for subpart validation check.

_

Returns:

null if no such part_name is found, thus it can't be a subpart.

Definition at line 49 of file UploadCenter.java.

BbkUpload.SpecifiedSubscar data_center.UploadCenter.getSubscarForSequenceToken (String *scarName*)

Used for subscar validation check.

Returns:

null if no such scar name is found, thus it can't be a subscar.

Definition at line 56 of file UploadCenter.java.

boolean data_center.UploadCenter.isBbkNameNotOccupied (String *rawName*)

rawName is also known as the shortName

Returns:

true for the name is not occupied, so that it can be used as the part_name to be uploaded.

Definition at line 13 of file UploadCenter.java.

boolean data_center.UploadCenter.isSequanceValid (String *sequenceToken*)

Check if the sequence string is only consist if base group, not other chars.

Definition at line 36 of file UploadCenter.java.

String data_center.UploadCenter.uploadAndGetOddNum (BbkUpload *bbkUpload*)

Upload a new biobrick and get the odd number used to modify it later. The oddNum is stored in the part_id of an biobrick.

Definition at line 23 of file UploadCenter.java.

The documentation for this class was generated from the following file:

UploadCenter.java

data_center.BbkType.Sketch.Vector Class Reference

Static Public Attributes

static final int [PLASMID]() = 0
static final int [VIRUS]() = 1
static final int [BACTERIA]() = 2
static final int [PLANT_CELL]() = 3
static final int [ANIMAL_CELL]() = 4

Detailed Description

Definition at line 81 of file BbkType.java.

Member Data Documentation

final int data_center.BbkType.Sketch.Vector.ANIMAL_CELL = 4 `[static]`

Definition at line 87 of file BbkType.java.

final int data_center.BbkType.Sketch.Vector.BACTERIA = 2 `[static]`

Definition at line 85 of file BbkType.java.

final int data_center.BbkType.Sketch.Vector.PLANT_CELL = 3 `[static]`

Definition at line 86 of file BbkType.java.

final int data_center.BbkType.Sketch.Vector.PLASMID = 0 `[static]`

Definition at line 83 of file BbkType.java.

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final int data_center.BbkType.Sketch.Vector.VIRUS = 1 `[static]`

Definition at line 84 of file BbkType.java.

The documentation for this class was generated from the following file:

BbkType.java

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File Documentation

BbkDetail.java File Reference

Classes

class data_center.BbkDetail
class data_center.BbkDetail.Category
class data_center.BbkDetail.DeepSubpart
class data_center.BbkDetail.Feature
class data_center.BbkDetail.Parameter
class data_center.BbkDetail.SpecifiedSubpart
class data_center.BbkDetail.SpecifiedSubscar
class data_center.BbkDetail.Twin

Packages

package data_center

_

BbkOutline.java File Reference

Classes

class data_center.BbkOutline
class data_center.BbkOutline.Rating
class data_center.BbkOutline.Blasting

Packages

package data_center

_

BbkProperties.java File Reference

Classes

class [data_center.BbkProperties](#)
class [data_center.BbkProperties.Category](#)
class [data_center.BbkProperties.DeepSubpart](#)
class [data_center.BbkProperties.Feature](#)
class [data_center.BbkProperties.Parameter](#)
class [data_center.BbkProperties.SpecifiedSubpart](#)
class [data_center.BbkProperties.SpecifiedSubscar](#)
class [data_center.BbkProperties.Twin](#)

Packages

package [data_center](#)

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BbkType.java File Reference

Classes

class [data_center.BbkType](#)
class [data_center.BbkType.Sketch](#)
class [data_center.BbkType.Sketch.BioBrick](#)
class [data_center.BbkType.Sketch.Protein](#)
class [data_center.BbkType.Sketch.BackBone](#)
class [data_center.BbkType.Sketch.Relation](#)
class [data_center.BbkType.Sketch.Vector](#)

Packages

package [data_center](#)

BbkUpload.java File Reference

Classes

class [data_center.BbkUpload](#)
class [data_center.BbkUpload.Category](#)
class [data_center.BbkUpload.Feature](#)
class [data_center.BbkUpload.Parameter](#)
class [data_center.BbkUpload.DeepSubpart](#)
class [data_center.BbkUpload.SpecifiedSubpart](#)
class [data_center.BbkUpload.SpecifiedSubscar](#)
class [data_center.BbkUpload.Twin](#)

Packages

package [data_center](#)

BlastingSearcher.java File Reference

Classes

class data_center.BlastingSearcher

Packages

package data_center

CompareCenter.java File Reference

Classes

class data_center.CompareCenter

Packages

package data_center

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DatabaseConnector.java File Reference

Classes

class data_center.DatabaseConnector

Packages

package data_center

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DataCenter.java File Reference

Classes

class [data_center.DataCenter](#)

Packages

package [data_center](#)

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DBConsts.java File Reference

Classes

class [data_center.DBConsts](#)
class [data_center.DBConsts.Table](#)
class [data_center.DBConsts.Rating](#)
class [data_center.DBConsts.Header](#)
class [data_center.DBConsts.Header.Main](#)
class [data_center.DBConsts.Header.Category](#)
class [data_center.DBConsts.Header.DeepSub](#)
class [data_center.DBConsts.Header.Feature](#)
class [data_center.DBConsts.Header.Parameter](#)
class [data_center.DBConsts.Header.SpecScar](#)
class [data_center.DBConsts.Header.SpecSub](#)
class [data_center.DBConsts.Header.Twin](#)

Packages

package [data_center](#)

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DBDataFiller.java File Reference

Classes

class **data_center.DBDataFiller**

Packages

package data_center

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DetailPageCenter.java File Reference

Classes

class **data_center.DetailPageCenter**

Packages

package data_center

HistoryList.java File Reference

Classes

class [data_center.HistoryList< T >](#)

Packages

package [data_center](#)

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SearchCenter.java File Reference

Classes

class data_center.SearchCenter

Packages

package data_center

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SearchResultList.java File Reference

Packages

package data_center

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SketchCenter.java File Reference

Classes

class data_center.SketchCenter

Packages

package data_center

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SketchComponent.java File Reference

Classes

class [data_center.SketchComponent](#)
class [data_center.SketchComponent.Component](#)
class [data_center.SketchComponent.Label](#)
class [data_center.SketchComponent.BioBrick](#)
class [data_center.SketchComponent.Protein](#)
class [data_center.SketchComponent.BackBone](#)
class [data_center.SketchComponent.Relation](#)
class [data_center.SketchComponent.BioVector](#)

Packages

package [data_center](#)

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SketchProject.java File Reference

Classes

class [data_center.SketchProject](#)
class [data_center.SketchProject.Operation](#)

Packages

package [data_center](#)

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Testing.java File Reference

Packages

package data_center

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TimeTagGenerator.java File Reference

Classes

class data_center.TimeTagGenerator

Packages

package data_center

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UploadCenter.java File Reference

Classes

class [data_center.UploadCenter](#)

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