

Ene

0.16.1

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1 Ene

About

This project is a simple music library as a homework in the context of my computer science studies. For more details about the source code please check out the documentation: <https://vivi90.github.io/ene> (Also available as PDF download: <https://vivi90.github.io/ene/ene.pdf>)

Naming

We have named it after the character 'Ene' from the anime 'Mekakucity Actors'.

Usage

Just compile it. Currently it supports only WAV files. The library database is saved in a local SQLite file, called `library.db`.

Requirements

- Doxygen (only for contribution)

Contribution

Please issue **right after** cloning the following command to use all necessary hooks: `git config --local core.hooksPath .githooks`

Translation

Please take a look at the directory `src/ene/resources/locales`.

Troubleshooting

If you run this application on a Linux operating system, the sound doesn't work, and you get an `LineUnavailableException` in debug mode, then please force Java to use the Pulse Audio system by issuing: `padsp java -jar bin/ene.jar` You need to start this application with the `-d` argument to enable debug infos.

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Credits

- 2019 by Vivien Richter vivien-richter@outlook.de and Mathias Telling mathias.telling@stud.htwk-leipzig.de
- Our Git repository: <https://github.com/vivi90/ene.git>
- Application icon repository (by Google Limited): <https://github.com/google/material-design-icons>
- SQLite JDBC driver library repository: <https://bitbucket.org/xerial/sqlite-jdbc>

2 Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

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ene.controllers	7
ene.databases	8
ene.interfaces	8
ene.models	8
ene.views	9
ene.views.gui	9
ene.views.gui.partial	10

3 Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

ene.controllers.AbstractController< LibraryModel >	11
ene.controllers.LibraryController	59
ene.controllers.AbstractController< PlayerModel >	11
ene.controllers.PlayerController	97
ene.views.AbstractMasterView< JFrame >	14
ene.views.AbstractMasterView< JTabbedPane >	14
ene.AbstractObject	21
ene.Application	45
ene.controllers.AbstractController< ModelType >	11
ene.databases.SQLDatabase	127
ene.models.AbstractModel	18
ene.models.PlayerModel	103
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ene.models.LibraryModel	72
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ene.views.AbstractView< CoreComponentType >	39
ene.views.AbstractMasterView< CoreComponentType >	14
ene.views.gui.partial.ContentView	50
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ene.views.AbstractPartialView< CoreComponentType, ModelType >	27
ene.views.gui.partial.AbstractTrackListView	31
ene.views.gui.partial.LibraryView	78
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ene.interfaces.Localization	85
ene.views.AbstractView< CoreComponentType >	39
ene.interfaces.Model	91
ene.models.AbstractModel	18
ene.interfaces.View< CoreComponentType >	152
ene.interfaces.MasterView< CoreComponentType >	88
ene.views.AbstractMasterView< CoreComponentType >	14
ene.interfaces.PartialView< CoreComponentType, ModelType >	93
ene.views.AbstractPartialView< CoreComponentType, ModelType >	27
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LineListener	
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ListSelectionListener	
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4 Class Index

4.1 Class List

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

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ene.views.AbstractMasterView< CoreComponentType >	14
ene.models.AbstractModel	18
ene.AbstractObject	21
ene.views.AbstractPartialView< CoreComponentType, ModelType >	27
ene.views.gui.partial.AbstractTrackListView	31
ene.views.AbstractView< CoreComponentType >	39
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ene.databases.SQLDatabase	127
ene.models.TrackListModel	135
ene.models.TrackModel	140
ene.interfaces.View< CoreComponentType >	152
ene.views.gui.WindowView	156

5 File Index

5.1 File List

Here is a list of all files with brief descriptions:

src/ene/ AbstractObject.java	160
src/ene/ Application.java	161
src/ene/ package-info.java	162
src/ene/controllers/ AbstractController.java	161
src/ene/controllers/ LibraryController.java	161
src/ene/controllers/ package-info.java	161
src/ene/controllers/ PlayerController.java	162
src/ene/databases/ package-info.java	161
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src/ene/views/ AbstractMasterView.java	166
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src/ene/views/ AbstractView.java	166
src/ene/views/ package-info.java	162
src/ene/views/gui/ package-info.java	162
src/ene/views/gui/ WindowView.java	167
src/ene/views/gui/partial/ AbstractTrackListView.java	166
src/ene/views/gui/partial/ ContentView.java	167

src/ene/views/gui/partial/LibraryView.java	167
src/ene/views/gui/partial/package-info.java	162
src/ene/views/gui/partial/PlayerView.java	167

6 Namespace Documentation

6.1 Package ene

Packages

- package [controllers](#)
- package [databases](#)
- package [interfaces](#)
- package [models](#)
- package [views](#)

Classes

- class [AbstractObject](#)
- class [Application](#)

6.1.1 Detailed Description

Simple music library.

Version

0.16.1

6.2 Package ene.controllers

Classes

- class [AbstractController](#)
- class [LibraryController](#)
- class [PlayerController](#)

6.2.1 Detailed Description

Controllers.

Since

0.2.0

6.3 Package ene.databases

Classes

- class [SQLDatabase](#)

6.3.1 Detailed Description

Databases.

Since

0.9.0

6.4 Package ene.interfaces

Classes

- interface [Controller](#)
- interface [DatabaseConnection](#)
- interface [Localization](#)
- interface [MasterView](#)
- interface [Model](#)
- interface [PartialView](#)
- interface [View](#)

6.4.1 Detailed Description

Interfaces.

Since

0.2.0

6.5 Package ene.models

Classes

- class [AbstractModel](#)
- class [LibraryModel](#)
- class [PlayerModel](#)
- class [PlaylistModel](#)
- class [TrackListModel](#)
- class [TrackModel](#)

6.5.1 Detailed Description

Data holding models.

Since

0.2.0

6.6 Package ene.views

Packages

- package [gui](#)

Classes

- class [AbstractMasterView](#)
- class [AbstractPartialView](#)
- class [AbstractView](#)

6.6.1 Detailed Description

Views.

Since

0.2.0

6.7 Package ene.views.gui

Packages

- package [partial](#)

Classes

- class [WindowView](#)

6.7.1 Detailed Description

GUI views.

Since

0.11.0

6.8 Package ene.views.gui.partial

Classes

- class [AbstractTrackListView](#)
- class [ContentView](#)
- class [LibraryView](#)
- class [PlayerView](#)

6.8.1 Detailed Description

Partial GUI views.

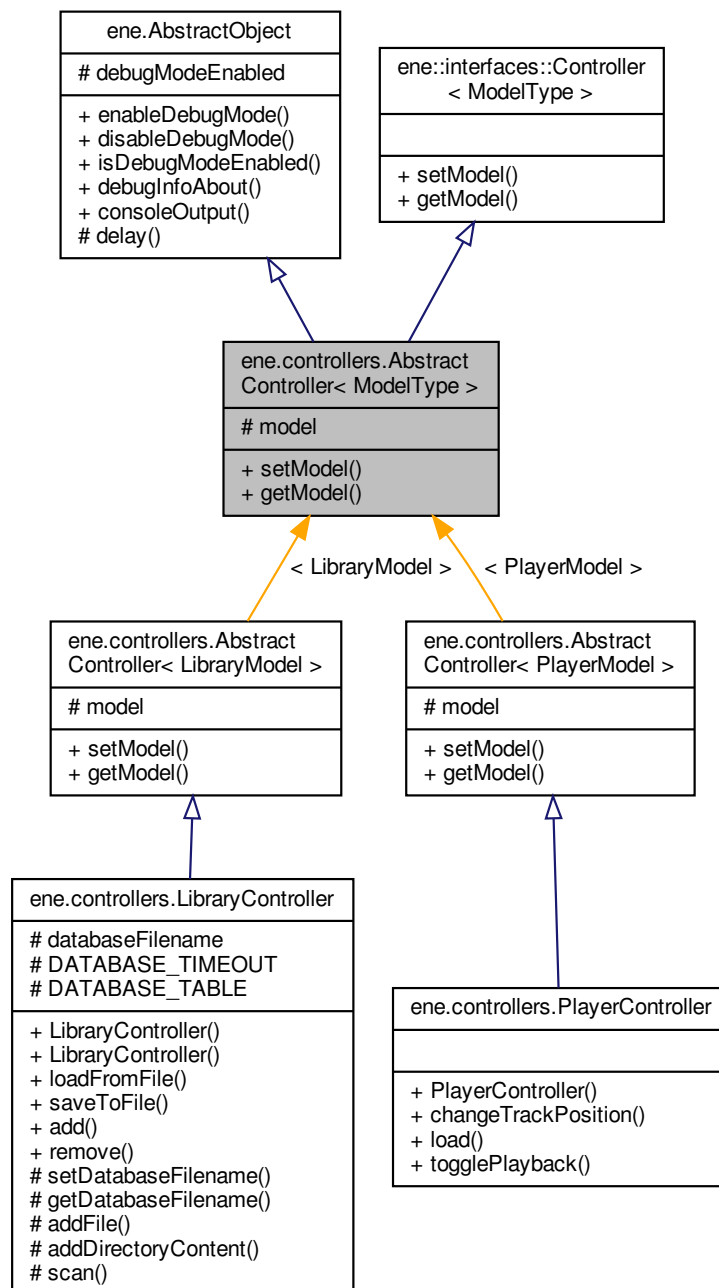
Since

0.11.0

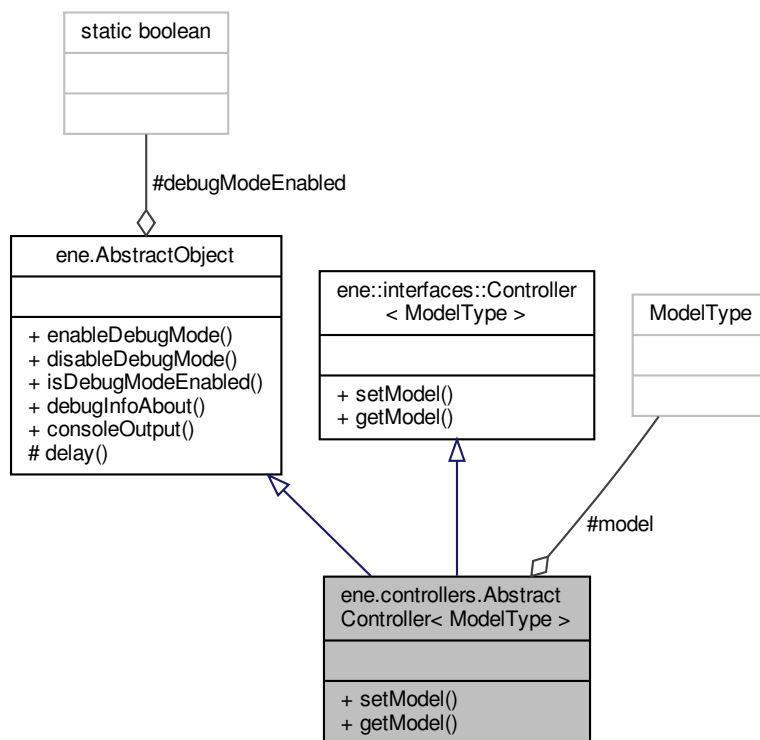
7 Class Documentation

7.1 ene.controllers.AbstractController< ModelType > Class Template Reference

Inheritance diagram for ene.controllers.AbstractController< ModelType >:



Collaboration diagram for ene.controllers.AbstractController< ModelType >:



Public Member Functions

- void [setModel](#) ([Model model](#))
- [ModelType getModel](#) ()

Protected Attributes

- [ModelType model](#)

Additional Inherited Members

7.1.1 Detailed Description

Abstract controller.

Version

1.0.0

Definition at line 11 of file `AbstractController.java`.

7.1.2 Member Function Documentation

7.1.2.1 getModel()

```
ModelType ene.controllers.AbstractController< ModelType >.getModel ( )
```

Returns the model instance.

Returns

Model instance.

Implements [ene.interfaces.Controller< ModelType >](#).

Definition at line 24 of file AbstractController.java.

7.1.2.2 setModel()

```
void ene.controllers.AbstractController< ModelType >.setModel (
    Model model )
```

Sets the model instance.

Parameters

<i>model</i>	Model instance.
--------------	-----------------

Implements [ene.interfaces.Controller< ModelType >](#).

Definition at line 19 of file AbstractController.java.

7.1.3 Member Data Documentation

7.1.3.1 model

```
ModelType ene.controllers.AbstractController< ModelType >.model [protected]
```

Model instance.

Definition at line 15 of file AbstractController.java.

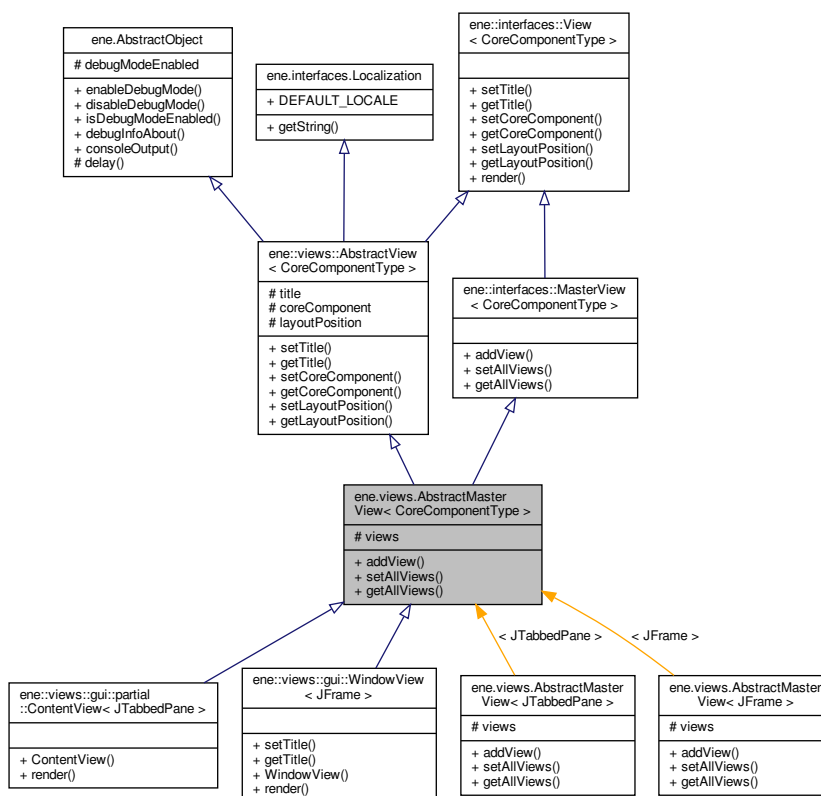
Referenced by [ene.controllers.AbstractController< PlayerModel >.getModel\(\)](#).

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

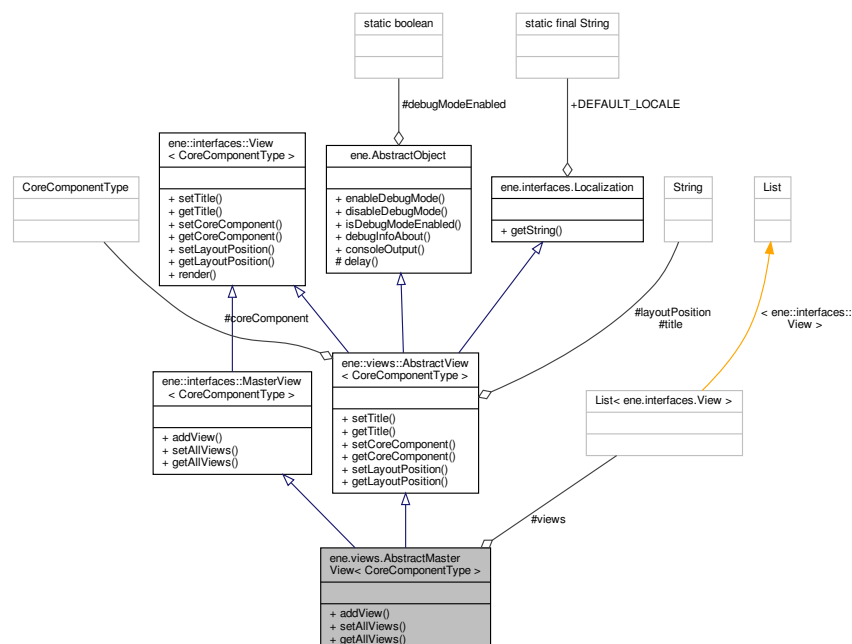
- [src/ene/controllers/AbstractController.java](#)

7.2 ene.views.AbstractMasterView< CoreComponentType > Class Template Reference

Inheritance diagram for ene.views.AbstractMasterView< CoreComponentType >:



Collaboration diagram for ene.views.AbstractMasterView< CoreComponentType >:



Public Member Functions

- void `addView` (`View` view)
- void `setAllViews` (`List< View > views`)
- `List< View > getAllViews` ()

Protected Attributes

- `List< View > views = new ArrayList<>()`

Additional Inherited Members

7.2.1 Detailed Description

Abstract master view.

Since

0.3.0

Version

1.0.0

Definition at line 14 of file `AbstractMasterView.java`.

7.2.2 Member Function Documentation

7.2.2.1 addView()

```
void ene.views.AbstractMasterView< CoreComponentType >.addView (
    View view )
```

Adds view instance.

Parameters

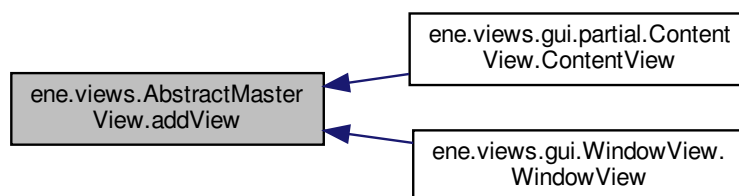
<i>view</i>	View instance.
-------------	----------------

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 21 of file AbstractMasterView.java.

Referenced by [ene.views.gui.partial.ContentView.ContentView\(\)](#), and [ene.views.gui.WindowView.WindowView\(\)](#).

Here is the caller graph for this function:



7.2.2.2 getAllViews()

```
List<View> ene.views.AbstractMasterView< CoreComponentType >.getAllViews ( )
```

Returns all contained view instances.

Returns

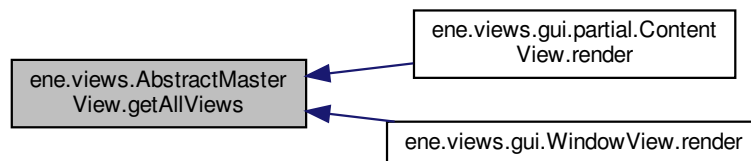
List of view instances.

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 31 of file AbstractMasterView.java.

Referenced by `ene.views.gui.partial.ContentView.render()`, and `ene.views.gui.WindowView.render()`.

Here is the caller graph for this function:

**7.2.2.3 setAllViews()**

```
void ene.views.AbstractMasterView< CoreComponentType >.setAllViews (
    List< View > views )
```

Sets all contained view instances.

Parameters

<i>views</i>	List of view instances.
--------------	-------------------------

Implements [ene.interfaces.MasterView< CoreComponentType >](#).

Definition at line 26 of file AbstractMasterView.java.

7.2.3 Member Data Documentation**7.2.3.1 views**

```
List<View> ene.views.AbstractMasterView< CoreComponentType >.views = new ArrayList<>() [protected]
```

Contained view instances.

Definition at line 18 of file AbstractMasterView.java.

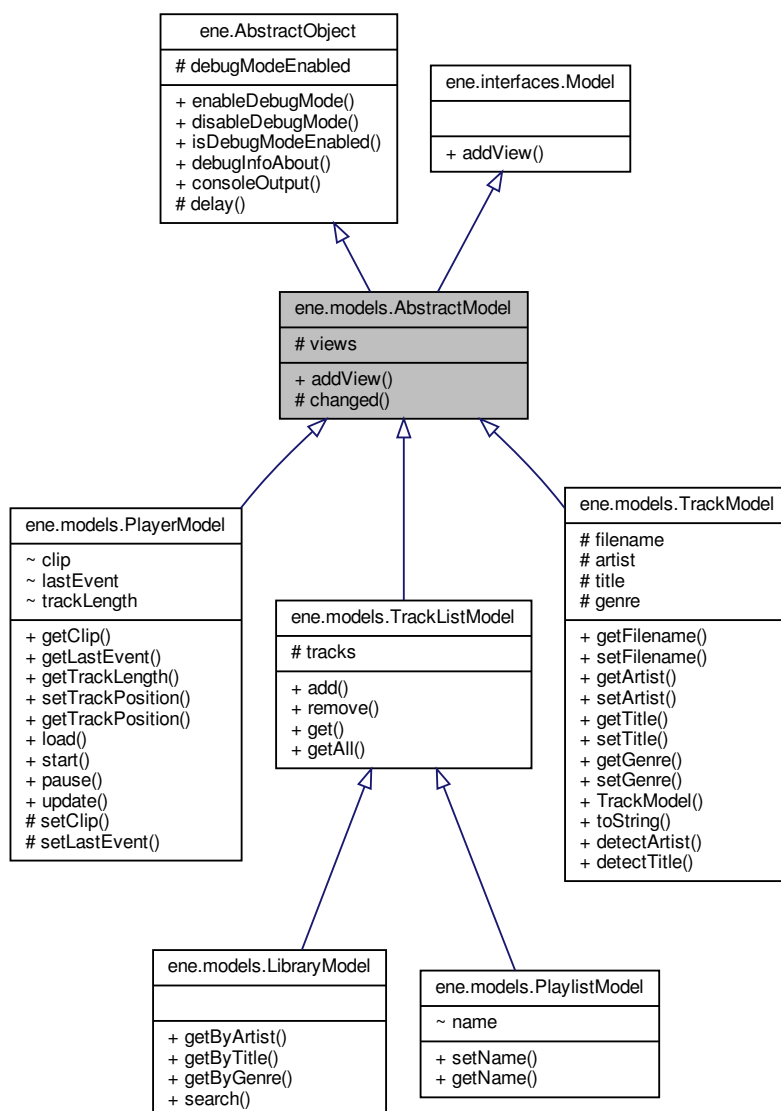
Referenced by `ene.views.AbstractMasterView< JFrame >.getAllViews()`, and `ene.views.AbstractMasterView< JFrame >.setAllViews()`.

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

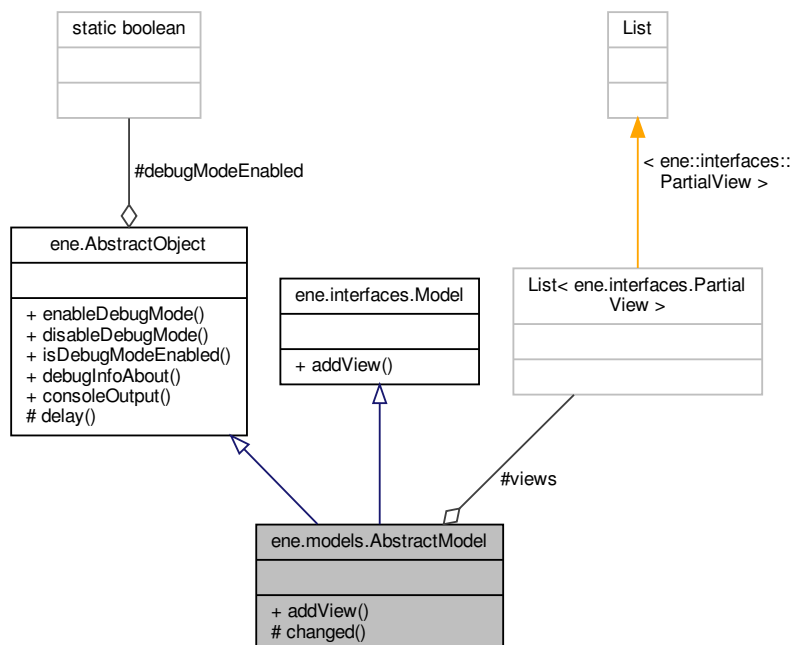
- `src/ene/views/AbstractMasterView.java`

7.3 ene.models.AbstractModel Class Reference

Inheritance diagram for ene.models.AbstractModel:



Collaboration diagram for ene.models.AbstractModel:



Public Member Functions

- void [addView](#) ([PartialView](#) view)

Protected Member Functions

- void [changed](#) ()

Protected Attributes

- List< [PartialView](#) > [views](#) = new ArrayList<>()

Additional Inherited Members

7.3.1 Detailed Description

Abstract model.

Version

2.0.0

Definition at line 13 of file AbstractModel.java.

7.3.2 Member Function Documentation

7.3.2.1 addView()

```
void ene.models.AbstractModel.addView (
    PartialView view )
```

Add related view.

Parameters

<i>view</i>	View.
-------------	-------

Implements [ene.interfaces.Model](#).

Definition at line 20 of file AbstractModel.java.

7.3.2.2 changed()

```
void ene.models.AbstractModel.changed ( ) [protected]
```

Update event.

Definition at line 27 of file AbstractModel.java.

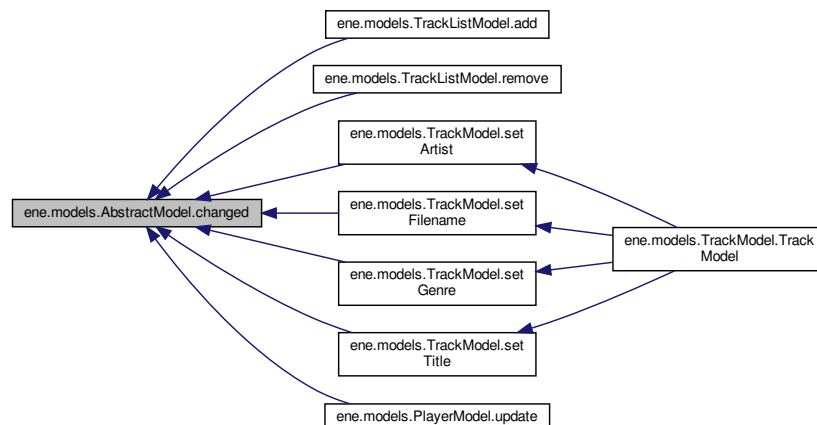
References [ene.interfaces.PartialView< CoreComponentType, ModelType >.update\(\)](#).

Referenced by [ene.models.TrackListModel.add\(\)](#), [ene.models.TrackListModel.remove\(\)](#), [ene.models.TrackModel.setArtist\(\)](#), [ene.models.TrackModel.setFilename\(\)](#), [ene.models.TrackModel.setGenre\(\)](#), [ene.models.TrackModel.setTitle\(\)](#), and [ene.models.PlayerModel.update\(\)](#).

Here is the call graph for this function:



Here is the caller graph for this function:



7.3.3 Member Data Documentation

7.3.3.1 views

```
List<PartialView> ene.models.AbstractModel.views = new ArrayList<>() [protected]
```

Related views.

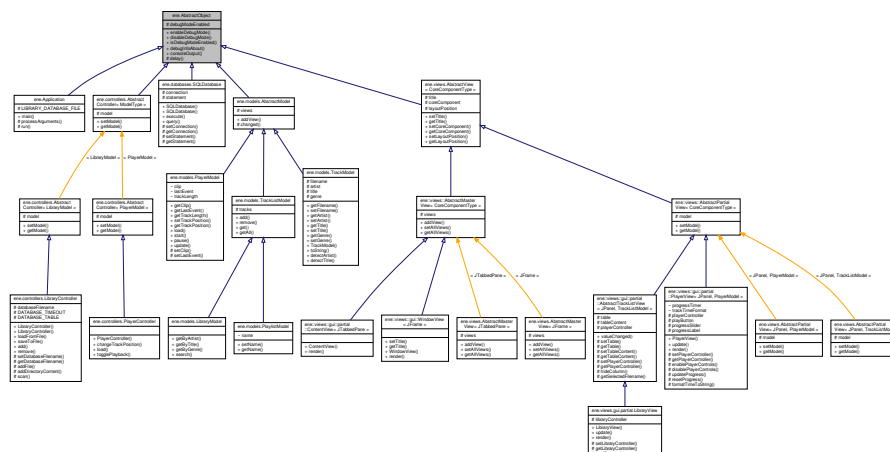
Definition at line 17 of file `AbstractModel.java`.

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

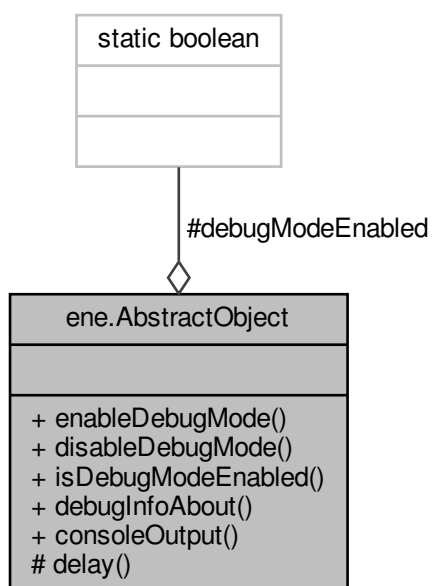
- `src/ene/models/AbstractModel.java`

7.4 ene.AbstractObject Class Reference

Inheritance diagram for `ene.AbstractObject`:



Collaboration diagram for ene.AbstractObject:



Static Public Member Functions

- static void `enableDebugMode` ()
- static void `disableDebugMode` ()
- static boolean `isDebugEnabled` ()
- static void `debugInfoAbout` (Object object)
- static void `consoleOutput` (String text)

Protected Member Functions

- void `delay` (long milliseconds)

Static Protected Attributes

- static boolean `debugModeEnabled` = false

7.4.1 Detailed Description

Abstract object class.

Since

0.4.0

Version

1.0.1

Definition at line 11 of file `AbstractObject.java`.

7.4.2 Member Function Documentation

7.4.2.1 consoleOutput()

```
static void ene.AbstractObject.consoleOutput (
    String text ) [static]
```

Console output.

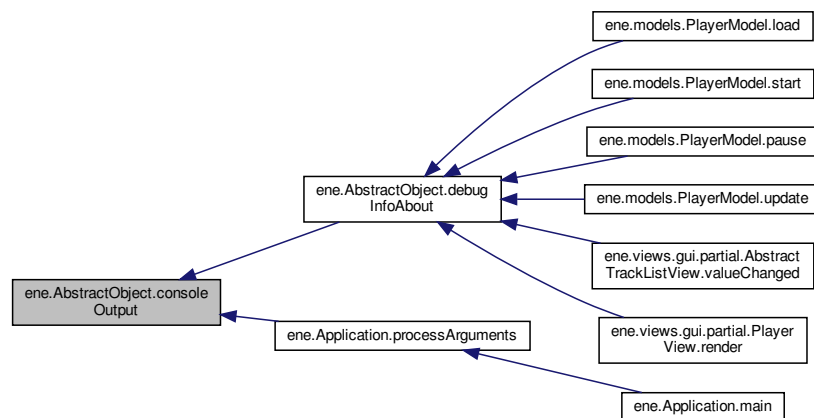
Parameters

<i>text</i>	Text.
-------------	-------

Definition at line 53 of file AbstractObject.java.

Referenced by ene.AbstractObject.debugInfoAbout(), and ene.Application.processArguments().

Here is the caller graph for this function:



7.4.2.2 debugInfoAbout()

```
static void ene.AbstractObject.debugInfoAbout (
    Object object ) [static]
```

Debug info.

Parameters

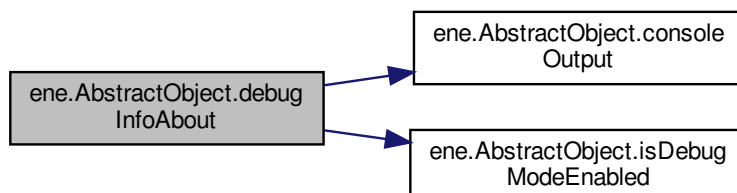
<i>object</i>	Object instance to show information about.
---------------	--

Definition at line 43 of file AbstractObject.java.

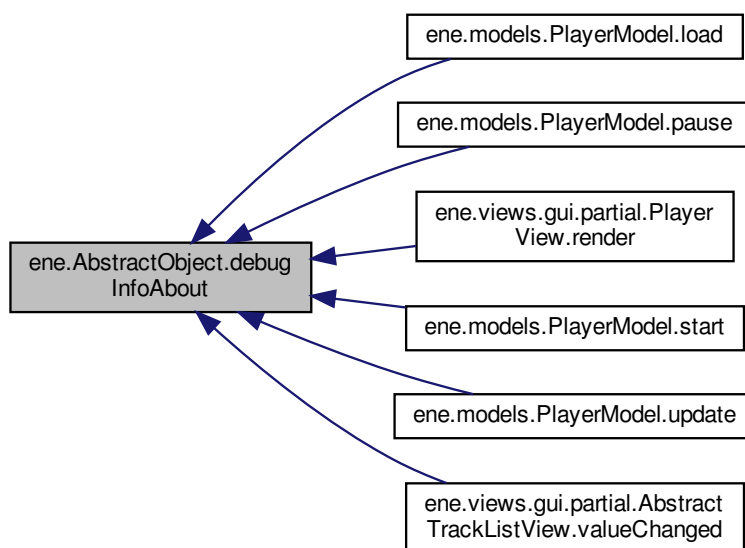
References ene.AbstractObject.consoleOutput(), and ene.AbstractObject.isDebugEnabled().

Referenced by ene.models.PlayerModel.load(), ene.models.PlayerModel.pause(), ene.views.gui.partial.PlayerView.render(), ene.models.PlayerModel.start(), ene.models.PlayerModel.update(), and ene.views.gui.partial.AbstractTrackListView.valueChanged().

Here is the call graph for this function:



Here is the caller graph for this function:



7.4.2.3 delay()

```
void ene.AbstractObject.delay (
    long milliseconds ) [protected]
```

Let's wait for a while in the current thread.

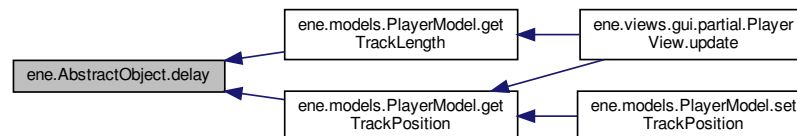
Parameters

<i>milliseconds</i>	Wait time in milliseconds.
---------------------	----------------------------

Definition at line 61 of file AbstractObject.java.

Referenced by ene.models.PlayerModel.getTrackLength(), and ene.models.PlayerModel.getTrackPosition().

Here is the caller graph for this function:



7.4.2.4 disableDebugMode()

```
static void ene.AbstractObject.disableDebugMode ( ) [static]
```

Disables debug mode.

Definition at line 27 of file AbstractObject.java.

References `ene.AbstractObject.debugModeEnabled`.

7.4.2.5 enableDebugMode()

```
static void ene.AbstractObject.enableDebugMode ( ) [static]
```

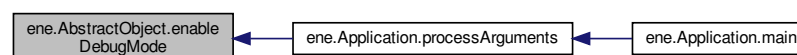
Enables debug mode.

Definition at line 20 of file AbstractObject.java.

References `ene.AbstractObject.debugModeEnabled`.

Referenced by `ene.Application.processArguments()`.

Here is the caller graph for this function:



7.4.2.6 isDebugEnabled()

```
static boolean ene.AbstractObject.isDebugEnabled ( ) [static]
```

Returns debug mode state.

Returns

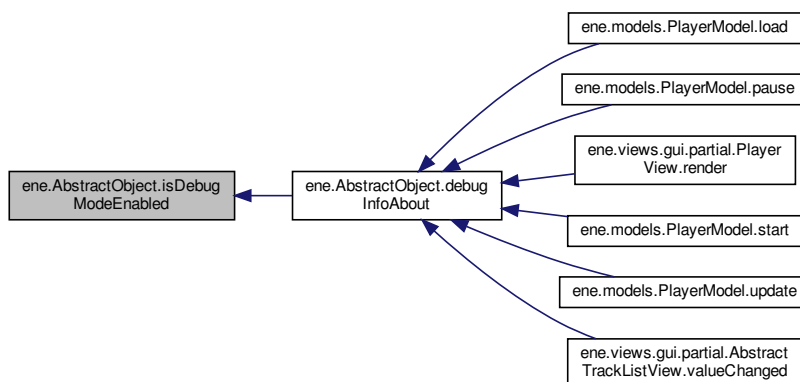
Returns TRUE, if the debug mode is enabled. Otherwise FALSE.

Definition at line 35 of file AbstractObject.java.

References ene.AbstractObject.debugModeEnabled.

Referenced by ene.AbstractObject.debugInfoAbout().

Here is the caller graph for this function:



7.4.3 Member Data Documentation

7.4.3.1 debugModeEnabled

```
boolean ene.AbstractObject.debugModeEnabled = false [static], [protected]
```

Debug mode state.

Definition at line 15 of file AbstractObject.java.

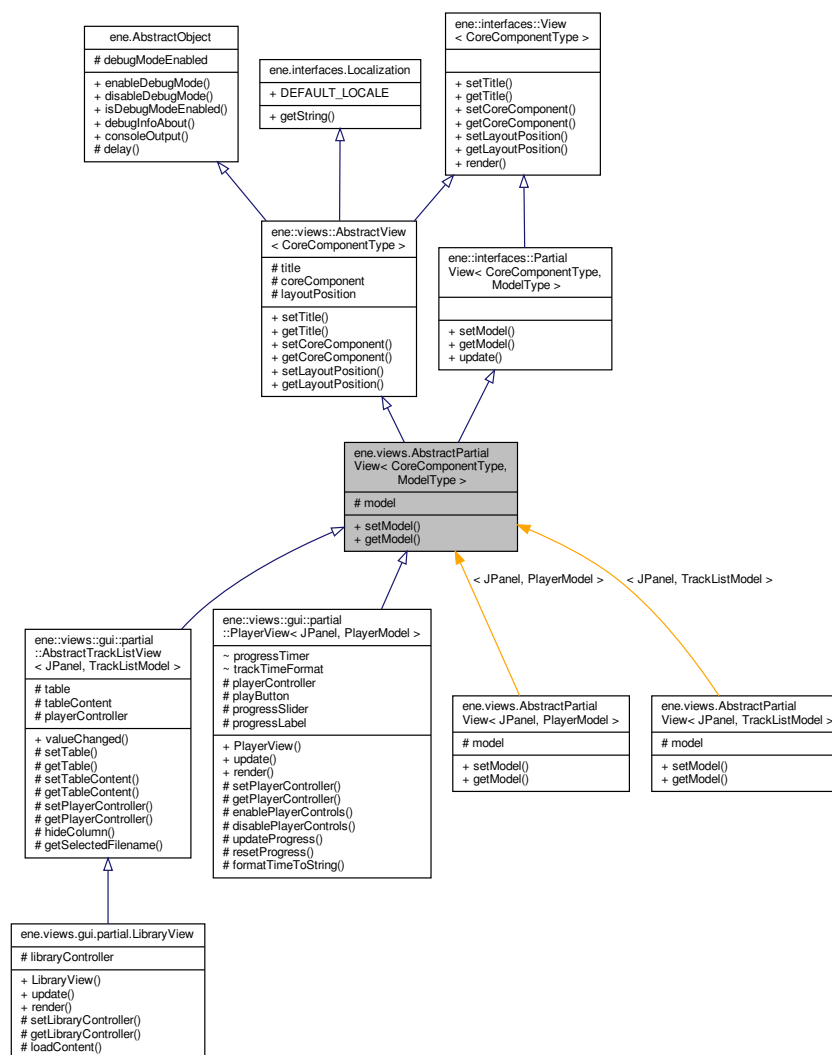
Referenced by `ene.AbstractObject.disableDebugMode()`, `ene.AbstractObject.enableDebugMode()`, and `ene.AbstractObject.isDebugEnabled()`.

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

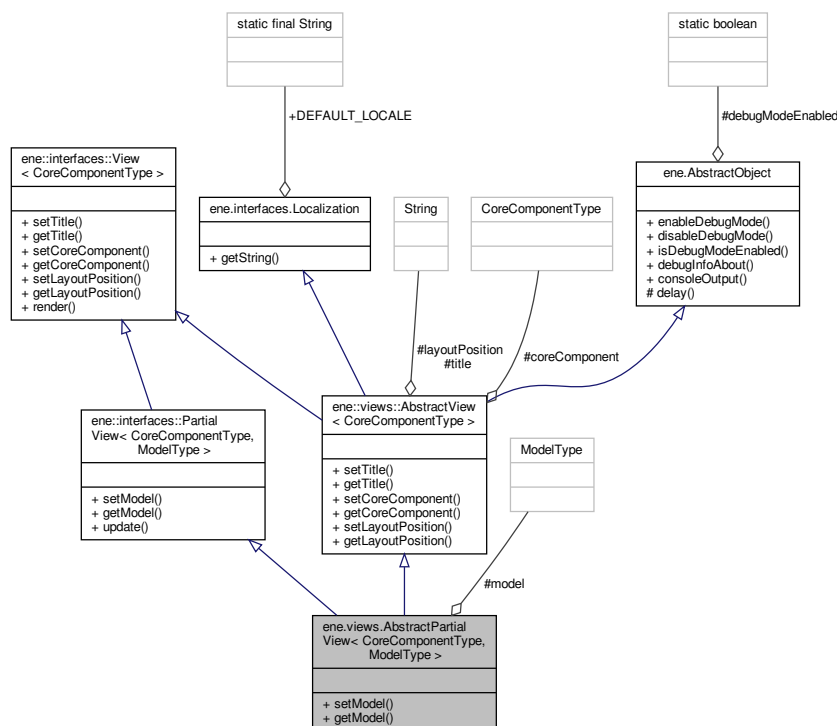
- [src/ene/AbstractObject.java](#)

7.5 ene.views.AbstractPartialView< CoreComponentType, ModelType > Class Template Reference

Inheritance diagram for ene.views.AbstractPartialView< CoreComponentType, ModelType >:



Collaboration diagram for `ene.views.AbstractPartialView< CoreComponentType, ModelType >`:



Public Member Functions

- void `setModel (Model model)`
- `ModelType getModel ()`

Protected Attributes

- `ModelType model`

Additional Inherited Members

7.5.1 Detailed Description

Abstract partial view.

Since

0.11.0

Version

1.0.0

Definition at line 12 of file `AbstractPartialView.java`.

7.5.2 Member Function Documentation

7.5.2.1 getModel()

```
ModelType ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel ( )
```

Returns the model instance.

Returns

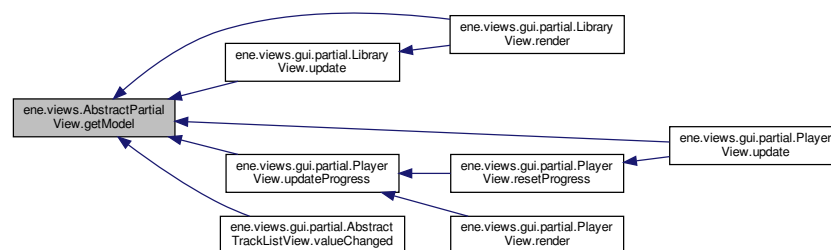
Model instance.

Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 25 of file AbstractPartialView.java.

Referenced by `ene.views.gui.partial.LibraryView.render()`, `ene.views.gui.partial.LibraryView.update()`, `ene.views.gui.partial.PlayerView.update()`, `ene.views.gui.partial.PlayerView.updateProgress()`, and `ene.views.gui.partial.AbstractTrackListView.valueChanged()`.

Here is the caller graph for this function:



7.5.2.2 setModel()

```
void ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel (
    Model model )
```

Sets the model instance.

Parameters

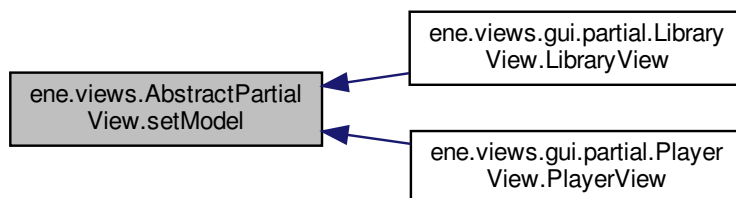
<i>model</i>	Model instance.
--------------	-----------------

Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 20 of file AbstractPartialView.java.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, and `ene.views.gui.partial.PlayerView.PlayerView()`.

Here is the caller graph for this function:



7.5.3 Member Data Documentation

7.5.3.1 model

ModelType `ene.views.AbstractPartialView`< CoreComponentType, ModelType >.model [protected]

Model instance.

Definition at line 16 of file `AbstractPartialView.java`.

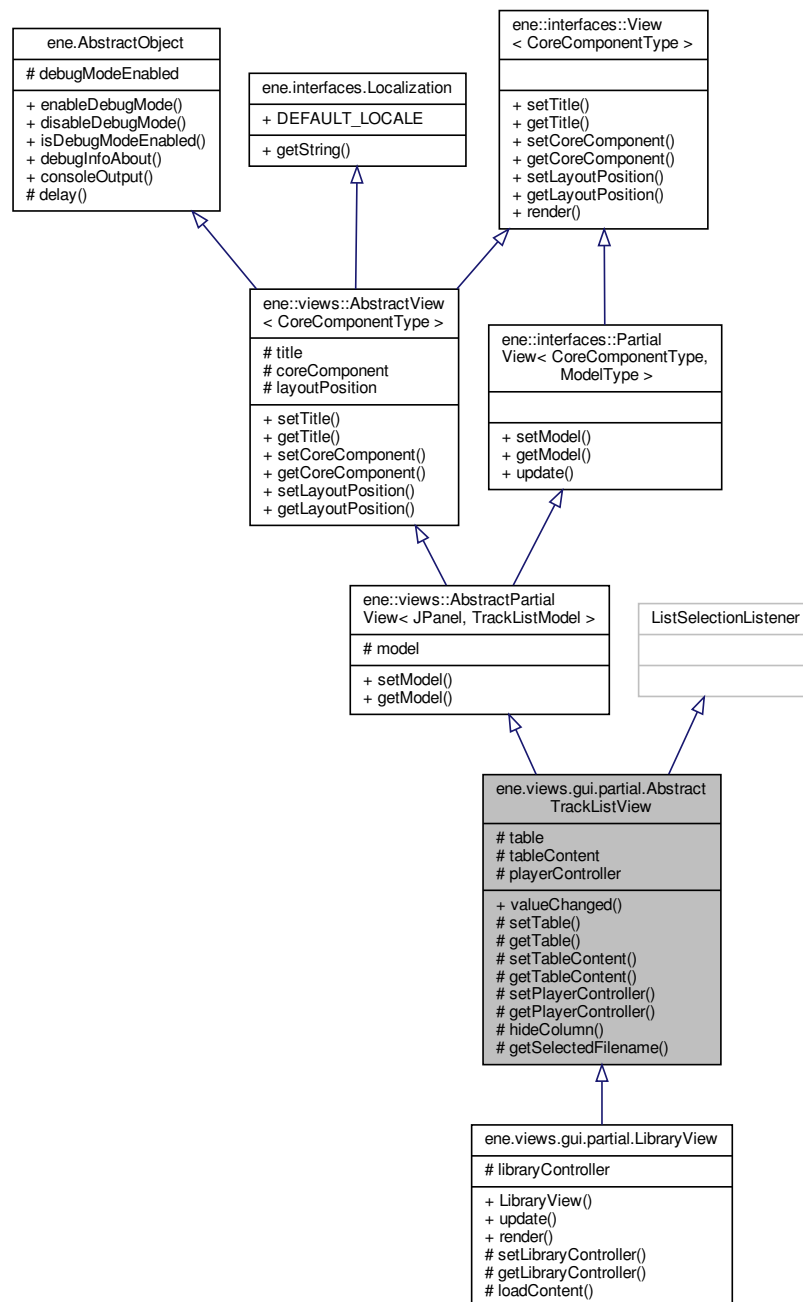
Referenced by `ene.views.AbstractPartialView`< JPanel, TrackListModel >.getModel().

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

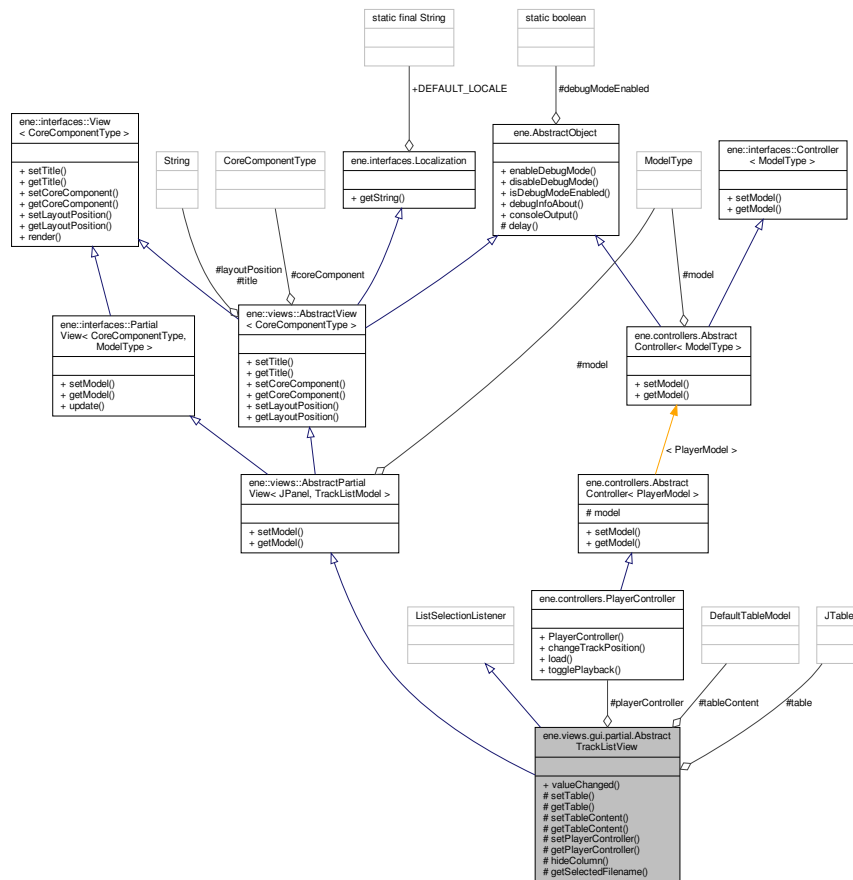
- `src/ene/views/AbstractPartialView.java`

7.6 ene.views.gui.partial.AbstractTrackListView Class Reference

Inheritance diagram for ene.views.gui.partial.AbstractTrackListView:



Collaboration diagram for ene.views.gui.partial.AbstractTrackListView:



Public Member Functions

- void [valueChanged](#) (ListSelectionEvent event)

Protected Member Functions

- void [setTable](#) (JTable table)
- JTable [getTable](#) ()
- void [setTableContent](#) (DefaultTableModel tableContent)
- DefaultTableModel [getTableContent](#) ()
- void [setPlayerController](#) (Controller playerController)
- PlayerController [getPlayerController](#) ()
- void [hideColumn](#) (JTable table, int columnIndex)
- String [getSelectedFilename](#) ()

Protected Attributes

- JTable [table](#)
- DefaultTableModel [tableContent](#)
- PlayerController [playerController](#)

Additional Inherited Members

7.6.1 Detailed Description

Track list view.

Since

0.14.0

Version

2.0.0

Definition at line 19 of file AbstractTrackListView.java.

7.6.2 Member Function Documentation

7.6.2.1 getPlayerController()

`PlayerController` ene.views.gui.partial.AbstractTrackListView.getPlayerController () [protected]

Returns the player controller instance.

Returns

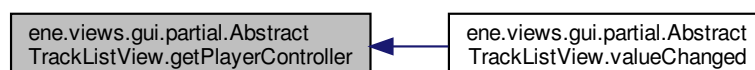
Player controller instance.

Definition at line 89 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.playerController.

Referenced by ene.views.gui.partial.AbstractTrackListView.valueChanged().

Here is the caller graph for this function:



7.6.2.2 `getSelectedFilename()`

```
String ene.views.gui.partial.AbstractTrackListView.getSelectedFilename ( ) [protected]
```

Returns the selected filename.

Returns

Selected filename or empty string, if nothing is selected.

Since

0.12.0

Definition at line 109 of file AbstractTrackListView.java.

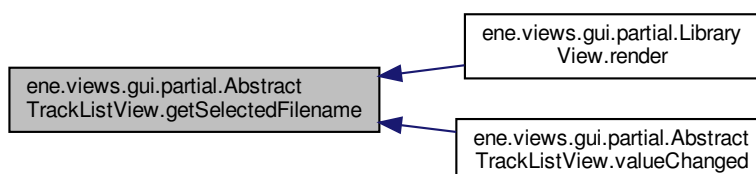
References `ene.views.gui.partial.AbstractTrackListView.getTable()`.

Referenced by `ene.views.gui.partial.LibraryView.render()`, and `ene.views.gui.partial.AbstractTrackListView.valueChanged()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.6.2.3 `getTable()`

```
JTable ene.views.gui.partial.AbstractTrackListView.getTable ( ) [protected]
```

Returns the table instance.

Returns

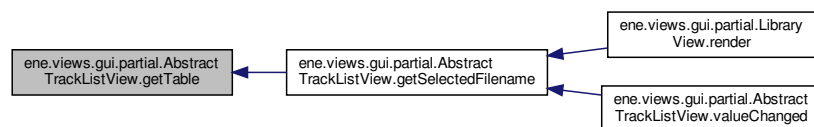
Table instance.

Definition at line 57 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.table.

Referenced by ene.views.gui.partial.AbstractTrackListView.getSelectedFilename().

Here is the caller graph for this function:

7.6.2.4 `getTableContent()`

```
DefaultTableModel ene.views.gui.partial.AbstractTrackListView.getTableContent ( ) [protected]
```

Returns the table content instance.

Returns

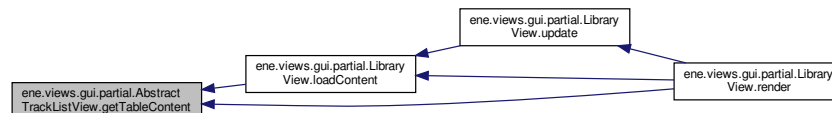
Table content instance.

Definition at line 73 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableContent.

Referenced by ene.views.gui.partial.LibraryView.loadContent(), and ene.views.gui.partial.LibraryView.render().

Here is the caller graph for this function:

7.6.2.5 `hideColumn()`

```
void ene.views.gui.partial.AbstractTrackListView.hideColumn (
    JTable table,
    int columnIndex ) [protected]
```

Hide table column.

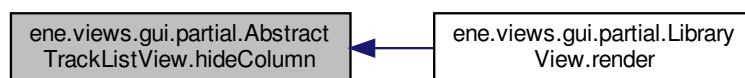
Parameters

<i>table</i>	Table instance.
<i>columnIndex</i>	Column index.

Definition at line 98 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.LibraryView.render().

Here is the caller graph for this function:

**7.6.2.6 setPlayerController()**

```
void ene.views.gui.partial.AbstractTrackListView.setPlayerController (
    Controller playerController ) [protected]
```

Sets the player controller instance.

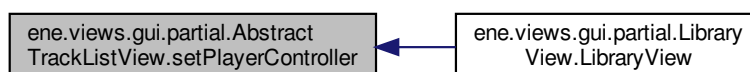
Parameters

<i>playerController</i>	Player controller instance.
-------------------------	-----------------------------

Definition at line 81 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.LibraryView.LibraryView().

Here is the caller graph for this function:



7.6.2.7 setTable()

```
void ene.views.gui.partial.AbstractTrackListView.setTable (
    JTable table ) [protected]
```

Sets the table instance.

Parameters

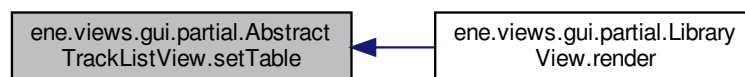
<i>table</i>	Table instance.
--------------	-----------------

Definition at line 49 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.table.

Referenced by ene.views.gui.partial.LibraryView.render().

Here is the caller graph for this function:



7.6.2.8 setTableContent()

```
void ene.views.gui.partial.AbstractTrackListView.setTableContent (
    DefaultTableModel tableContent ) [protected]
```

Sets the table content instance.

Parameters

<i>tableContent</i>	Table content instance.
---------------------	-------------------------

Definition at line 65 of file AbstractTrackListView.java.

References ene.views.gui.partial.AbstractTrackListView.tableContent.

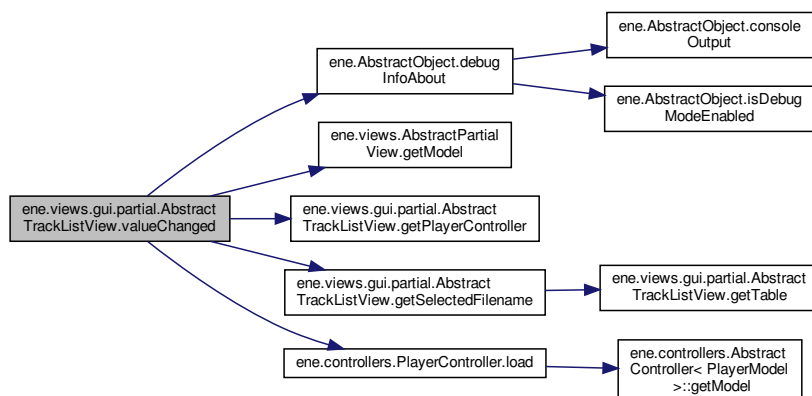
7.6.2.9 valueChanged()

```
void ene.views.gui.partial.AbstractTrackListView.valueChanged (
    ListSelectionEvent event )
```

Definition at line 119 of file AbstractTrackListView.java.

References ene.AbstractObject.debugInfoAbout(), ene.views.AbstractPartialView< CoreComponentType, Model<Type> >.getModel(), ene.views.gui.partial.AbstractTrackListView.getPlayerController(), ene.views.gui.partial.AbstractTrackListView.getSelectedFilename(), and ene.controllers.PlayerController.load().

Here is the call graph for this function:



7.6.3 Member Data Documentation

7.6.3.1 playerController

`PlayerController` ene.views.gui.partial.AbstractTrackListView.playerController [protected]

Player controller instance.

Definition at line 43 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.AbstractTrackListView.getPlayerController().

7.6.3.2 table

`JTable` ene.views.gui.partial.AbstractTrackListView.table [protected]

Table instance.

Definition at line 23 of file AbstractTrackListView.java.

Referenced by ene.views.gui.partial.AbstractTrackListView.getTable(), ene.views.gui.partial.LibraryView.render(), and ene.views.gui.partial.AbstractTrackListView.setTable().

7.6.3.3 tableContent

DefaultTableModel ene.views.gui.partial.AbstractTrackListView.tableContent [protected]

Initial value:

```
= new DefaultTableModel() {
    private static final long serialVersionUID = 1L;

    @Override
    public boolean isCellEditable(int row, int column) {
        return false;
    }
}
```

Table content instance.

Definition at line 28 of file AbstractTrackListView.java.

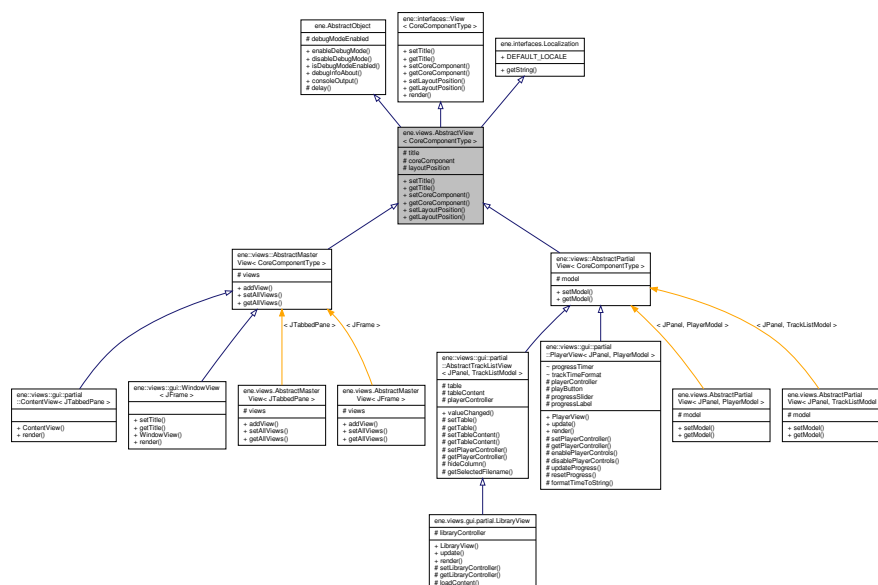
Referenced by ene.views.gui.partial.AbstractTrackListView.getTableContent(), ene.views.gui.partial.LibraryView.loadContent(), ene.views.gui.partial.LibraryView.render(), and ene.views.gui.partial.AbstractTrackListView.setTableContent().

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

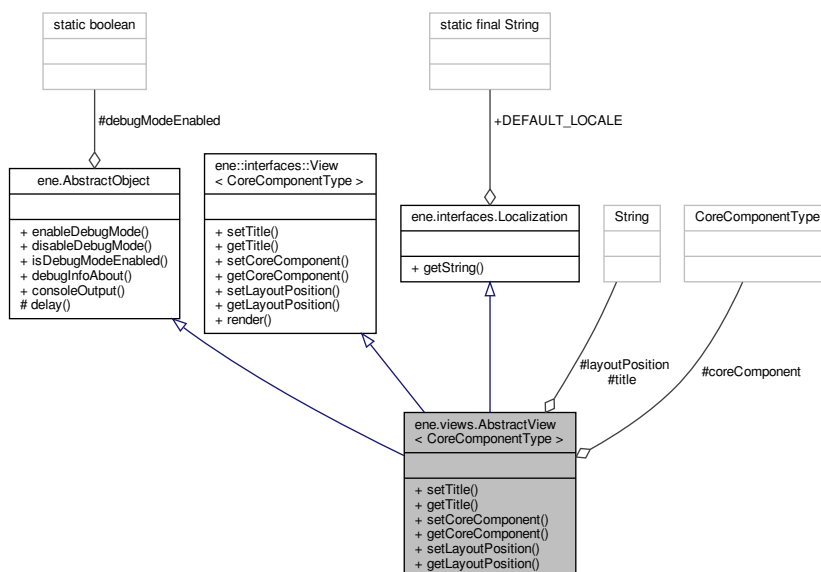
- src/ene/views/gui/partial/AbstractTrackListView.java

7.7 ene.views.AbstractView< CoreComponentType > Class Template Reference

Inheritance diagram for ene.views.AbstractView< CoreComponentType >:



Collaboration diagram for ene.views.AbstractView< CoreComponentType >:



Public Member Functions

- void `setTitle` (String `title`)
- String `getTitle` ()
- void `setCoreComponent` (CoreComponentType `coreComponent`)
- CoreComponentType `getCoreComponent` ()
- void `setLayoutPosition` (String `layoutPosition`)
- String `getLayoutPosition` ()

Protected Attributes

- String `title` = ""
- CoreComponentType `coreComponent`
- String `layoutPosition`

Additional Inherited Members

7.7.1 Detailed Description

Abstract view.

Version

1.1.0

Definition at line 11 of file `AbstractView.java`.

7.7.2 Member Function Documentation

7.7.2.1 getCoreComponent()

CoreComponentType [ene.views.AbstractView](#)< CoreComponentType >.getCoreComponent ()

Returns the core component instance.

Returns

Core component instance.

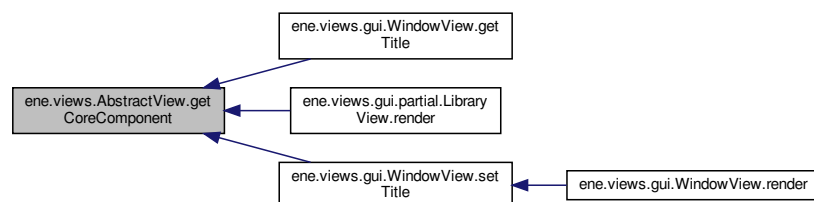
Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 43 of file AbstractView.java.

References [ene.views.AbstractView](#)< [CoreComponentType](#) >.coreComponent.

Referenced by [ene.views.gui.WindowView.getTitle\(\)](#), [ene.views.gui.partial.LibraryView.render\(\)](#), and [ene.views.gui.WindowView.setTitle\(\)](#).

Here is the caller graph for this function:



7.7.2.2 getLayoutPosition()

String [ene.views.AbstractView](#)< CoreComponentType >.getLayoutPosition ()

Returns the layout position.

Returns

Layout position.

Implements [ene.interfaces.View](#)< [CoreComponentType](#) >.

Definition at line 53 of file AbstractView.java.

References [ene.views.AbstractView](#)< [CoreComponentType](#) >.layoutPosition.

7.7.2.3 getTitle()

```
String ene.views.AbstractView< CoreComponentType >.getTitle ( )
```

Returns the title.

Returns

Title.

Since

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 33 of file AbstractView.java.

References [ene.views.AbstractView< CoreComponentType >.title](#).

7.7.2.4 setCoreComponent()

```
void ene.views.AbstractView< CoreComponentType >.setCoreComponent (
    CoreComponentType coreComponent )
```

Sets the core component instance.

Parameters

<i>coreComponent</i>	Core component instance.
----------------------	--------------------------

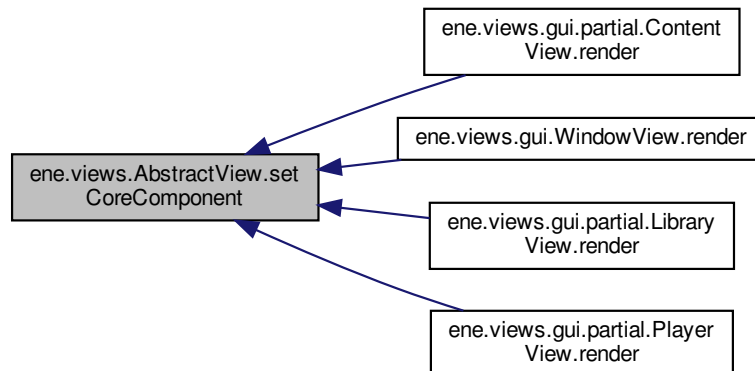
Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 38 of file AbstractView.java.

References [ene.views.AbstractView< CoreComponentType >.coreComponent](#).

Referenced by [ene.views.gui.partial.ContentView.render\(\)](#), [ene.views.gui.WindowView.render\(\)](#), [ene.views.gui.partial.LibraryView.render\(\)](#), and [ene.views.gui.partial.PlayerView.render\(\)](#).

Here is the caller graph for this function:



7.7.2.5 setLayoutPosition()

```
void ene.views.AbstractView< CoreComponentType >.setLayoutPosition (
    String layoutPosition )
```

Sets the layout position.

Parameters

<i>layoutPosition</i>	Layout position.
-----------------------	------------------

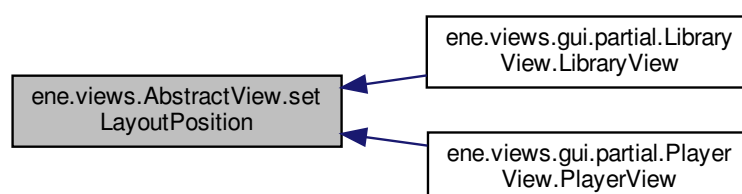
Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 48 of file `AbstractView.java`.

References `ene.views.AbstractView< CoreComponentType >.layoutPosition`.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, and `ene.views.gui.partial.PlayerView.PlayerView()`.

Here is the caller graph for this function:



7.7.2.6 setTitle()

```
void ene.views.AbstractView< CoreComponentType >.setTitle (
    String title )
```

Sets the title.

Parameters

<i>title</i>	Title.
--------------	--------

Since

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 28 of file AbstractView.java.

References [ene.views.AbstractView< CoreComponentType >.title](#).

Referenced by [ene.views.gui.partial.LibraryView.LibraryView\(\)](#).

Here is the caller graph for this function:



7.7.3 Member Data Documentation

7.7.3.1 coreComponent

```
CoreComponentType ene.views.AbstractView< CoreComponentType >.coreComponent [protected]
```

Core component instance.

Definition at line 20 of file AbstractView.java.

Referenced by [ene.views.AbstractView< CoreComponentType >.getCoreComponent\(\)](#), and [ene.views.AbstractView< CoreComponentType >.setCoreComponent\(\)](#).

7.7.3.2 `layoutPosition`

```
String ene.views.AbstractView< CoreComponentType >.layoutPosition [protected]
```

Layout position.

Definition at line 25 of file `AbstractView.java`.

Referenced by `ene.views.AbstractView< CoreComponentType >.getLayoutPosition()`, and `ene.views.AbstractView< CoreComponentType >.setLayoutPosition()`.

7.7.3.3 `title`

```
String ene.views.AbstractView< CoreComponentType >.title = "" [protected]
```

Title.

Definition at line 15 of file `AbstractView.java`.

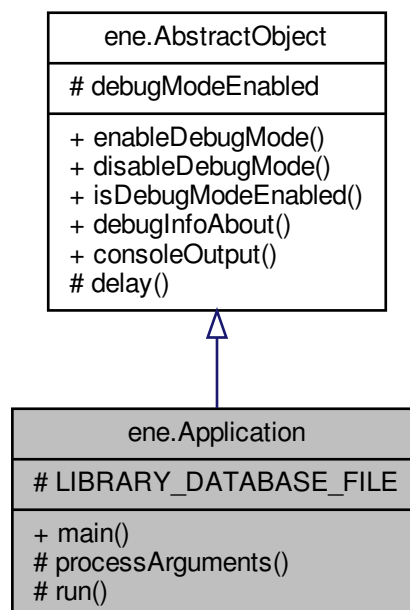
Referenced by `ene.views.AbstractView< CoreComponentType >.getTitle()`, `ene.views.gui.partial.LibraryView.render()`, and `ene.views.AbstractView< CoreComponentType >.setTitle()`.

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

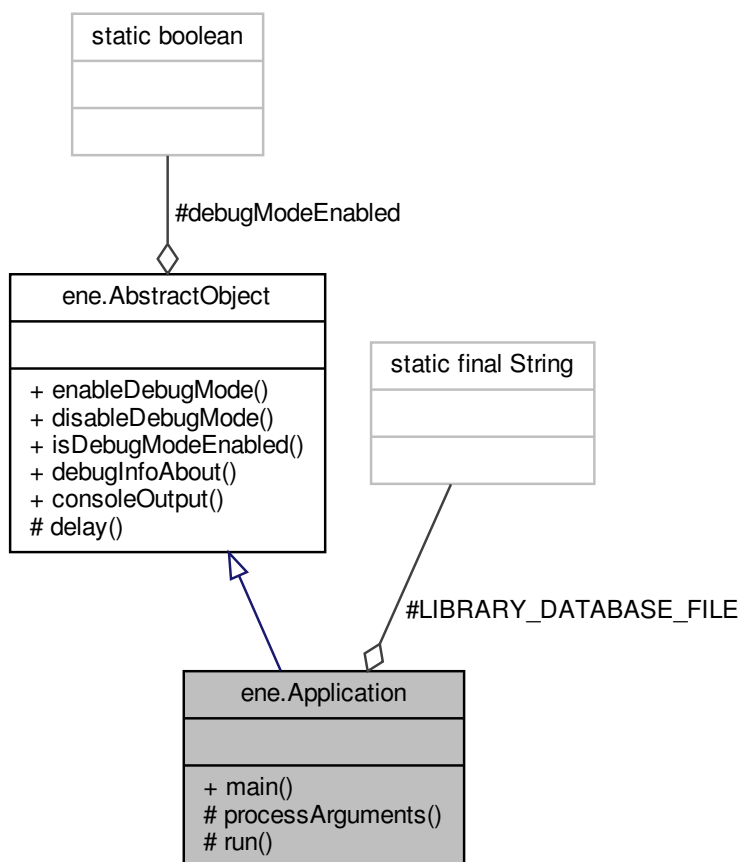
- `src/ene/views/AbstractView.java`

7.8 ene.Application Class Reference

Inheritance diagram for `ene.Application`:



Collaboration diagram for ene.Application:



Static Public Member Functions

- static void `main` (String args[])

Static Protected Member Functions

- static void `processArguments` (String arguments[])
- static void `run` ()

Static Protected Attributes

- static final String `LIBRARY_DATABASE_FILE` = "library.db"

Additional Inherited Members

7.8.1 Detailed Description

Bootstrap class.

Since

0.8.0

Version

1.2.0

Definition at line 21 of file Application.java.

7.8.2 Member Function Documentation

7.8.2.1 main()

```
static void ene.Application.main (  
    String args[] ) [static]
```

Entry point.

Parameters

<i>args</i>	Arguments.
-------------	------------

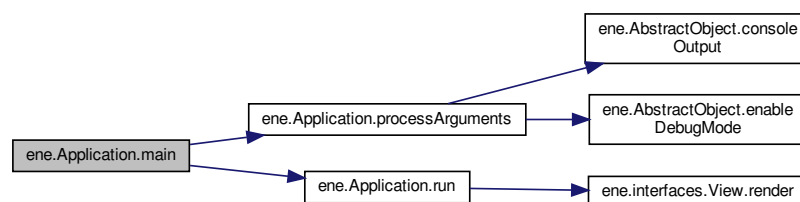
Version

1.0.0

Definition at line 33 of file Application.java.

References ene.Application.processArguments(), and ene.Application.run().

Here is the call graph for this function:



7.8.2.2 processArguments()

```
static void ene.Application.processArguments (  
    String arguments[] ) [static], [protected]
```

Processes arguments.

Parameters

<i>arguments</i>	Arguments.
------------------	------------

Version

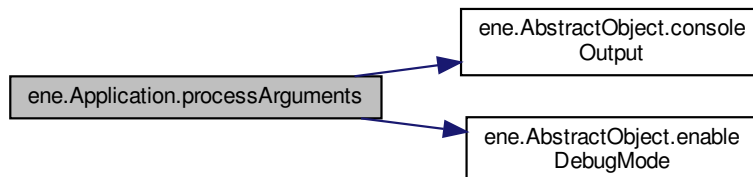
1.0.0

Definition at line 43 of file Application.java.

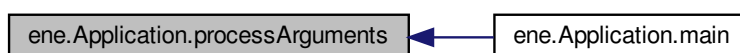
References ene.AbstractObject.consoleOutput(), and ene.AbstractObject.enableDebugMode().

Referenced by ene.Application.main().

Here is the call graph for this function:



Here is the caller graph for this function:



7.8.2.3 run()

```
static void ene.Application.run ( ) [static], [protected]
```

Runs application.

Version

1.1.0

Definition at line 64 of file Application.java.

References ene.interfaces.View< CoreComponentType >.render().

Referenced by ene.Application.main().

Here is the call graph for this function:



Here is the caller graph for this function:



7.8.3 Member Data Documentation

7.8.3.1 LIBRARY_DATABASE_FILE

```
final String ene.Application.LIBRARY_DATABASE_FILE = "library.db" [static], [protected]
```

Library database file name.

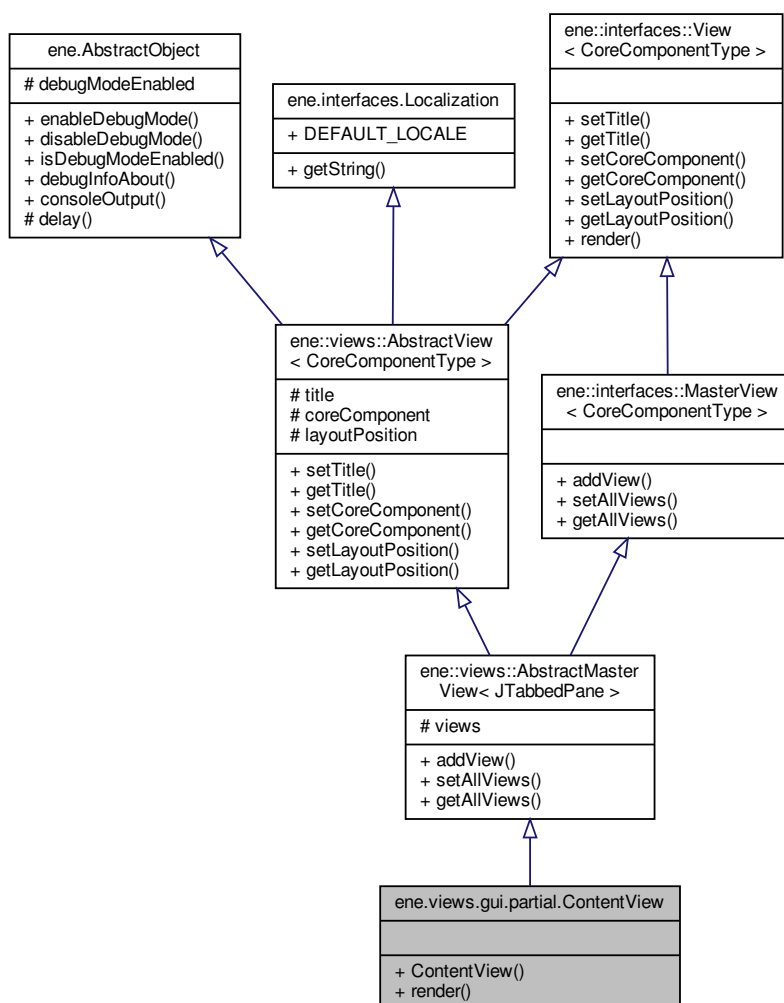
Definition at line 25 of file Application.java.

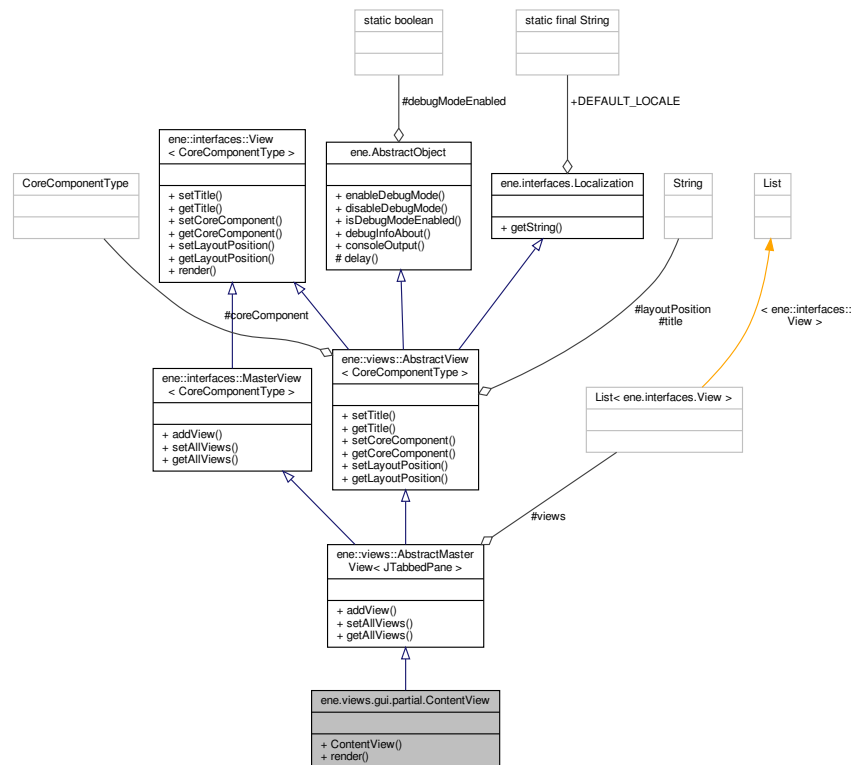
The documentation for this class was generated from the following file:

- src/ene/[Application.java](#)

7.9 ene.views.gui.partial.ContentView Class Reference

Inheritance diagram for ene.views.gui.partial.ContentView:





- ContentView (View ... views)
- void render ()

7.9.1 Detailed Description

Version

Since
0.13.0

Generated on Sat Aug 10 2019 16:15:46 for Ene by Doxygen

7.9.2 Constructor & Destructor Documentation

7.9.2.1 ContentView()

```
ene.views.gui.partial.ContentView.ContentView (
    View ... views )
```

Constructor.

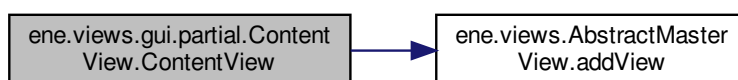
Parameters

<i>views</i>	View instances.
--------------	-----------------

Definition at line 18 of file ContentView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.addView()`.

Here is the call graph for this function:



7.9.3 Member Function Documentation

7.9.3.1 render()

```
void ene.views.gui.partial.ContentView.render ( )
```

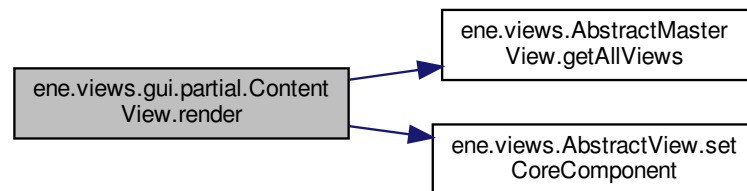
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 25 of file ContentView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.getAllViews()`, and `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`.

Here is the call graph for this function:

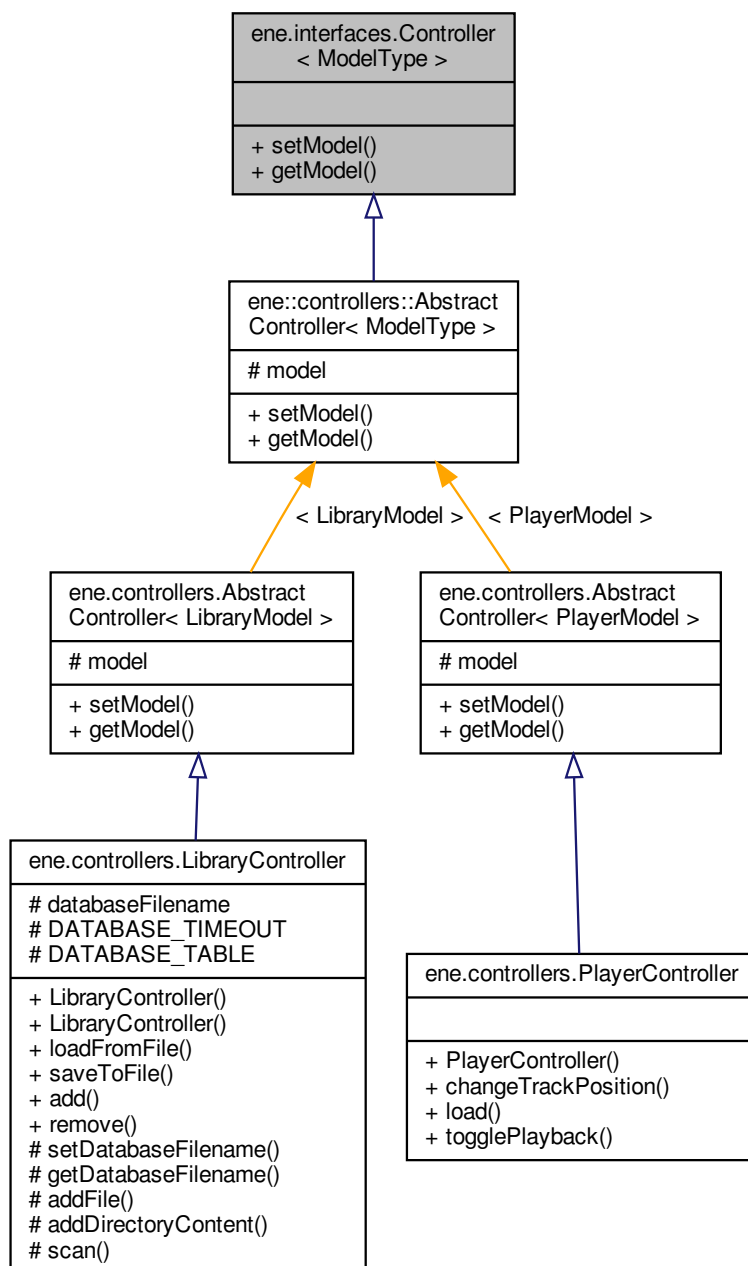


The documentation for this class was generated from the following file:

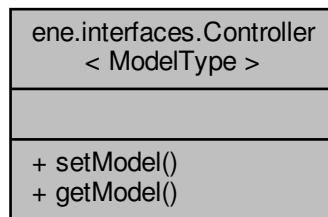
- `src/ene/views/gui/partial/ContentView.java`

7.10 ene.interfaces.Controller< ModelType > Interface Template Reference

Inheritance diagram for ene.interfaces.Controller< ModelType >:



Collaboration diagram for ene.interfaces.Controller< ModelType >:



Public Member Functions

- void [setModel](#) ([Model](#) model)
- [ModelType](#) [getModel](#) ()

7.10.1 Detailed Description

[Controller](#).

Version

1.0.0

Definition at line 9 of file `Controller.java`.

7.10.2 Member Function Documentation

7.10.2.1 [getModel\(\)](#)

`ModelType` [ene.interfaces.Controller](#)< `ModelType` >.getModel ()

Returns the model instance.

Returns

[Model](#) instance.

Implemented in [ene.controllers.AbstractController](#)< `ModelType` >.

7.10.2.2 [setModel\(\)](#)

void [ene.interfaces.Controller](#)< `ModelType` >.setModel (
 [Model](#) model)

Sets the model instance.

Parameters

<i>model</i>	Model instance.
--------------	---------------------------------

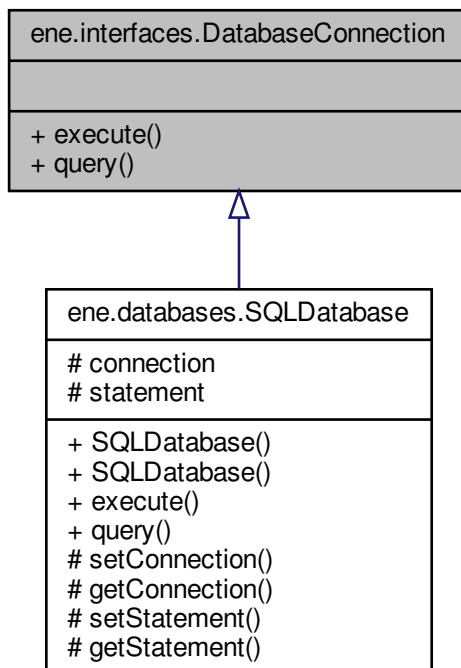
Implemented in [ene.controllers.AbstractController< ModelType >](#).

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

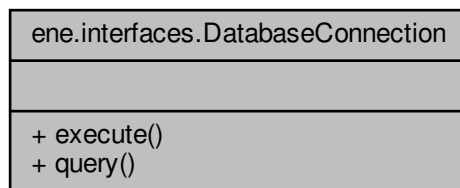
- [src/ene/interfaces/Controller.java](#)

7.11 ene.interfaces.DatabaseConnection Interface Reference

Inheritance diagram for ene.interfaces.DatabaseConnection:



Collaboration diagram for ene.interfaces.DatabaseConnection:



Public Member Functions

- int [execute](#) (String statement) throws Exception
- List< Map< String, String > > [query](#) (String statement) throws Exception

7.11.1 Detailed Description

Database connection.

Since

0.9.0

Version

1.0.0

Definition at line 11 of file DatabaseConnection.java.

7.11.2 Member Function Documentation

7.11.2.1 execute()

```
int ene.interfaces.DatabaseConnection.execute (  
    String statement ) throws Exception
```

Executes statement.

Parameters

<i>statement</i>	Statement.
------------------	------------

Returns

Number of affected rows.

Implemented in [ene.databases.SQLDatabase](#).

Referenced by `ene.controllers.LibraryController.saveToFile()`.

Here is the caller graph for this function:

**7.11.2.2 query()**

```
List<Map<String,String> > ene.interfaces.DatabaseConnection.query (
    String statement ) throws Exception
```

Query statement.

Parameters

<i>statement</i>	Statement.
------------------	------------

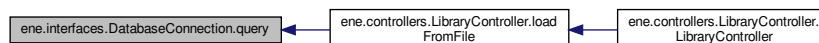
Returns

Returns a list of maps of rows.

Implemented in [ene.databases.SQLDatabase](#).

Referenced by `ene.controllers.LibraryController.loadFromFile()`.

Here is the caller graph for this function:

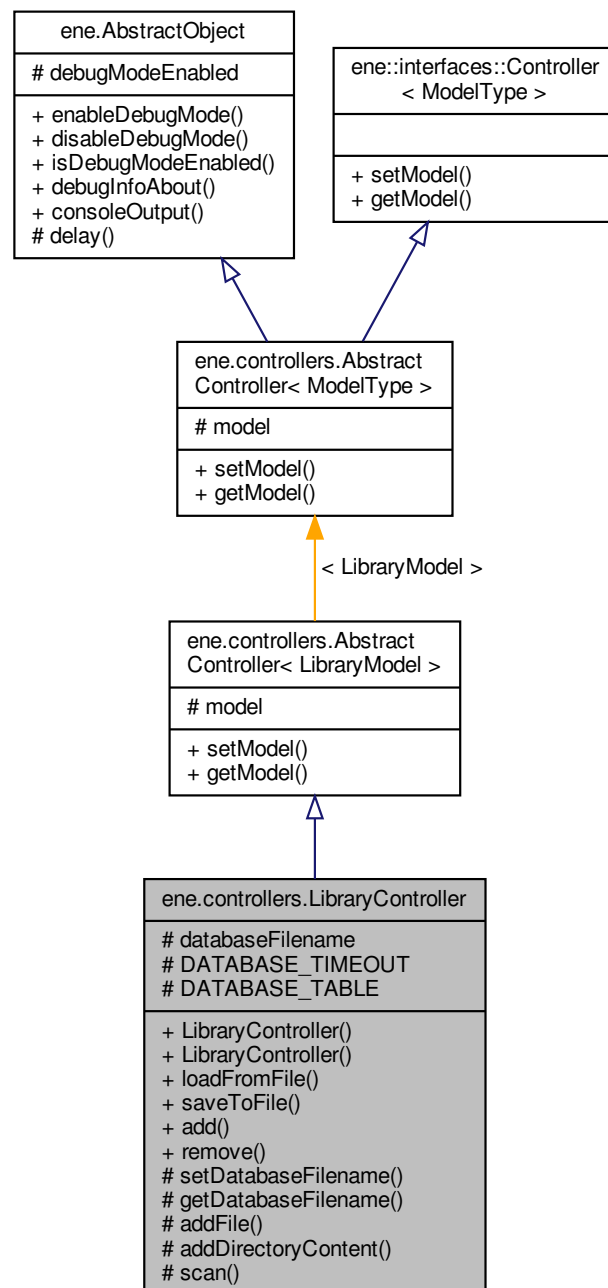


The documentation for this interface was generated from the following file:

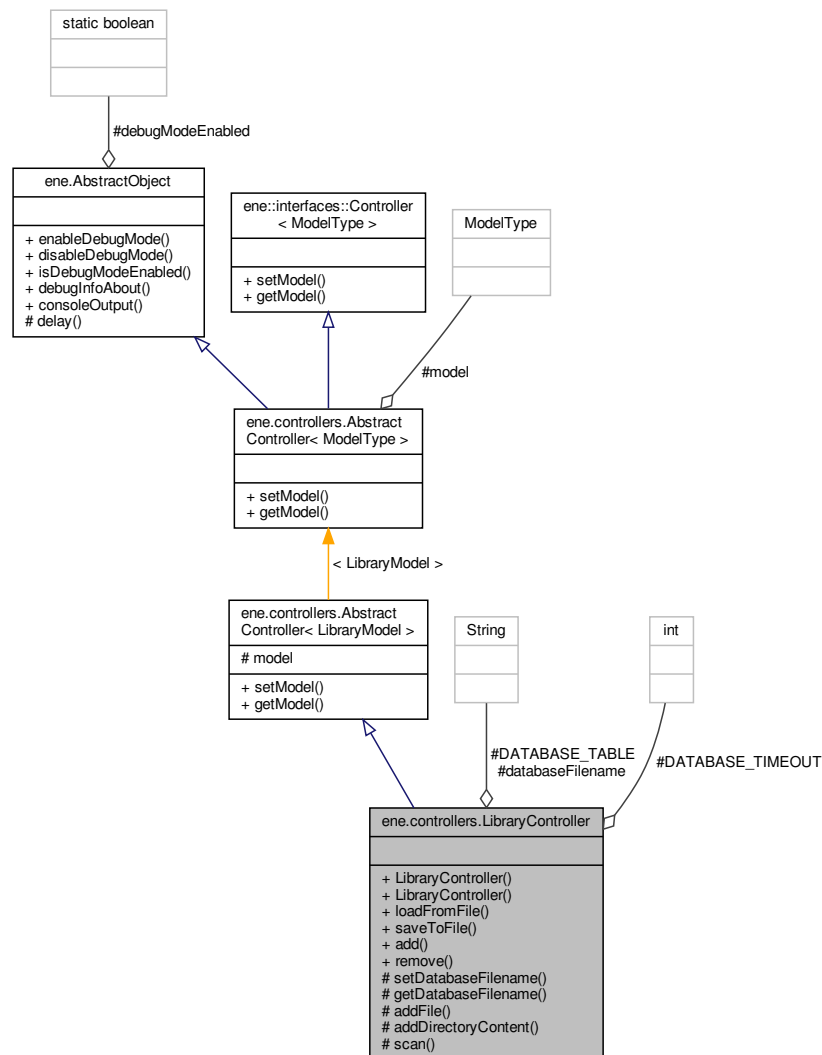
- `src/ene/interfaces/DatabaseConnection.java`

7.12 ene.controllers.LibraryController Class Reference

Inheritance diagram for ene.controllers.LibraryController:



Collaboration diagram for ene.controllers.LibraryController:



Public Member Functions

- `LibraryController (Model model)`
- `LibraryController (Model model, String databaseFilename)`
- `boolean loadFromFile (String filename)`
- `boolean saveToFile (String filename)`
- `boolean add (String filename)`
- `boolean remove (String filename)`

Protected Member Functions

- `void setDatabaseFilename (String filename)`
- `String getDatabaseFilename ()`
- `boolean addFile (File file, String ... genre)`
- `boolean addDirectoryContent (File directory)`
- `int scan (File path, String ... genre)`

Protected Attributes

- String `databaseFilename`

Static Protected Attributes

- static final int `DATABASE_TIMEOUT` = 30
- static final String `DATABASE_TABLE` = "tracks"

7.12.1 Detailed Description

Library controller.

Version

3.1.0

Definition at line 17 of file LibraryController.java.

7.12.2 Constructor & Destructor Documentation

7.12.2.1 LibraryController() [1/2]

```
ene.controllers.LibraryController.LibraryController (  
    Model model )
```

Constructor.

Parameters

<i>model</i>	Library model instance.
--------------	-------------------------

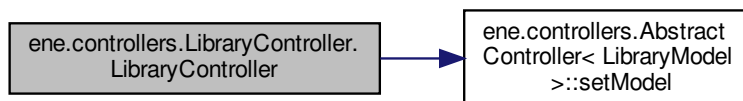
Version

1.0.0

Definition at line 56 of file LibraryController.java.

References `ene.controllers.AbstractController< LibraryModel >.setModel()`.

Here is the call graph for this function:



7.12.2.2 LibraryController() [2/2]

```
ene.controllers.LibraryController.LibraryController (
    Model model,
    String databaseFilename )
```

Constructor.

Parameters

<i>model</i>	Library model instance.
<i>databaseFilename</i>	Database file path.

Since

0.16.0

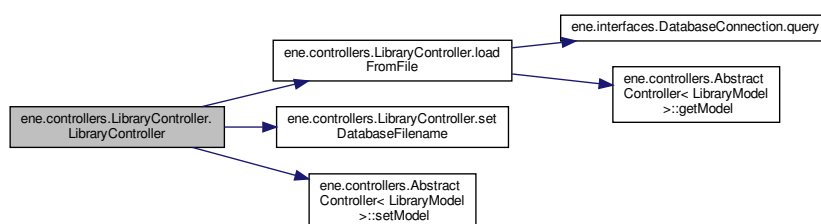
Version

1.0.0

Definition at line 67 of file LibraryController.java.

References `ene.controllers.LibraryController.loadFromFile()`, `ene.controllers.LibraryController.setDatabaseFilename()`, and `ene.controllers.AbstractController< LibraryModel >.setModel()`.

Here is the call graph for this function:



7.12.3 Member Function Documentation

7.12.3.1 add()

```
boolean ene.controllers.LibraryController.add (
    String filename )
```

Adds a file to the library.

Parameters

<i>filename</i>	File path.
-----------------	------------

Returns

Returns TRUE, if successful. Otherwise FALSE.

Since

0.12.0

Version

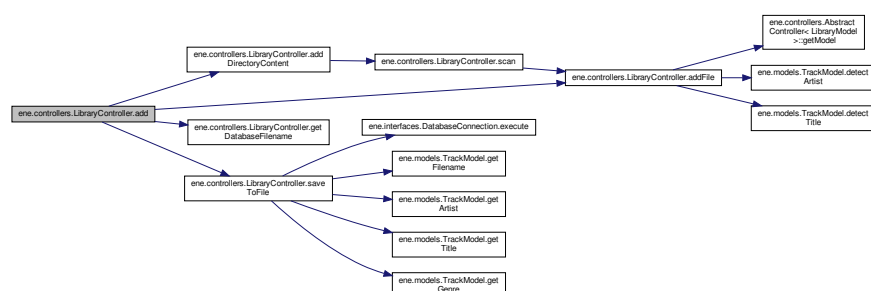
1.1.0

Definition at line 153 of file LibraryController.java.

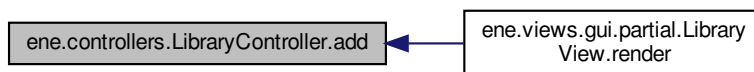
References `ene.controllers.LibraryController.addDirectoryContent()`, `ene.controllers.LibraryController.addFile()`, `ene.controllers.LibraryController.getDatabaseFilename()`, and `ene.controllers.LibraryController.saveToFile()`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.12.3.2 addDirectoryContent()

```
boolean ene.controllers.LibraryController.addDirectoryContent (
    File directory ) [protected]
```

Adds the files of a whole directory to the library.

Parameters

<i>directory</i>	File instance of the directory.
------------------	---------------------------------

Returns

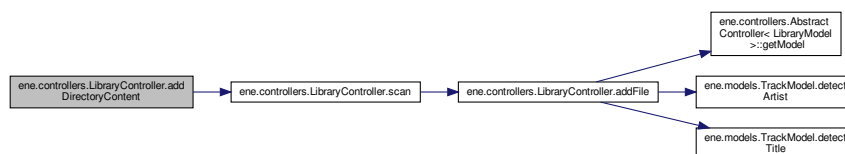
Returns TRUE, if successful. Otherwise FALSE.

Definition at line 210 of file LibraryController.java.

References `ene.controllers.LibraryController.scan()`.

Referenced by `ene.controllers.LibraryController.add()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.12.3.3 addFile()

```
boolean ene.controllers.LibraryController.addFile (
    File file,
    String ... genre ) [protected]
```

Adds a file to the library.

Parameters

<i>file</i>	File instance.
<i>genre</i>	Given track genre (Optional, for internal usage only).

Returns

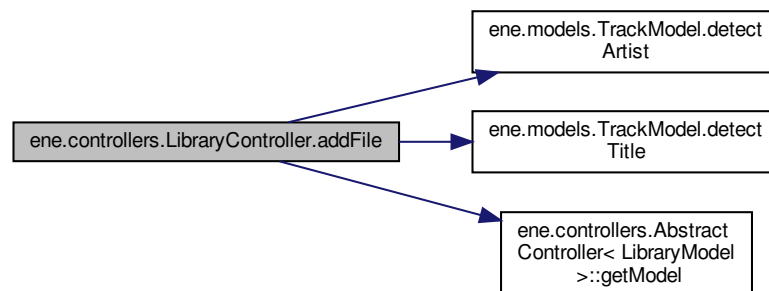
Returns TRUE, if successful. Otherwise FALSE.

Definition at line 189 of file LibraryController.java.

References `ene.models.TrackModel.detectArtist()`, `ene.models.TrackModel.detectTitle()`, and `ene.controllers.↔ AbstractController< LibraryModel >.getModel()`.

Referenced by `ene.controllers.LibraryController.add()`, and `ene.controllers.LibraryController.scan()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.12.3.4 `getDatabaseFilename()`

```
String ene.controllers.LibraryController.getDatabaseFilename ( ) [protected]
```

Returns the database file path.

Returns

Database file path.

Since

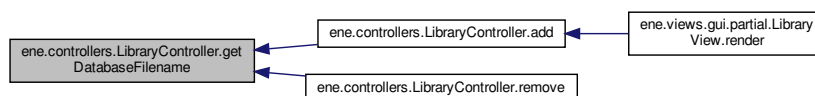
0.16.0

Definition at line 47 of file LibraryController.java.

References `ene.controllers.LibraryController.databaseFilename`.

Referenced by `ene.controllers.LibraryController.add()`, and `ene.controllers.LibraryController.remove()`.

Here is the caller graph for this function:



7.12.3.5 `loadFromFile()`

```
boolean ene.controllers.LibraryController.loadFromFile (
    String filename )
```

Loads the model from a file.

Parameters

<i>filename</i>	File path.
-----------------	------------

Returns

Returns TRUE if successful. Otherwise FALSE.

Since

0.16.0

Version

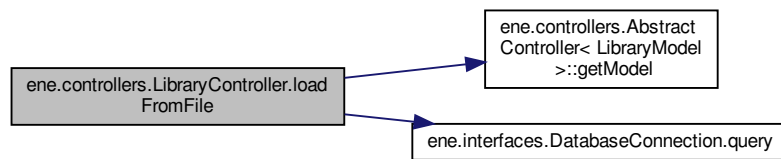
1.0.0

Definition at line 80 of file LibraryController.java.

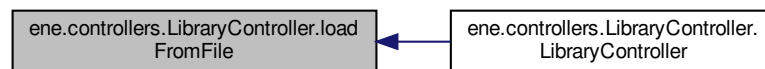
References `ene.controllers.AbstractController< LibraryModel >.getModel()`, and `ene.interfaces.DatabaseConnection.query()`.

Referenced by `ene.controllers.LibraryController.LibraryController()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.12.3.6 remove()

```
boolean ene.controllers.LibraryController.remove (
    String filename )
```

Removes a file from the library.

Parameters

<i>filename</i>	File path.
-----------------	------------

Returns

Returns TRUE, if successful. Otherwise FALSE.

Since

0.10.0

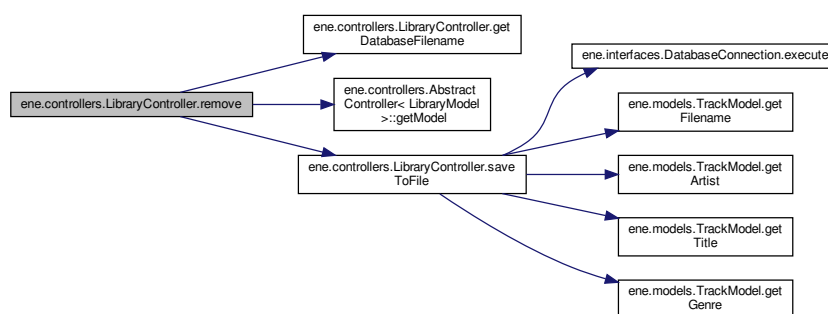
Version

1.1.0

Definition at line 175 of file LibraryController.java.

References ene.controllers.LibraryController.getDatabaseFilename(), ene.controllers.AbstractController< LibraryModel >.getModel(), and ene.controllers.LibraryController.saveToFile().

Here is the call graph for this function:

**7.12.3.7 saveToFile()**

```
boolean ene.controllers.LibraryController.saveToFile (
    String filename )
```

Save the model to a file.

Parameters

<i>filename</i>	File path.
-----------------	------------

Returns

Returns TRUE if successful. Otherwise FALSE.

Since

0.16.0

Version

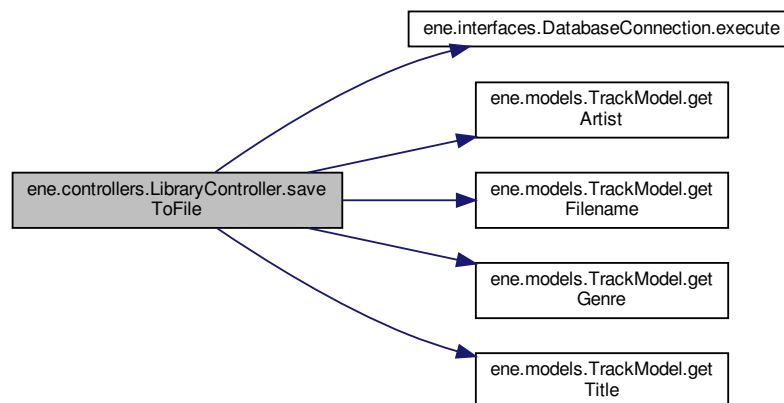
1.0.0

Definition at line 123 of file LibraryController.java.

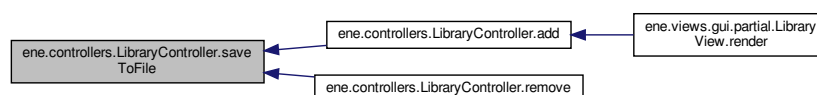
References ene.interfaces.DatabaseConnection.execute(), ene.models.TrackModel.getArtist(), ene.models.TrackModel.getFilename(), ene.models.TrackModel.getGenre(), and ene.models.TrackModel.getTitle().

Referenced by ene.controllers.LibraryController.add(), and ene.controllers.LibraryController.remove().

Here is the call graph for this function:



Here is the caller graph for this function:



7.12.3.8 scan()

```

int ene.controllers.LibraryController.scan (
    File path,
    String ... genre ) [protected]
  
```

Scans and adds files recursively.

Parameters

<i>path</i>	File instance of the path.
<i>genre</i>	Given track genre (Optional, for internal usage only).

Returns

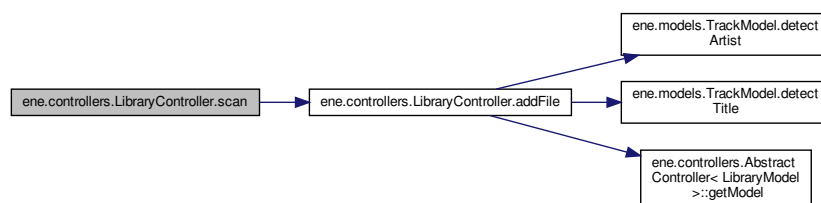
Returns the amount of added files.

Definition at line 224 of file LibraryController.java.

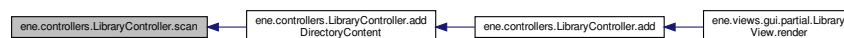
References ene.controllers.LibraryController.addFile().

Referenced by ene.controllers.LibraryController.addDirectoryContent().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.12.3.9 setDatabaseFilename()**

```
void ene.controllers.LibraryController.setDatabaseFilename (
    String filename ) [protected]
```

Sets the database file path.

Parameters

<i>filename</i>	Database file path.
-----------------	---------------------

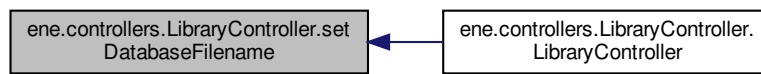
Since

0.16.0

Definition at line 38 of file LibraryController.java.

Referenced by ene.controllers.LibraryController.LibraryController().

Here is the caller graph for this function:



7.12.4 Member Data Documentation

7.12.4.1 DATABASE_TABLE

```
final String ene.controllers.LibraryController.DATABASE_TABLE = "tracks" [static], [protected]
```

Database table name.

Definition at line 26 of file `LibraryController.java`.

7.12.4.2 DATABASE_TIMEOUT

```
final int ene.controllers.LibraryController.DATABASE_TIMEOUT = 30 [static], [protected]
```

Database connection timeout in seconds.

Definition at line 21 of file `LibraryController.java`.

7.12.4.3 databaseFilename

```
String ene.controllers.LibraryController.databaseFilename [protected]
```

Database file path.

Definition at line 31 of file `LibraryController.java`.

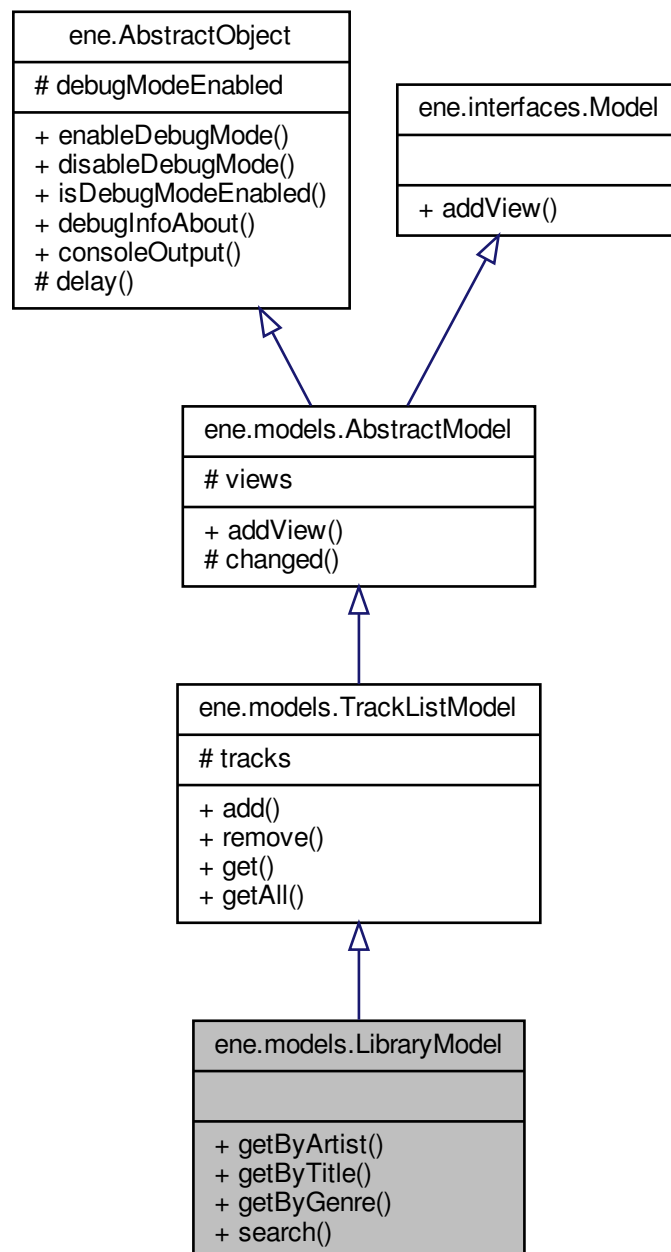
Referenced by `ene.controllers.LibraryController.getDatabaseFilename()`.

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

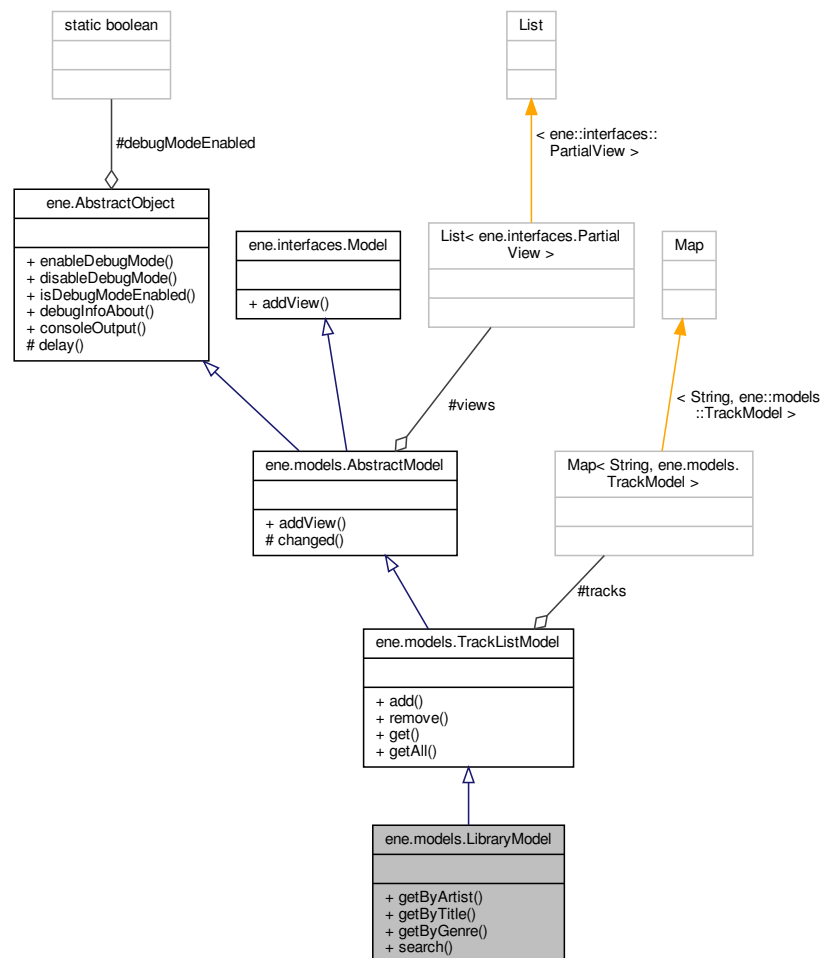
- `src/ene/controllers/LibraryController.java`

7.13 ene.models.LibraryModel Class Reference

Inheritance diagram for ene.models.LibraryModel:



Collaboration diagram for ene.models.LibraryModel:



Public Member Functions

- `Map<String, TrackModel>` `getByArtist` (String artist)
- `Map<String, TrackModel>` `getByTitle` (String title)
- `Map<String, TrackModel>` `getByGenre` (String genre)
- `Map<String, TrackModel>` `search` (String title, String artist, String genre)

Additional Inherited Members

7.13.1 Detailed Description

Library model.

Version

4.1.0

Definition at line 12 of file `LibraryModel.java`.

7.13.2 Member Function Documentation

7.13.2.1 `getByArtist()`

```
Map<String, TrackModel> ene.models.LibraryModel.getByArtist (
    String artist )
```

Returns all tracks by an particular artist.

Parameters

<i>artist</i>	Artist.
---------------	---------

Returns

Tracks.

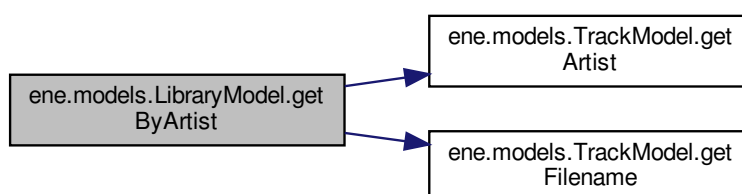
Since

0.10.0

Definition at line 19 of file LibraryModel.java.

References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, and `ene.models.TrackListModel.tracks`.

Here is the call graph for this function:



7.13.2.2 `getByGenre()`

```
Map<String, TrackModel> ene.models.LibraryModel.getByGenre (
    String genre )
```

Returns all tracks from a particular genre.

Parameters

<i>genre</i>	Genre.
--------------	--------

Returns

Tracks.

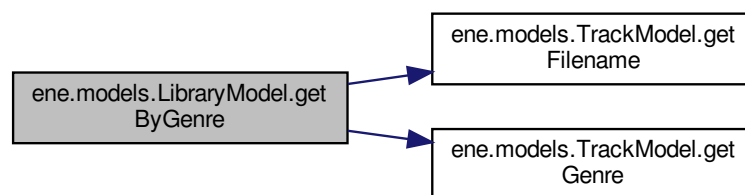
Since

0.10.0

Definition at line 53 of file LibraryModel.java.

References `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, and `ene.models.Track↔ListModel.tracks`.

Here is the call graph for this function:

**7.13.2.3 getByTitle()**

```
Map<String, TrackModel> ene.models.LibraryModel.getByTitle (
    String title )
```

Returns all tracks with a particular title.

Parameters

<i>title</i>	Title.
--------------	--------

Returns

Tracks.

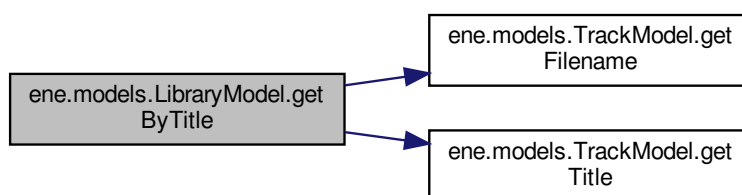
Since

0.10.0

Definition at line 36 of file LibraryModel.java.

References ene.models.TrackModel.getFilename(), ene.models.TrackModel.getTitle(), and ene.models.TrackList↔Model.tracks.

Here is the call graph for this function:



7.13.2.4 search()

```
Map<String, TrackModel> ene.models.LibraryModel.search (
    String title,
    String artist,
    String genre )
```

Returns all matching tracks.

Parameters

<i>title</i>	Title.
<i>artist</i>	Artist.
<i>genre</i>	Genre.

Returns

Map of tracks and it's absolute file path.

Since

0.15.0

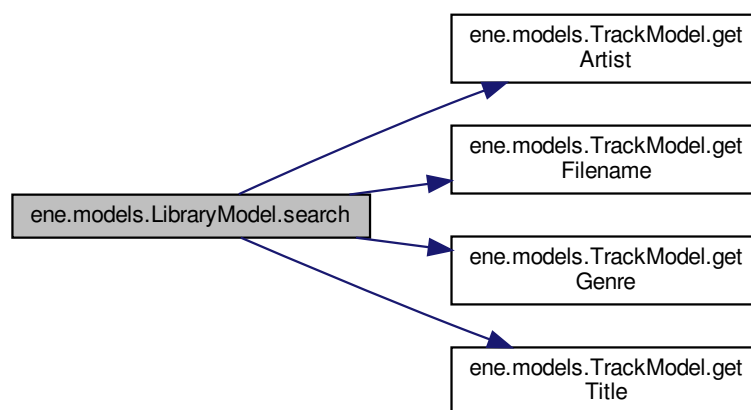
Version

1.0.0

Definition at line 73 of file LibraryModel.java.

References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, `ene.models.TrackModel.getTitle()`, and `ene.models.TrackListModel.tracks`.

Here is the call graph for this function:

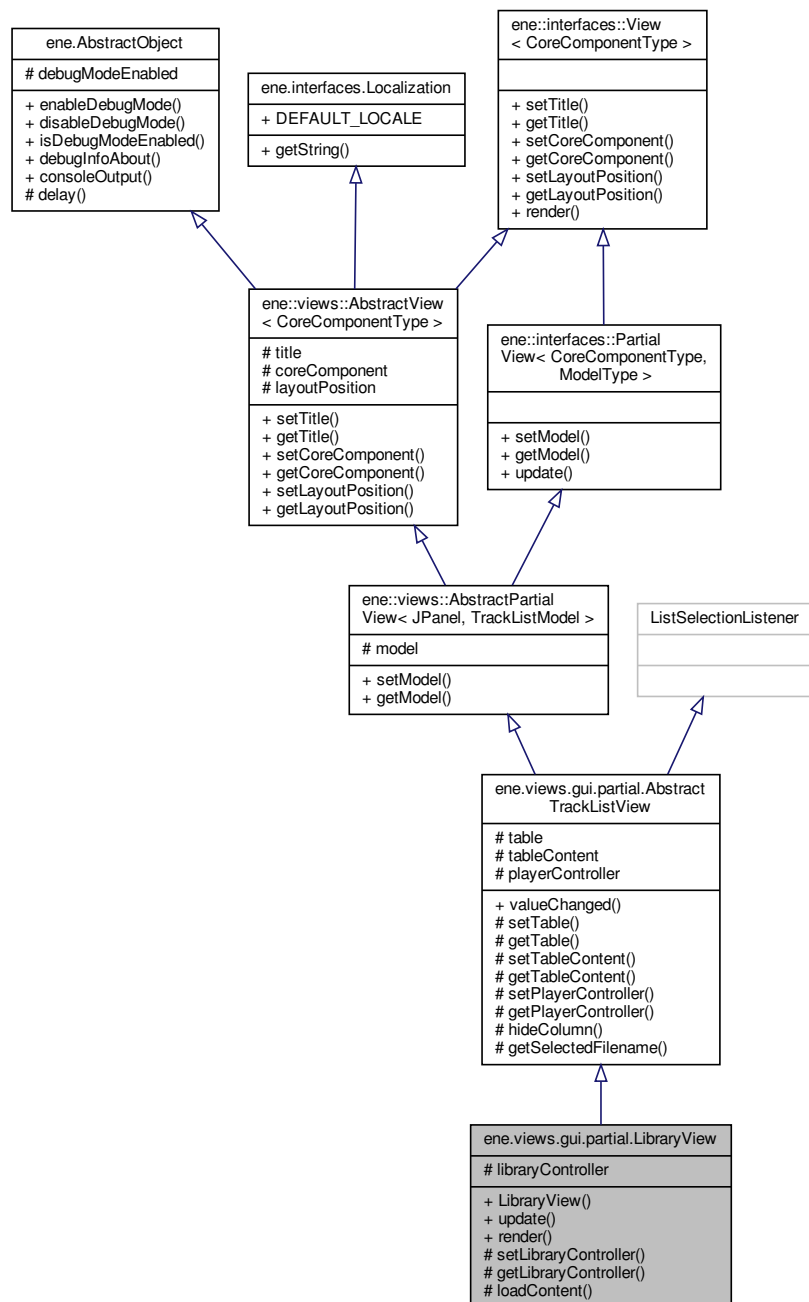


The documentation for this class was generated from the following file:

- [src/ene/models/LibraryModel.java](#)

7.14 ene.views.gui.partial.LibraryView Class Reference

Inheritance diagram for ene.views.gui.partial.LibraryView:



The UML class diagram illustrates the architecture of the ENE framework, showing the relationships between various classes and interfaces. The diagram is organized into several layers and components:

- Static Constants:**
 - `static boolean` with attribute `#debugModeEnabled`.
 - `static final String` with attribute `+DEFAULT_LOCALE`.
- Interfaces and Abstract Classes:**
 - `ene.interfaces.Controller < ModelType >` (Abstract Class) with methods `+ setModel()` and `+ getModel()`.
 - `ene.interfaces.Localization` (Abstract Class) with method `+ getString()`.
 - `ene.interfaces.View < CoreComponentType >` (Abstract Class) with methods `+ setTitle()`, `+ getTitle()`, `+ setCoreComponent()`, `+ getCoreComponent()`, `+ setLayoutPosition()`, `+ getLayoutPosition()`, and `+ render()`.
 - `ene.interfaces.Partial View< CoreComponentType, ModelType >` (Abstract Class) with methods `+ setModel()`, `+ getModel()`, and `+ update()`.
- Core Classes:**
 - `ene.AbstractObject` (Base Class) with methods `+ enableDebugMode()`, `+ disableDebugMode()`, `+ isDebugModeEnabled()`, `+ debugInfoAbout()`, `+ consoleOutput()`, and `# delay()`.
 - `ene.views.AbstractView < CoreComponentType >` (Base Class) with methods `+ setTitle()`, `+ getTitle()`, `+ setCoreComponent()`, `+ getCoreComponent()`, `+ setLayoutPosition()`, and `+ getLayoutPosition()`.
 - `ene.controllers.AbstractController < ModelType >` (Base Class) with methods `+ setModel()` and `+ getModel()`.
- Concrete Classes and Implementations:**
 - `ene.controllers.LibraryModel < PlayerModel >` (Concrete Class) implementing `ene.controllers.AbstractController < LibraryModel >`.
 - `ene.controllers.PlayerModel < PlayerModel >` (Concrete Class) implementing `ene.controllers.AbstractController < PlayerModel >`.
 - `ene.views.AbstractPartial View< JPanel, TrackListModel >` (Base Class) with methods `+ setModel()` and `+ getModel()`.
 - `ene.controllers.LibraryController` (Concrete Class) implementing `ene.controllers.AbstractController` and `ene.views.AbstractView`. It has attributes `#DATABASE_TABLE` (type `#databaseFileName`) and `#DATABASE_TIMEOUT` (type `int`).
 - `ene.controllers.PlayerController` (Concrete Class) implementing `ene.controllers.AbstractController` and `ene.views.AbstractView`. It has methods `+ PlayerController()`, `+ changeTrackPosition()`, `+ load()`, and `+ logghePlayback()`.
 - `DefaultTableModel` (Concrete Class) implementing `ene.views.AbstractView`.
 - `JTable` (Concrete Class) implementing `ene.views.AbstractView`.
 - `ListSelectionListener` (Concrete Class) implementing `ene.views.AbstractView`.
 - `ene.views.gui.partial.Abstract TrackListView` (Concrete Class) implementing `ene.views.AbstractView` and `ene.controllers.LibraryController`. It has methods `+ valueChanged()`, `# setTable()`, `# getTable()`, `# setTableContent()`, `# getTableContent()`, `# setPlayerController()`, `# getPlayerController()`, `# hideColumn()`, and `# getSelectedFilename()`.
 - `ene.views.gui.partial.LibraryView` (Concrete Class) implementing `ene.views.AbstractView` and `ene.controllers.LibraryController`. It has methods `+ LibraryView()`, `+ update()`, `+ render()`, `# setLibraryController()`, `# getLibraryController()`, and `# loadContent()`.
- Associations and Dependencies:**
 - `ene.AbstractObject` depends on `static boolean` and `static final String`.
 - `ene.views.AbstractView` depends on `ene.interfaces.Localization` and `ene.interfaces.View`.
 - `ene.controllers.AbstractController` depends on `ene.interfaces.Controller`.
 - `ene.controllers.LibraryController` depends on `ene.controllers.LibraryModel` and `ene.controllers.PlayerModel`.
 - `ene.controllers.PlayerController` depends on `ene.controllers.PlayerModel`.
 - `ene.views.AbstractPartial View` depends on `ene.views.AbstractView`.
 - `ene.views.gui.partial.Abstract TrackListView` depends on `ene.views.AbstractPartial View` and `ene.controllers.LibraryController`.
 - `ene.views.gui.partial.LibraryView` depends on `ene.views.gui.partial.Abstract TrackListView` and `ene.controllers.LibraryController`.

- `LibraryView (Model model, Controller libraryController, Controller playerController)`
- `void update ()`
- `void render ()`

- void `setLibraryController` (Controller libraryController)
- `LibraryController` `getLibraryController` ()
- void `loadContent` (Map< String, `TrackModel` > tracks)

- LibraryController libraryController

Additional Inherited Members

7.14.1 Detailed Description

Library view.

Version

2.2.0

Since

0.13.0

Definition at line 32 of file LibraryView.java.

7.14.2 Constructor & Destructor Documentation

7.14.2.1 LibraryView()

```
ene.views.gui.partial.LibraryView.LibraryView (
    Model model,
    Controller libraryController,
    Controller playerController )
```

Constructor.

Parameters

<i>model</i>	Library model instance.
<i>libraryController</i>	Library controller instance.
<i>playerController</i>	Player controller instance.

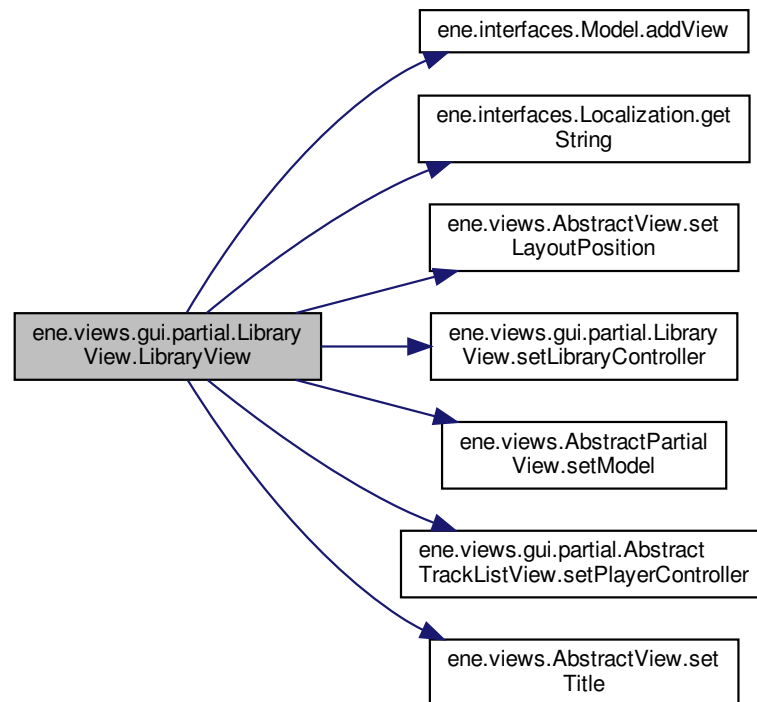
Version

1.1.0

Definition at line 61 of file LibraryView.java.

References `ene.interfaces.Model.addView()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setLayoutPosition()`, `ene.views.gui.partial.LibraryView.setLibraryController()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel()`, `ene.views.gui.partial.AbstractTrackListView.setPlayerController()`, and `ene.views.AbstractView< CoreComponentType >.setTitle()`.

Here is the call graph for this function:



7.14.3 Member Function Documentation

7.14.3.1 getLibraryController()

```
LibraryController ene.views.gui.partial.LibraryView.getLibraryController ( ) [protected]
```

Returns the library controller instance.

Returns

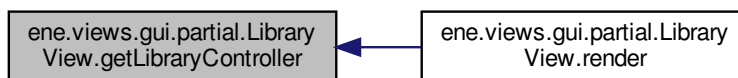
Library controller instance.

Definition at line 50 of file `LibraryView.java`.

References `ene.views.gui.partial.LibraryView.libraryController`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the caller graph for this function:



7.14.3.2 loadContent()

```
void ene.views.gui.partial.LibraryView.loadContent (
    Map< String, TrackModel > tracks ) [protected]
```

Loads the table content from the model.

Parameters

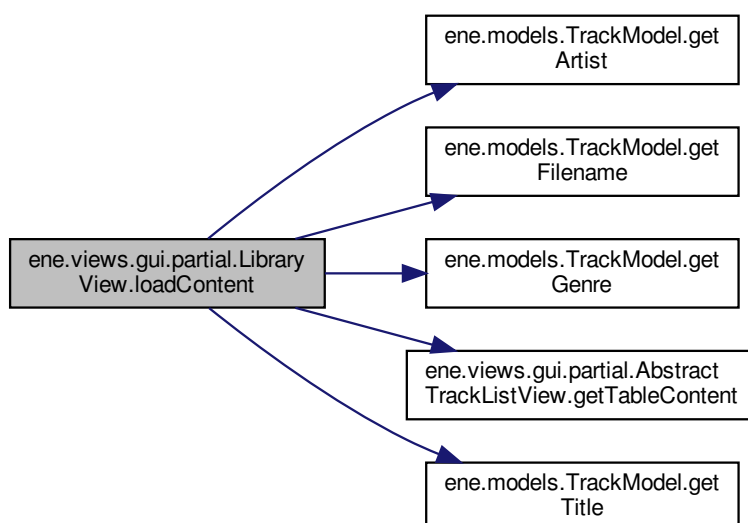
<i>tracks</i>	Map of Tracks.
---------------	----------------

Definition at line 74 of file LibraryView.java.

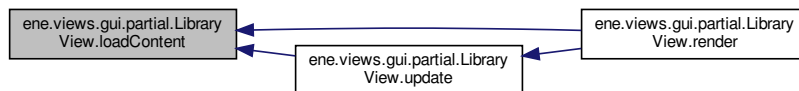
References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, `ene.views.gui.partial.AbstractTrackListView.getTableContent()`, `ene.models.TrackModel.getTitle()`, and `ene.views.gui.partial.AbstractTrackListView.tableContent`.

Referenced by `ene.views.gui.partial.LibraryView.render()`, and `ene.views.gui.partial.LibraryView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.14.3.3 render()

```
void ene.views.gui.partial.LibraryView.render ( )
```

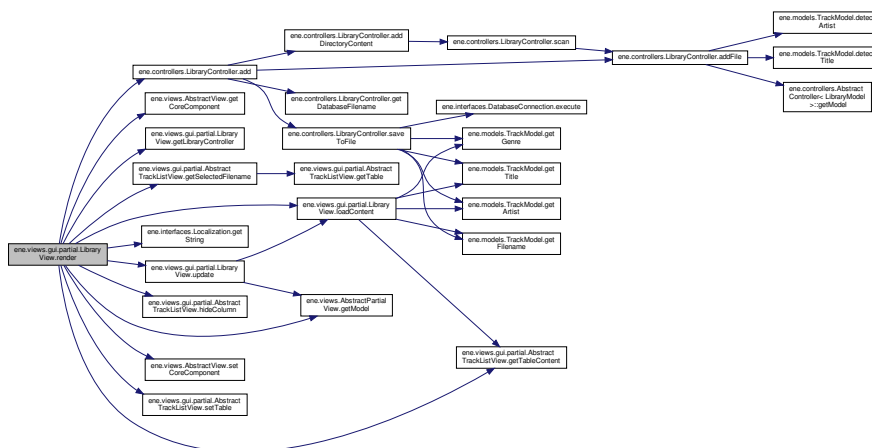
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 89 of file LibraryView.java.

References [ene.controllers.LibraryController.add\(\)](#), [ene.views.AbstractView< CoreComponentType >.getCoreComponent\(\)](#), [ene.views.gui.partial.LibraryView.getLibraryController\(\)](#), [ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel\(\)](#), [ene.views.gui.partial.AbstractTrackListView.getSelectedFilename\(\)](#), [ene.interfaces.Localization.getString\(\)](#), [ene.views.gui.partial.AbstractTrackListView.getTableContent\(\)](#), [ene.views.gui.partial.AbstractTrackListView.hideColumn\(\)](#), [ene.views.gui.partial.LibraryView.loadContent\(\)](#), [ene.views.AbstractView< CoreComponentType >.setCoreComponent\(\)](#), [ene.views.gui.partial.AbstractTrackListView.setTable\(\)](#), [ene.views.gui.partial.AbstractTrackListView.table](#), [ene.views.gui.partial.AbstractTrackListView.tableContent](#), [ene.views.AbstractView< CoreComponentType >.title](#), and [ene.views.gui.partial.LibraryView.update\(\)](#).

Here is the call graph for this function:



7.14.3.4 setLibraryController()

```
void ene.views.gui.partial.LibraryView.setLibraryController (
    Controller libraryController ) [protected]
```

Sets the library controller instance.

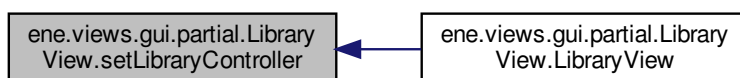
Parameters

<i>libraryController</i>	Library controller instance.
--------------------------	------------------------------

Definition at line 42 of file LibraryView.java.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`.

Here is the caller graph for this function:

7.14.3.5 `update()`

```
void ene.views.gui.partial.LibraryView.update ( )
```

Request update.

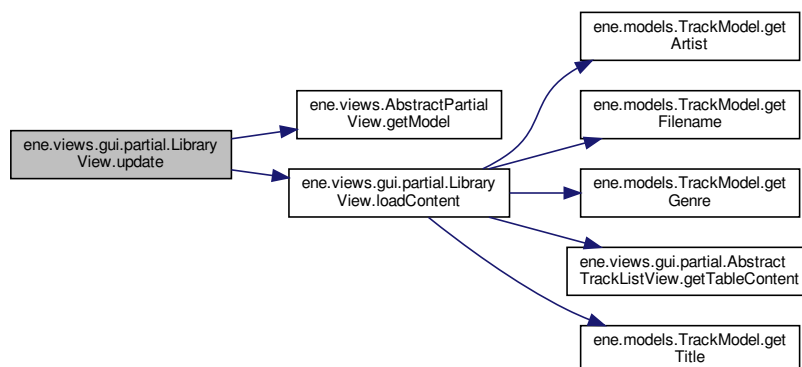
Implements [ene.interfaces.PartialView< CoreComponentType, ModelType >](#).

Definition at line 84 of file LibraryView.java.

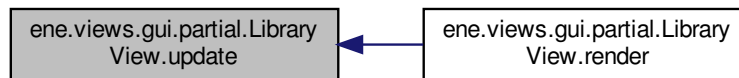
References `ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel()`, and `ene.views.gui.partial.LibraryView.loadContent()`.

Referenced by `ene.views.gui.partial.LibraryView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.14.4 Member Data Documentation

7.14.4.1 libraryController

```
LibraryController ene.views.gui.partial.LibraryView.libraryController [protected]
```

Library controller instance.

Definition at line 36 of file LibraryView.java.

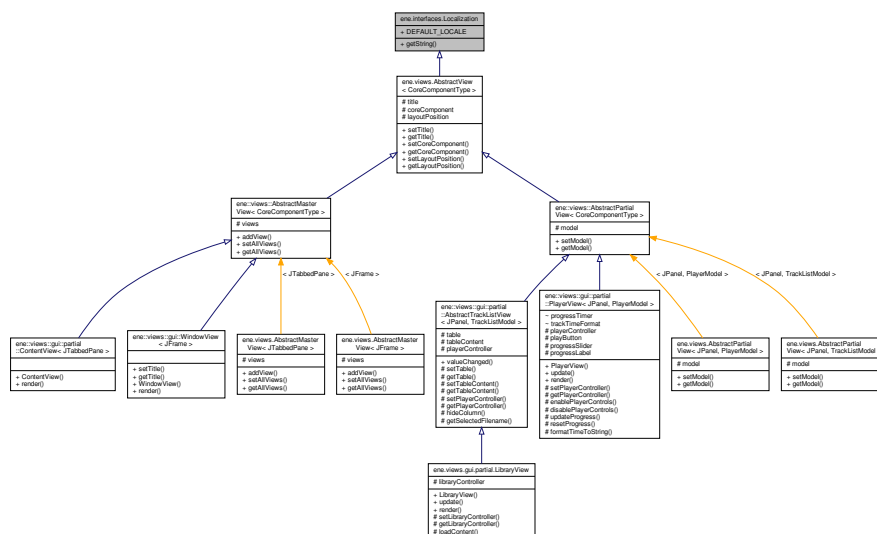
Referenced by ene.views.gui.partial.LibraryView.getLibraryController().

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

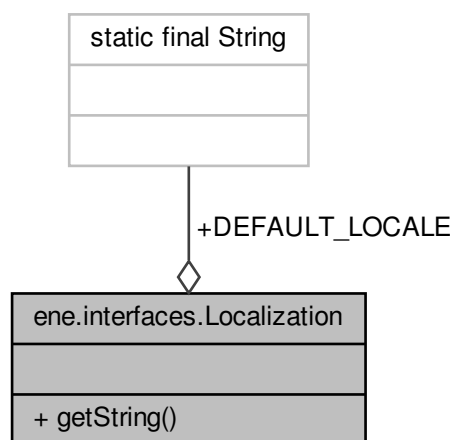
- src/ene/views/gui/partial/LibraryView.java

7.15 ene.interfaces.Localization Interface Reference

Inheritance diagram for ene.interfaces.Localization:



Collaboration diagram for ene.interfaces.Localization:



Public Member Functions

- default String [getString](#) (String stringName)

Static Public Attributes

- static final String [DEFAULT_LOCALE](#) = "en_US"

7.15.1 Detailed Description

[Localization.](#)

Version

1.0.1

Definition at line 10 of file Localization.java.

7.15.2 Member Function Documentation

7.15.2.1 getString()

```
default String ene.interfaces.Localization.getString (
    String stringName )
```

Get the localized string.

Parameters

<i>stringName</i>	String name.
-------------------	--------------

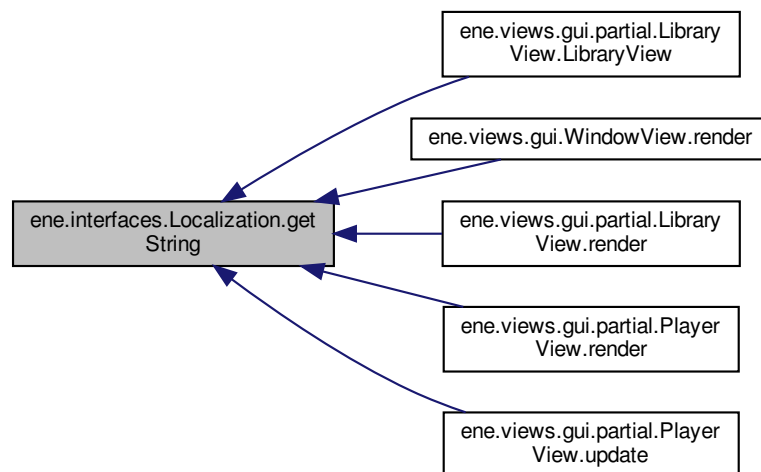
Returns

Localized string.

Definition at line 21 of file Localization.java.

Referenced by `ene.views.gui.partial.LibraryView.LibraryView()`, `ene.views.gui.WindowView.render()`, `ene.views.gui.partial.LibraryView.render()`, `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the caller graph for this function:



7.15.3 Member Data Documentation

7.15.3.1 DEFAULT_LOCALE

```
final String ene.interfaces.Localization.DEFAULT_LOCALE = "en_US" [static]
```

Default locale.

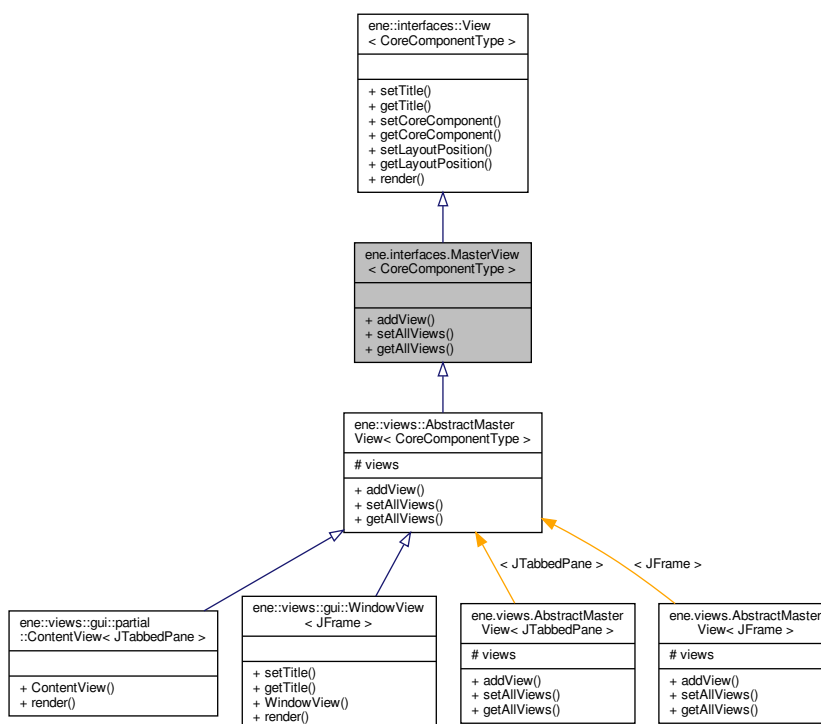
Definition at line 14 of file Localization.java.

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

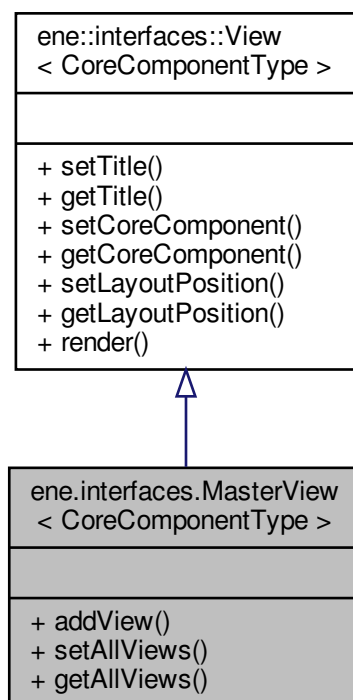
- `src/ene/interfaces/Localization.java`

7.16 ene.interfaces.MasterView< CoreComponentType > Interface Template Reference

Inheritance diagram for ene.interfaces.MasterView< CoreComponentType >:



Collaboration diagram for ene.interfaces.MasterView< CoreComponentType >:



Public Member Functions

- void `addView` (`View` view)
- void `setAllViews` (List< `View` > views)
- List< `View` > `getAllViews` ()

7.16.1 Detailed Description

Master view.

Since

0.3.0

Version

2.0.0

Definition at line 11 of file MasterView.java.

7.16.2 Member Function Documentation

7.16.2.1 addView()

```
void ene.interfaces.MasterView< CoreComponentType >.addView (
    View view )
```

Adds view instance.

Parameters

<i>view</i>	View instance.
-------------	--------------------------------

Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

7.16.2.2 getAllViews()

```
List<View> ene.interfaces.MasterView< CoreComponentType >.getAllViews ( )
```

Returns all contained view instances.

Returns

List of view instaces.

Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

7.16.2.3 setAllViews()

```
void ene.interfaces.MasterView< CoreComponentType >.setAllViews (
    List< View > views )
```

Sets all contained view instances.

Parameters

<i>views</i>	List of view instaces.
--------------	------------------------

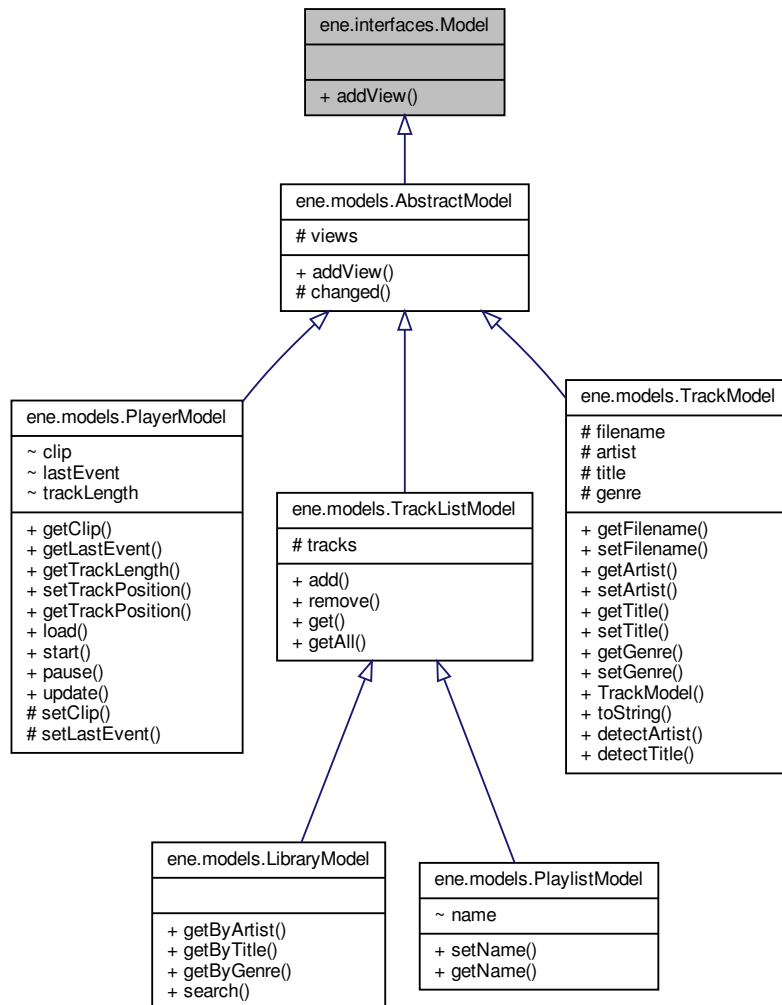
Implemented in [ene.views.AbstractMasterView< CoreComponentType >](#).

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

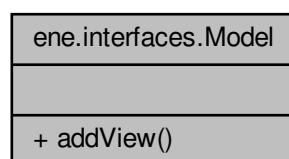
- [src/ene/interfaces/MasterView.java](#)

7.17 ene.interfaces.Model Interface Reference

Inheritance diagram for ene.interfaces.Model:



Collaboration diagram for ene.interfaces.Model:



Public Member Functions

- void [addView](#) ([PartialView](#) view)

7.17.1 Detailed Description

[Model](#).

Version

2.0.0

Definition at line 9 of file [Model.java](#).

7.17.2 Member Function Documentation

7.17.2.1 [addView\(\)](#)

```
void ene.interfaces.Model.addView (  
    PartialView view )
```

Add related view.

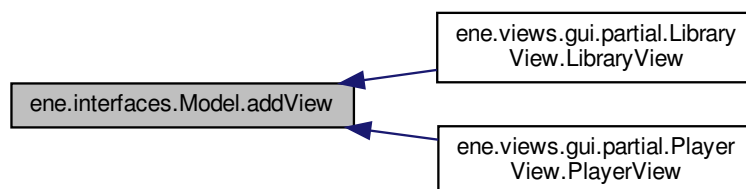
Parameters

view	View .
----------------------	------------------------

Implemented in [ene.models.AbstractModel](#).

Referenced by [ene.views.gui.partial.LibraryView.LibraryView\(\)](#), and [ene.views.gui.partial.PlayerView.PlayerView\(\)](#).

Here is the caller graph for this function:

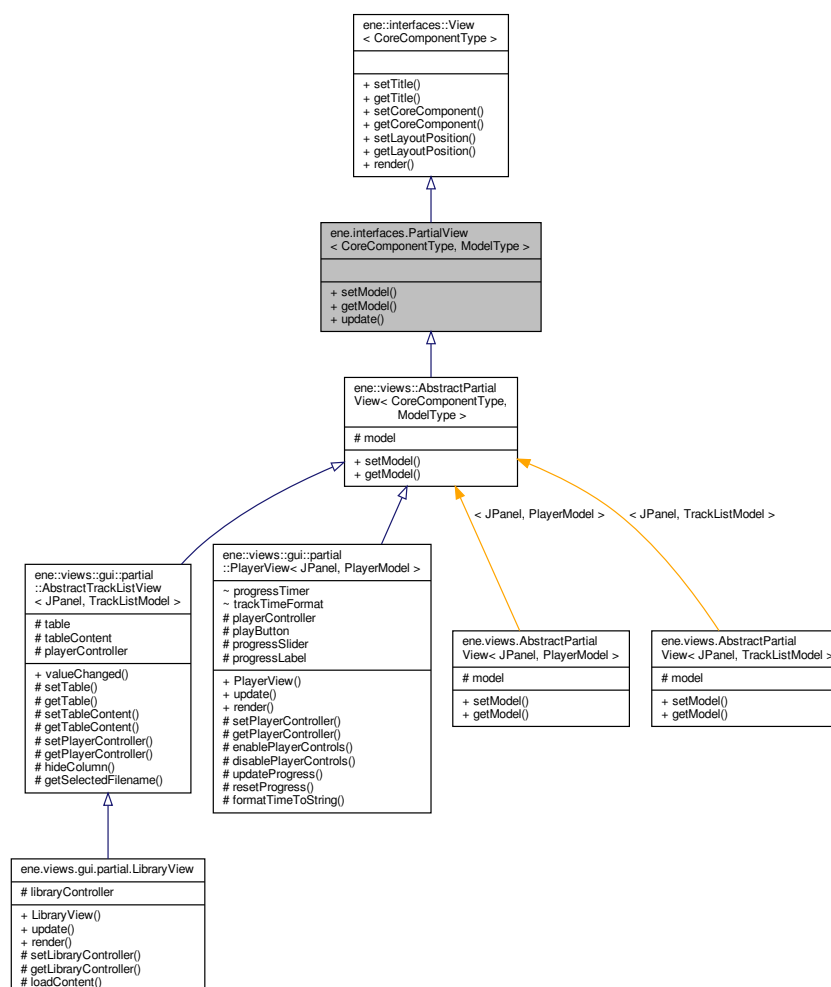


The documentation for this interface was generated from the following file:

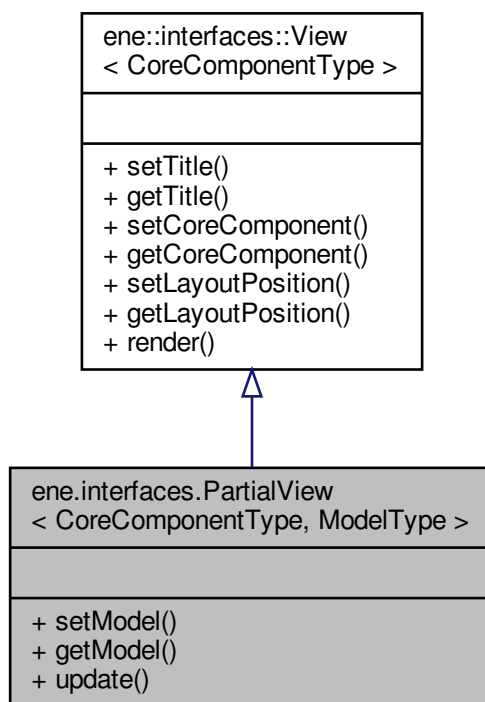
- [src/ene/interfaces/Model.java](#)

7.18 ene.interfaces.PartialView< CoreComponentType, ModelType > Interface Template Reference

Inheritance diagram for ene.interfaces.PartialView< CoreComponentType, ModelType >:



Collaboration diagram for ene.interfaces.PartialView< CoreComponentType, ModelType >:



Public Member Functions

- void [setModel](#) ([Model](#) model)
- [ModelType](#) [getModel](#) ()
- void [update](#) ()

7.18.1 Detailed Description

Partial view.

Since

0.11.0

Version

1.0.0

Definition at line 11 of file PartialView.java.

7.18.2 Member Function Documentation

7.18.2.1 getModel()

```
ModelType ene.interfaces.PartialView< CoreComponentType, ModelType >.getModel ( )
```

Returns the model instance.

Returns

[Model](#) instance.

Implemented in [ene.views.AbstractPartialView< CoreComponentType, ModelType >](#).

7.18.2.2 setModel()

```
void ene.interfaces.PartialView< CoreComponentType, ModelType >.setModel (
    Model model )
```

Sets the model instance.

Parameters

<i>model</i>	Model instance.
--------------	---------------------------------

Implemented in [ene.views.AbstractPartialView< CoreComponentType, ModelType >](#).

7.18.2.3 update()

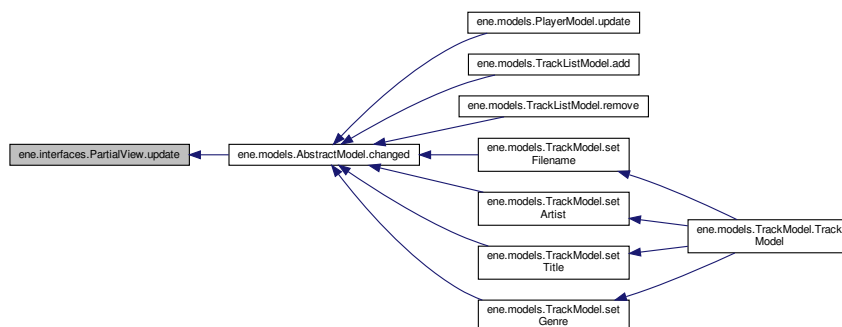
```
void ene.interfaces.PartialView< CoreComponentType, ModelType >.update ( )
```

Request update.

Implemented in [ene.views.gui.partial.PlayerView](#), and [ene.views.gui.partial.LibraryView](#).

Referenced by [ene.models.AbstractModel.changed\(\)](#).

Here is the caller graph for this function:

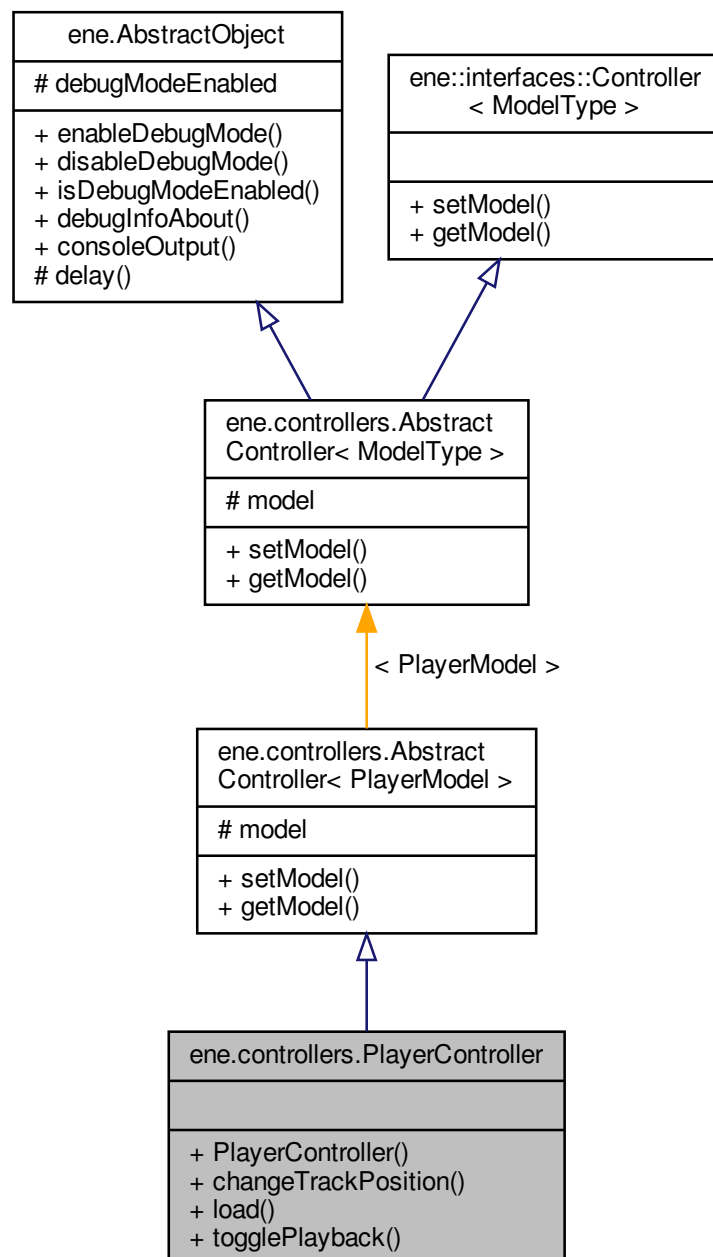


The documentation for this interface was generated from the following file:

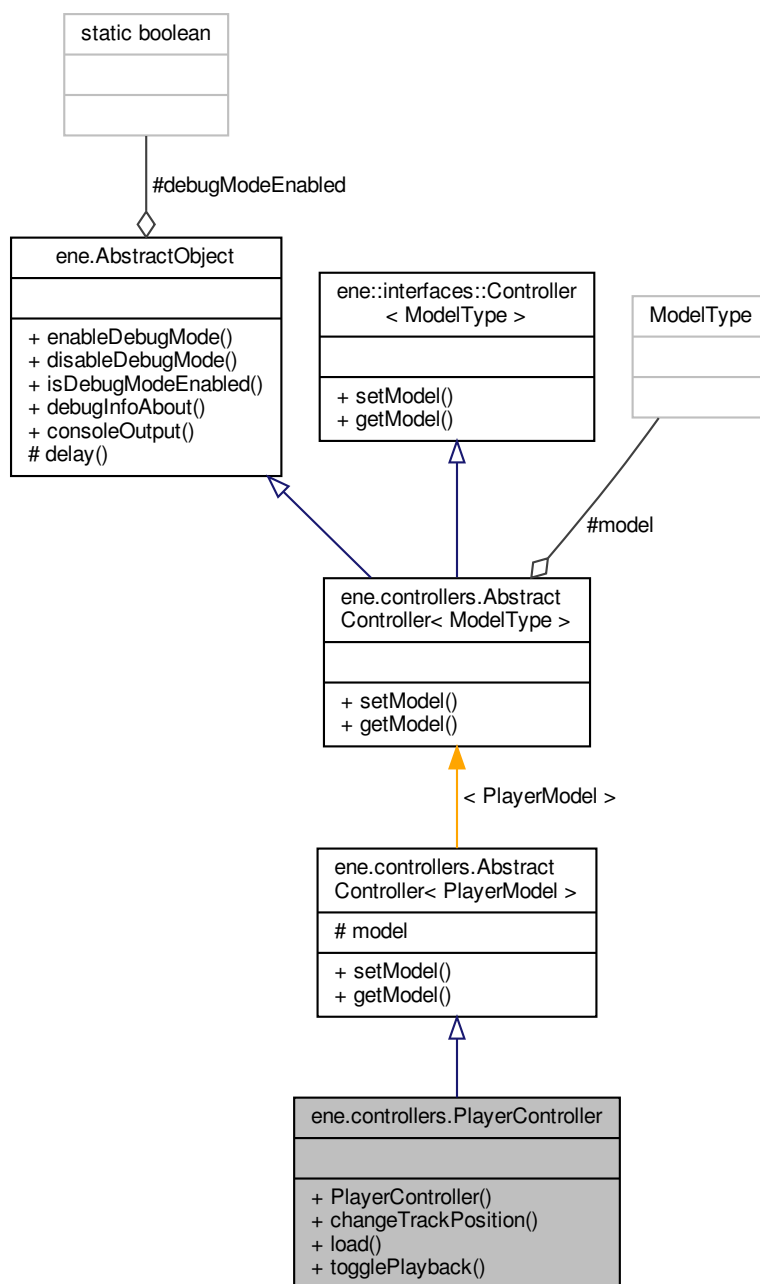
- `src/ene/interfaces/PartialView.java`

7.19 ene.controllers.PlayerController Class Reference

Inheritance diagram for ene.controllers.PlayerController:



Collaboration diagram for ene.controllers.PlayerController:



Public Member Functions

- `PlayerController (Model model)`
- `void changeTrackPosition (int newPosition)`
- `boolean load (TrackModel track)`
- `void togglePlayback ()`

Additional Inherited Members

7.19.1 Detailed Description

Player controller.

Version

1.0.0

Definition at line 13 of file PlayerController.java.

7.19.2 Constructor & Destructor Documentation

7.19.2.1 PlayerController()

```
ene.controllers.PlayerController.PlayerController (
    Model model )
```

Constructor.

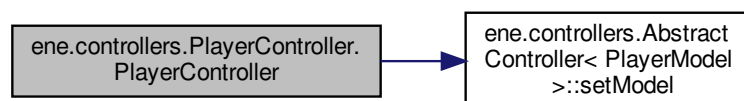
Parameters

<i>model</i>	Player model instance.
--------------	------------------------

Definition at line 18 of file PlayerController.java.

References ene.controllers.AbstractController< PlayerModel >.setModel().

Here is the call graph for this function:



7.19.3 Member Function Documentation

7.19.3.1 changeTrackPosition()

```
void ene.controllers.PlayerController.changeTrackPosition (
    int newPosition )
```

Changes the current track position.

Parameters

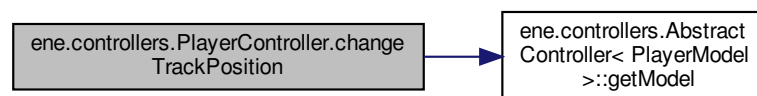
<i>newPosition</i>	New track position in seconds.
--------------------	--------------------------------

Definition at line 26 of file PlayerController.java.

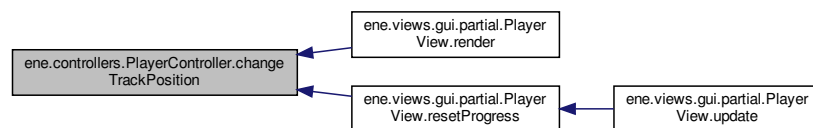
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render(), and ene.views.gui.partial.PlayerView.resetProgress().

Here is the call graph for this function:



Here is the caller graph for this function:

**7.19.3.2 load()**

```
boolean ene.controllers.PlayerController.load (
    TrackModel track )
```

Load track.

Parameters

<i>track</i>	Track instance.
--------------	-----------------

Returns

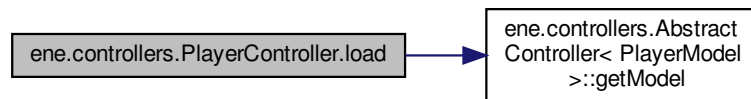
Returns TRUE, if successful. Otherwise FALSE.

Definition at line 35 of file PlayerController.java.

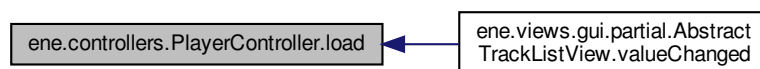
References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.AbstractTrackListView.valueChanged().

Here is the call graph for this function:



Here is the caller graph for this function:



7.19.3.3 togglePlayback()

```
void ene.controllers.PlayerController.togglePlayback ( )
```

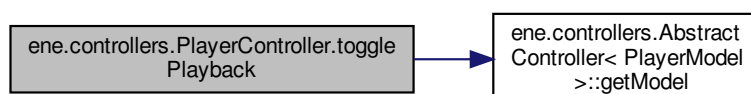
Toggle playback.

Definition at line 42 of file PlayerController.java.

References ene.controllers.AbstractController< PlayerModel >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render().

Here is the call graph for this function:



Here is the caller graph for this function:

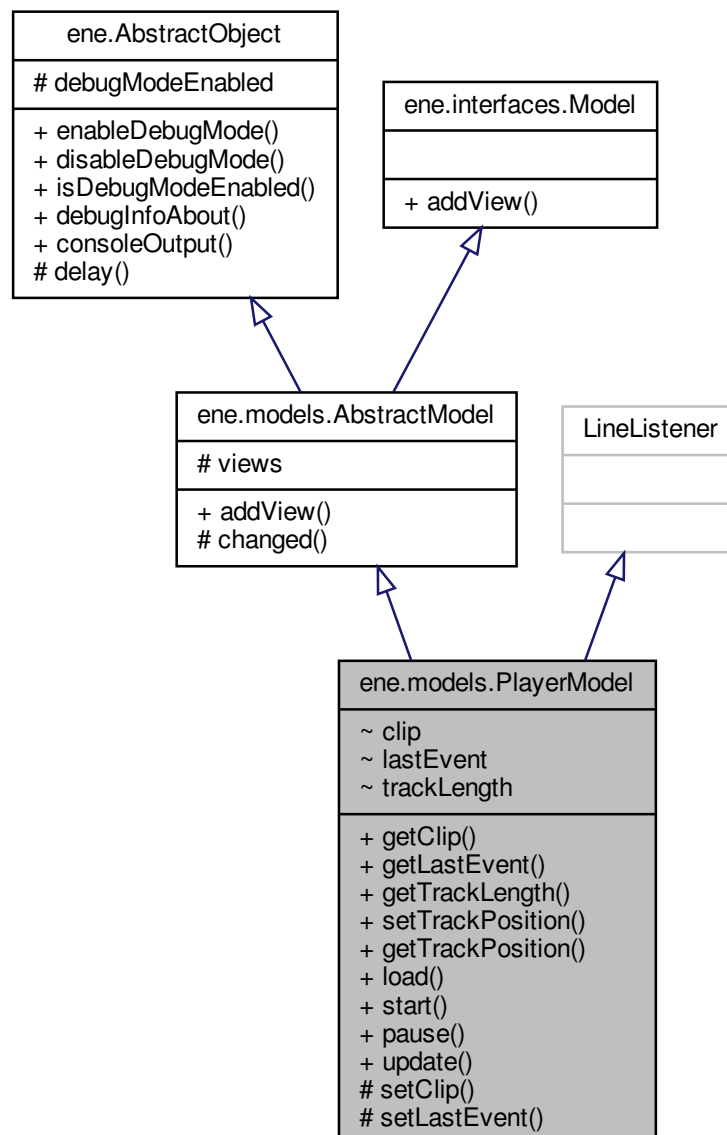


The documentation for this class was generated from the following file:

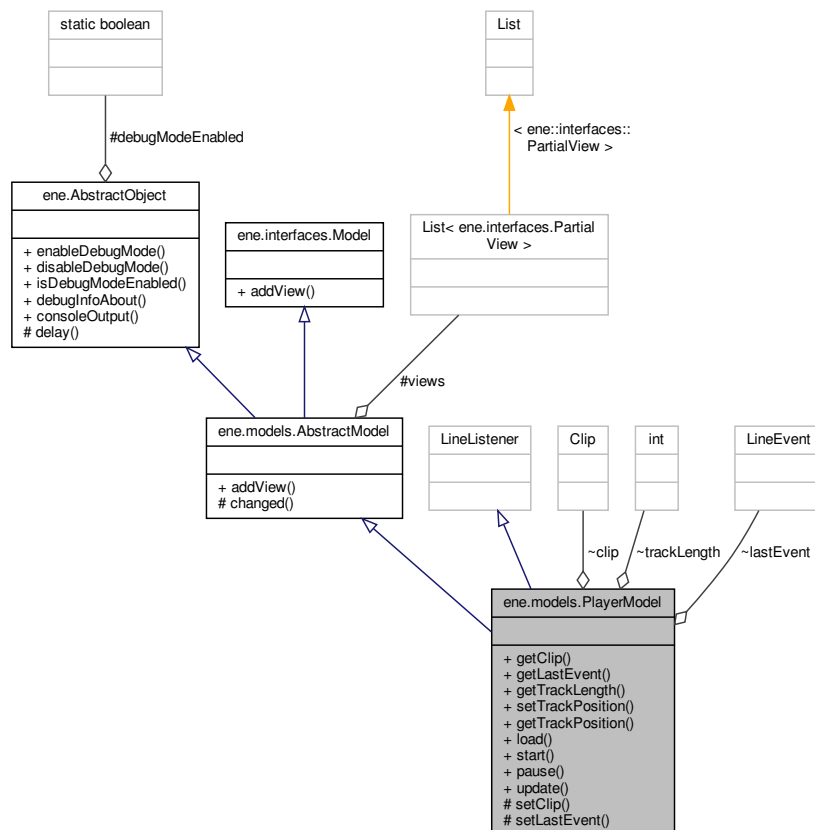
- [src/ene/controllers/PlayerController.java](#)

7.20 ene.models.PlayerModel Class Reference

Inheritance diagram for ene.models.PlayerModel:



Collaboration diagram for ene.models.PlayerModel:



Public Member Functions

- Clip `getClip()`
- LineEvent `getLastEvent()`
- int `getTrackLength()`
- void `setTrackPosition(int position)`
- int `getTrackPosition()`
- boolean `load(TrackModel track)`
- boolean `start()`
- boolean `pause()`
- void `update(LineEvent event)`

Protected Member Functions

- void `setClip(Clip clip)`
- void `setLastEvent(LineEvent event)`

Package Attributes

- Clip `clip`
- LineEvent `lastEvent`
- int `trackLength`

Additional Inherited Members

7.20.1 Detailed Description

Player model.

Version

1.0.0

Definition at line 18 of file PlayerModel.java.

7.20.2 Member Function Documentation

7.20.2.1 getClip()

```
Clip ene.models.PlayerModel.getClip ( )
```

Returns the clip.

Returns

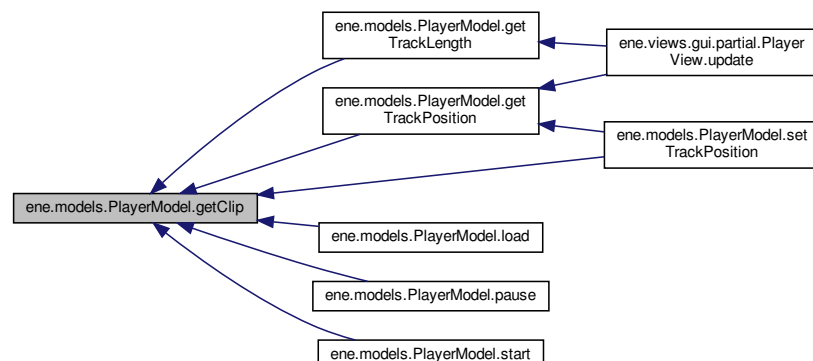
Clip instance.

Definition at line 46 of file PlayerModel.java.

References ene.models.PlayerModel.clip.

Referenced by ene.models.PlayerModel.getTrackLength(), ene.models.PlayerModel.getTrackPosition(), ene.models.PlayerModel.load(), ene.models.PlayerModel.pause(), ene.models.PlayerModel.setTrackPosition(), and ene.models.PlayerModel.start().

Here is the caller graph for this function:



7.20.2.2 getLastEvent()

```
LineEvent ene.models.PlayerModel.getLastEvent ( )
```

Returns the last event.

Returns

Line event instance.

Definition at line 62 of file PlayerModel.java.

References ene.models.PlayerModel.lastEvent.

7.20.2.3 getTrackLength()

```
int ene.models.PlayerModel.getTrackLength ( )
```

Returns the track length.

Returns

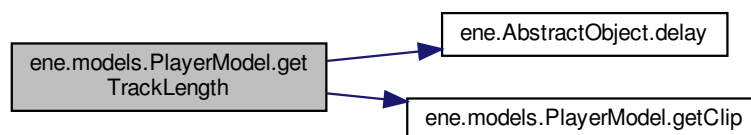
Track length in seconds.

Definition at line 70 of file PlayerModel.java.

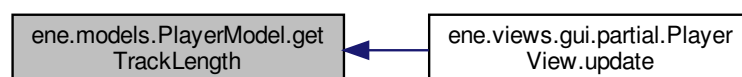
References ene.AbstractObject.delay(), and ene.models.PlayerModel.getClip().

Referenced by ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:



7.20.2.4 getTrackPosition()

```
int ene.models.PlayerModel.getTrackPosition ( )
```

Returns the current track position.

Returns

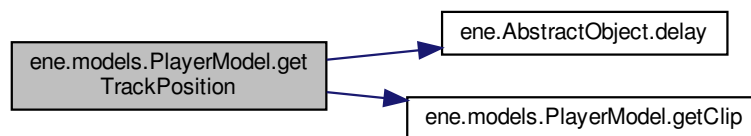
Current track position in seconds.

Definition at line 87 of file PlayerModel.java.

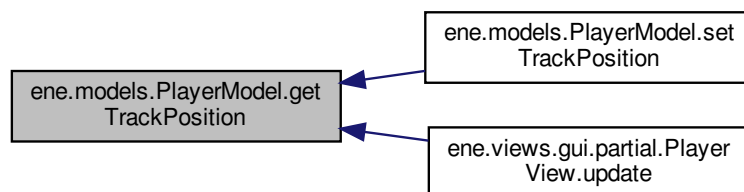
References ene.AbstractObject.delay(), and ene.models.PlayerModel.getClip().

Referenced by ene.models.PlayerModel.setTrackPosition(), and ene.views.gui.partial.PlayerView.update().

Here is the call graph for this function:



Here is the caller graph for this function:



7.20.2.5 load()

```
boolean ene.models.PlayerModel.load (
    TrackModel track )
```

Load track. Implementation inspired by: <https://www.tutorials.de/threads/kontinuierlich-laufende-hintere-359029>

Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

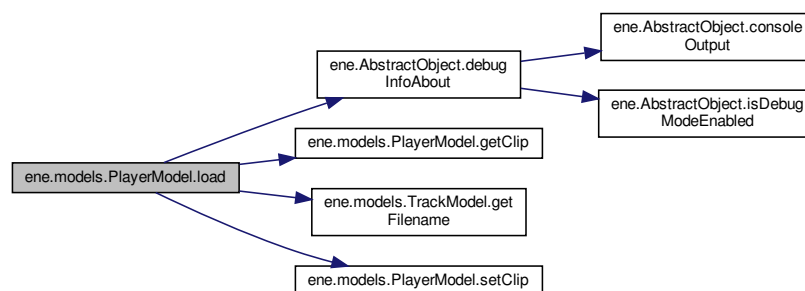
Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 98 of file PlayerModel.java.

References ene.AbstractObject.debugInfoAbout(), ene.models.PlayerModel.getClip(), ene.models.TrackModel.getFilename(), and ene.models.PlayerModel.setClip().

Here is the call graph for this function:

**7.20.2.6 pause()**

```
boolean ene.models.PlayerModel.pause ( )
```

Pause playing.

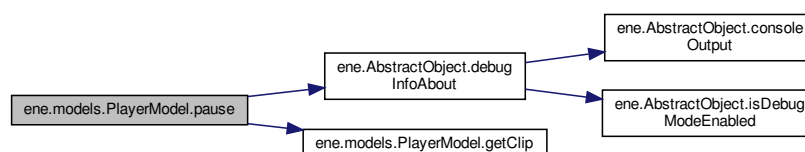
Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 140 of file PlayerModel.java.

References ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.getClip().

Here is the call graph for this function:



7.20.2.7 setClip()

```
void ene.models.PlayerModel.setClip (
    Clip clip ) [protected]
```

Sets the clip.

Parameters

<i>clip</i>	Clip instance.
-------------	----------------

Definition at line 38 of file PlayerModel.java.

References ene.models.PlayerModel.clip.

Referenced by ene.models.PlayerModel.load().

Here is the caller graph for this function:



7.20.2.8 setLastEvent()

```
void ene.models.PlayerModel.setLastEvent (
    LineEvent event ) [protected]
```

Sets the last event.

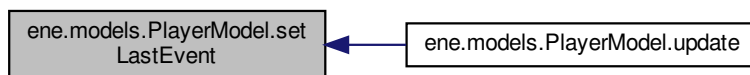
Parameters

<i>event</i>	Line event instance.
--------------	----------------------

Definition at line 54 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.update().

Here is the caller graph for this function:



7.20.2.9 setTrackPosition()

```
void ene.models.PlayerModel.setTrackPosition (
    int position )
```

Sets the current track position.

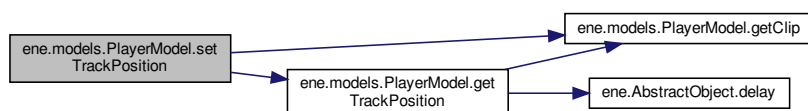
Parameters

<i>position</i>	Track position in seconds.
-----------------	----------------------------

Definition at line 79 of file PlayerModel.java.

References `ene.models.PlayerModel.getClip()`, and `ene.models.PlayerModel.getTrackPosition()`.

Here is the call graph for this function:



7.20.2.10 start()

```
boolean ene.models.PlayerModel.start ( )
```

Start playing.

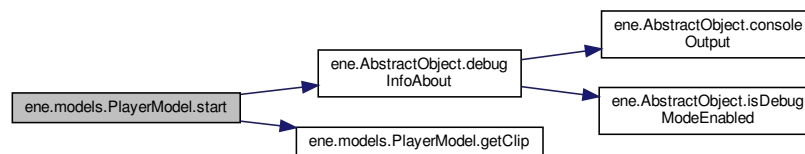
Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 126 of file PlayerModel.java.

References ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.getClip().

Here is the call graph for this function:

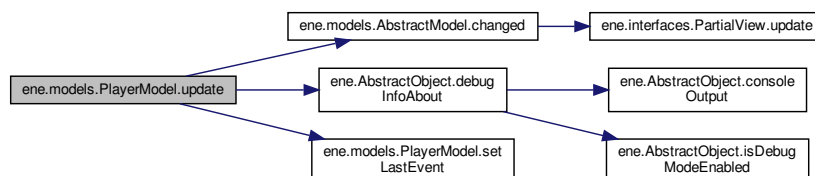
**7.20.2.11 update()**

```
void ene.models.PlayerModel.update (
    LineEvent event )
```

Definition at line 151 of file PlayerModel.java.

References ene.models.AbstractModel.changed(), ene.AbstractObject.debugInfoAbout(), and ene.models.PlayerModel.setLastEvent().

Here is the call graph for this function:

**7.20.3 Member Data Documentation****7.20.3.1 clip**

```
Clip ene.models.PlayerModel.clip [package]
```

Clip instance.

Definition at line 22 of file PlayerModel.java.

Referenced by ene.models.PlayerModel.getClip(), and ene.models.PlayerModel.setClip().

7.20.3.2 lastEvent

`LineEvent ene.models.PlayerModel.lastEvent [package]`

Line event instance.

Definition at line 27 of file PlayerModel.java.

Referenced by `ene.models.PlayerModel.getLastEvent()`.

7.20.3.3 trackLength

`int ene.models.PlayerModel.trackLength [package]`

Track length.

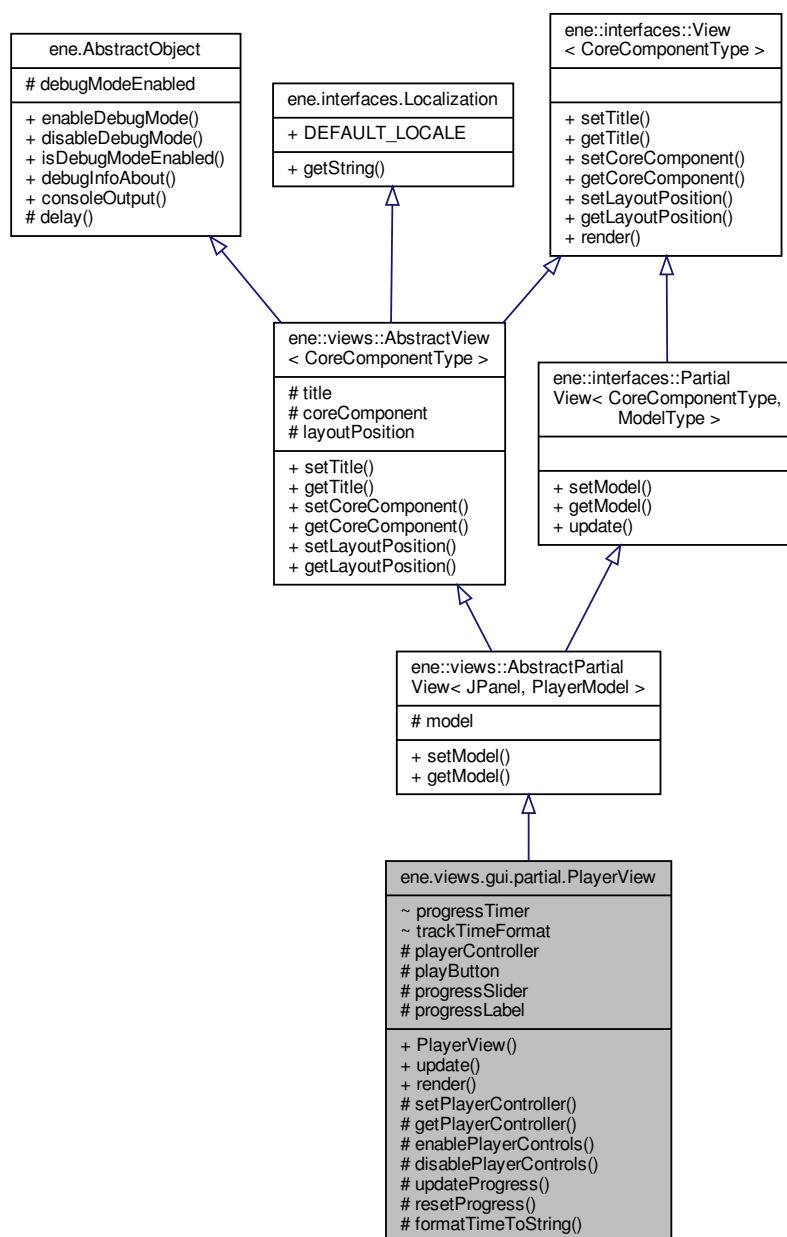
Definition at line 32 of file PlayerModel.java.

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

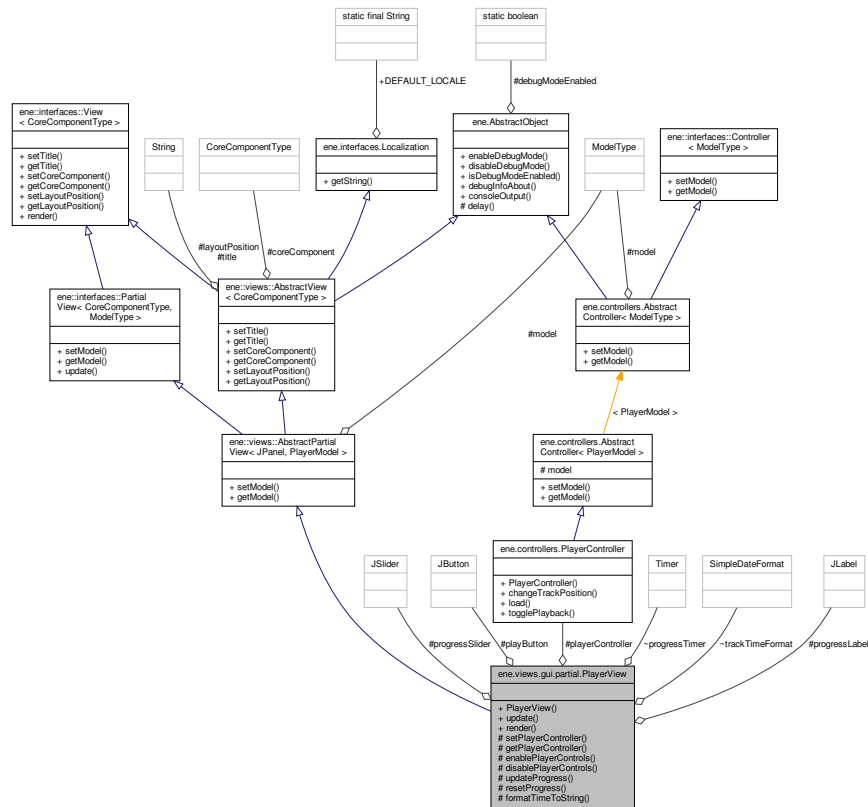
- [src/ene/models/PlayerModel.java](#)

7.21 ene.views.gui.partial.PlayerView Class Reference

Inheritance diagram for ene.views.gui.partial.PlayerView:



Collaboration diagram for ene.views.gui.partial.PlayerView:



Public Member Functions

- [PlayerView](#) ([Model model](#), [Controller playerController](#))
- void [update](#) ()
- void [render](#) ()

Protected Member Functions

- void [setPlayerController](#) ([Controller playerController](#))
- [PlayerController](#) [getPlayerController](#) ()
- void [enablePlayerControls](#) ()
- void [disablePlayerControls](#) ()
- void [updateProgress](#) ()
- void [resetProgress](#) ()
- String [formatTimeToString](#) (int timeInSeconds)

Protected Attributes

- [PlayerController](#) [playerController](#)
- JButton [playButton](#)
- JSlder [progressSlider](#)
- JLabel [progressLabel](#)

Package Attributes

- Timer [progressTimer](#)
- SimpleDateFormat [trackTimeFormat](#)

Additional Inherited Members

7.21.1 Detailed Description

Player view.

Version

2.1.1

Definition at line 26 of file `PlayerView.java`.

7.21.2 Constructor & Destructor Documentation

7.21.2.1 `PlayerView()`

```
ene.views.gui.partial.PlayerView.PlayerView (
    Model model,
    Controller playerController )
```

Constructor.

Parameters

<i>model</i>	Player model instance.
<i>playerController</i>	Player controller instance.

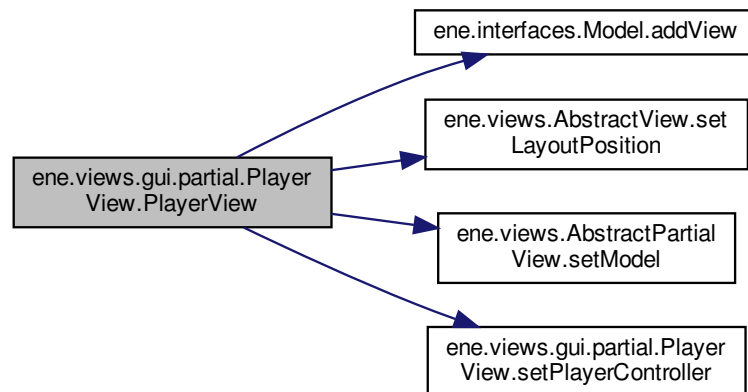
Version

1.1.0

Definition at line 79 of file `PlayerView.java`.

References `ene.interfaces.Model.addView()`, `ene.views.AbstractView< CoreComponentType >.setLayout()`, `ene.views.AbstractPartialView< CoreComponentType, ModelType >.setModel()`, and `ene.views.gui.partial.PlayerView.setPlayerController()`.

Here is the call graph for this function:



7.21.3 Member Function Documentation

7.21.3.1 disablePlayerControls()

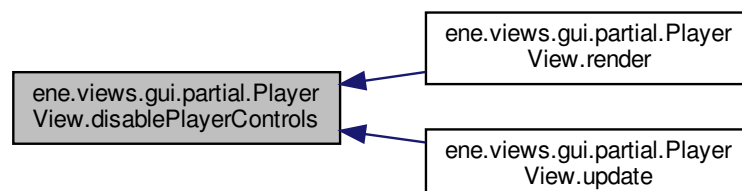
```
void ene.views.gui.partial.PlayerView.disablePlayerControls ( ) [protected]
```

Disables player controls.

Definition at line 98 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.update()`.

Here is the caller graph for this function:



7.21.3.2 enablePlayerControls()

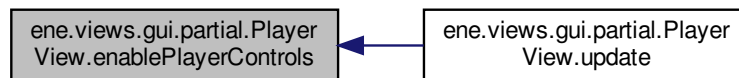
```
void ene.views.gui.partial.PlayerView.enablePlayerControls ( ) [protected]
```

Enables player controls.

Definition at line 89 of file PlayerView.java.

Referenced by ene.views.gui.partial.PlayerView.update().

Here is the caller graph for this function:



7.21.3.3 formatTimeToString()

```
String ene.views.gui.partial.PlayerView.formatTimeToString (
    int timeInSeconds ) [protected]
```

Returns a string representation of the time.

Parameters

<i>timeInSeconds</i>	Time in seconds.
----------------------	------------------

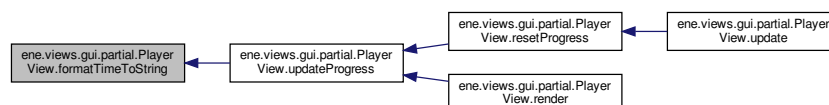
Returns

String representation of the time.

Definition at line 132 of file PlayerView.java.

Referenced by ene.views.gui.partial.PlayerView.updateProgress().

Here is the caller graph for this function:



7.21.3.4 getPlayerController()

```
PlayerController ene.views.gui.partial.PlayerView.getPlayerController ( ) [protected]
```

Returns the player controller instance.

Returns

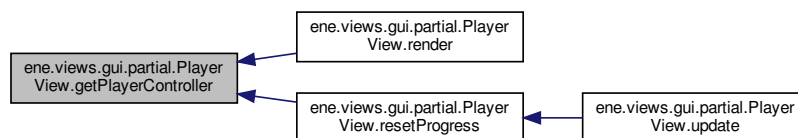
Player controller instance.

Definition at line 69 of file PlayerView.java.

References `ene.views.gui.partial.PlayerView.playerController`.

Referenced by `ene.views.gui.partial.PlayerView.render()`, and `ene.views.gui.partial.PlayerView.resetProgress()`.

Here is the caller graph for this function:



7.21.3.5 render()

```
void ene.views.gui.partial.PlayerView.render ( )
```

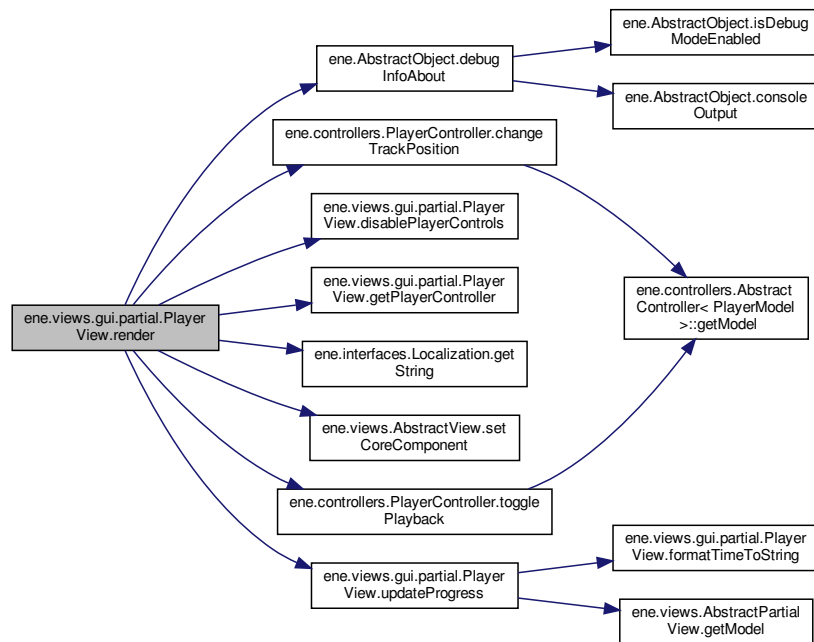
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 162 of file PlayerView.java.

References `ene.controllers.PlayerController.changeTrackPosition()`, `ene.AbstractObject.debugInfoAbout()`, `ene.views.gui.partial.PlayerView.disablePlayerControls()`, `ene.views.gui.partial.PlayerView.getPlayerController()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`, `ene.controllers.PlayerController.togglePlayback()`, and `ene.views.gui.partial.PlayerView.updateProgress()`.

Here is the call graph for this function:



7.21.3.6 resetProgress()

```
void ene.views.gui.partial.PlayerView.resetProgress ( ) [protected]
```

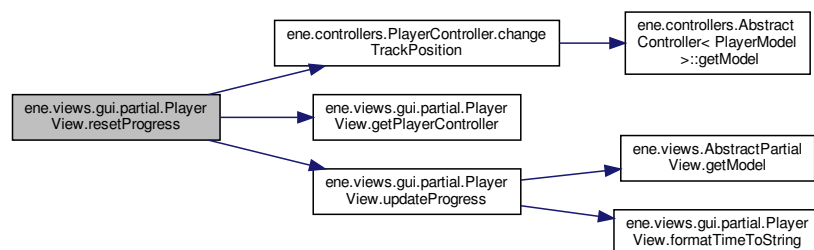
Resets the track progress.

Definition at line 122 of file PlayerView.java.

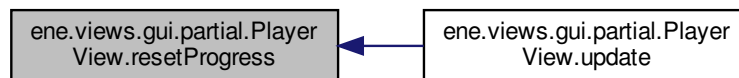
References `ene.controllers.PlayerController.changeTrackPosition()`, `ene.views.gui.partial.PlayerView.getPlayerController()`, and `ene.views.gui.partial.PlayerView.updateProgress()`.

Referenced by `ene.views.gui.partial.PlayerView.update()`.

Here is the call graph for this function:



Here is the caller graph for this function:



7.21.3.7 `setPlayerController()`

```
void ene.views.gui.partial.PlayerView.setPlayerController (
    Controller playerController ) [protected]
```

Sets the player controller instance.

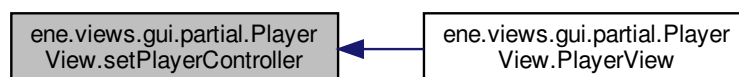
Parameters

<code>playerController</code>	Player controller instance.
-------------------------------	-----------------------------

Definition at line 61 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.PlayerView()`.

Here is the caller graph for this function:



7.21.3.8 `update()`

```
void ene.views.gui.partial.PlayerView.update ( )
```

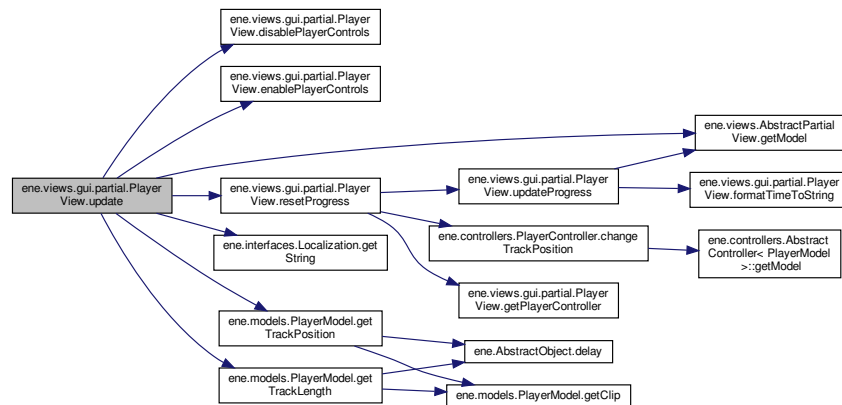
Request update.

Implements [ene.interfaces.PartialView](#)< [CoreComponentType](#), [ModelType](#) >.

Definition at line 137 of file `PlayerView.java`.

References ene.views.gui.partial.PlayerView.disablePlayerControls(), ene.views.gui.partial.PlayerView.enablePlayerControls(), ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel(), ene.interfaces.Localization.getString(), ene.models.PlayerModel.getTrackLength(), ene.models.PlayerModel.getTrackPosition(), and ene.views.gui.partial.PlayerView.resetProgress().

Here is the call graph for this function:



7.21.3.9 updateProgress()

```
void ene.views.gui.partial.PlayerView.updateProgress ( ) [protected]
```

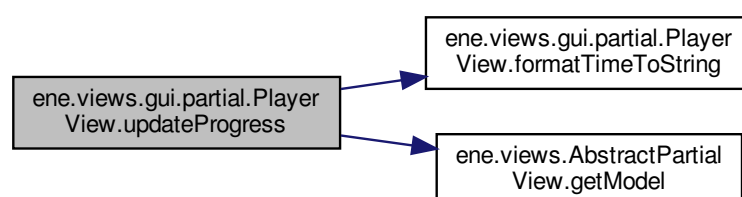
Updates the progress slider and label.

Definition at line 107 of file PlayerView.java.

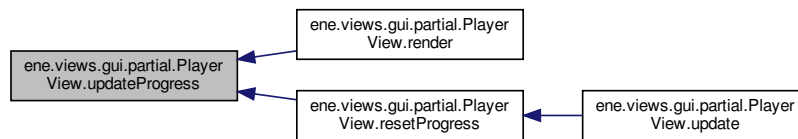
References ene.views.gui.partial.PlayerView.formatTimeToString(), and ene.views.AbstractPartialView< CoreComponentType, ModelType >.getModel().

Referenced by ene.views.gui.partial.PlayerView.render(), and ene.views.gui.partial.PlayerView.resetProgress().

Here is the call graph for this function:



Here is the caller graph for this function:



7.21.4 Member Data Documentation

7.21.4.1 playButton

`JButton ene.views.gui.partial.PlayerView.playButton [protected]`

Play/Stop button.

Definition at line 35 of file `PlayerView.java`.

7.21.4.2 playerController

`PlayerController ene.views.gui.partial.PlayerView.playerController [protected]`

Player controller instance.

Definition at line 30 of file `PlayerView.java`.

Referenced by `ene.views.gui.partial.PlayerView.getPlayerController()`.

7.21.4.3 progressLabel

`JLabel ene.views.gui.partial.PlayerView.progressLabel [protected]`

Progress label.

Definition at line 45 of file `PlayerView.java`.

7.21.4.4 progressSlider

`JSlider ene.views.gui.partial.PlayerView.progressSlider [protected]`

Progress slider.

Definition at line 40 of file `PlayerView.java`.

7.21.4.5 progressTimer

Timer ene.views.gui.partial.PlayerView.progressTimer [package]

Progress refresh timer.

Definition at line 50 of file PlayerView.java.

7.21.4.6 trackTimeFormat

SimpleDateFormat ene.views.gui.partial.PlayerView.trackTimeFormat [package]

Track time format instance.

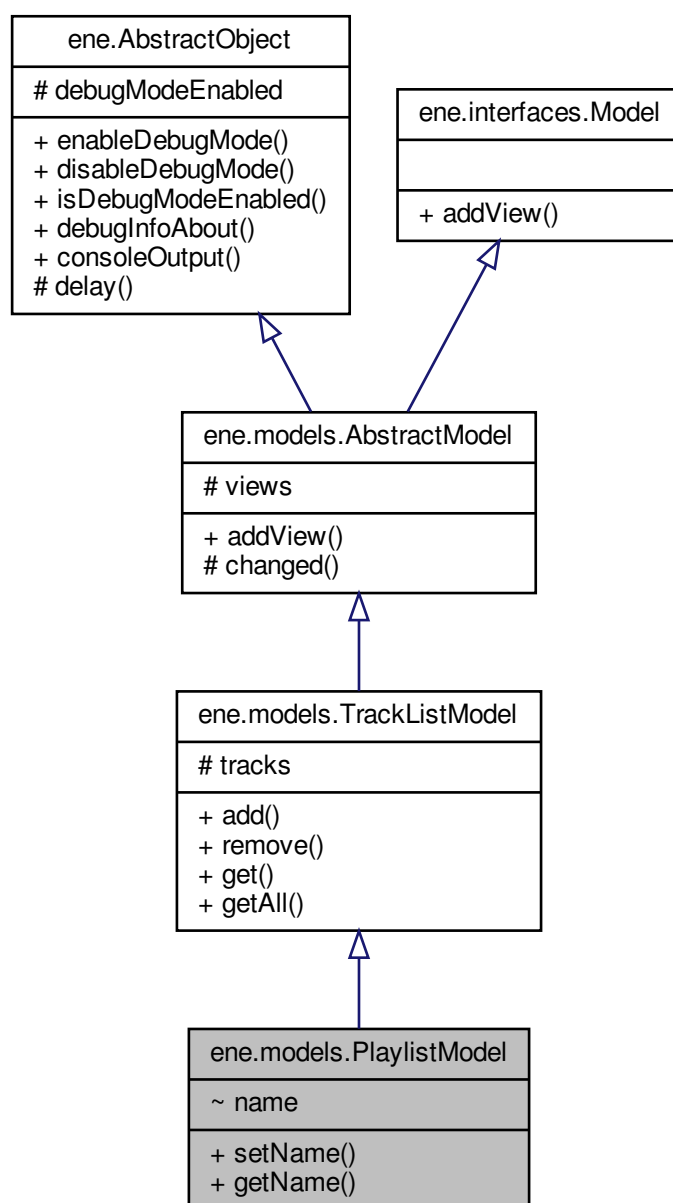
Definition at line 55 of file PlayerView.java.

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

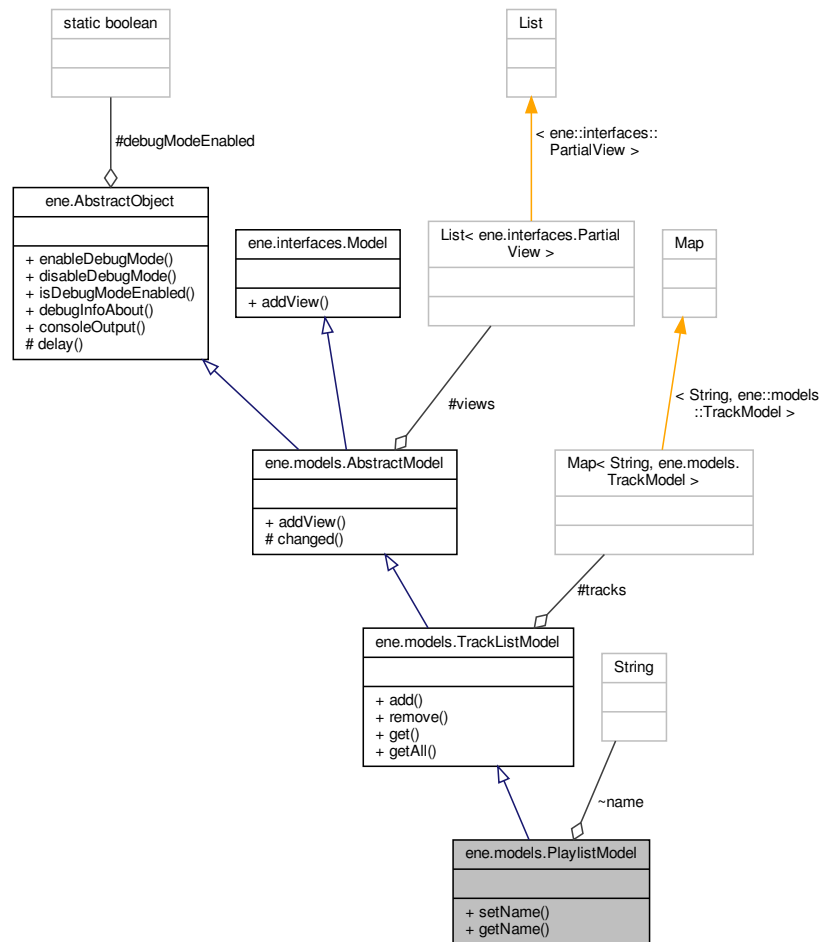
- [src/ene/views/gui/partial/PlayerView.java](#)

7.22 ene.models.PlaylistModel Class Reference

Inheritance diagram for ene.models.PlaylistModel:



Collaboration diagram for ene.models.PlaylistModel:



Public Member Functions

- void `setName` (String `name`)
- String `getName` ()

Package Attributes

- String `name`

Additional Inherited Members

7.22.1 Detailed Description

Playlist model.

Since

0.14.0

Version

1.0.0

Definition at line 10 of file PlaylistModel.java.

7.22.2 Member Function Documentation**7.22.2.1 getName()**

```
String ene.models.PlaylistModel.getName ( )
```

Returns the playlist name.

Returns

Playlist name.

Definition at line 28 of file PlaylistModel.java.

References ene.models.PlaylistModel.name.

7.22.2.2 setName()

```
void ene.models.PlaylistModel.setName (
    String name )
```

Sets the playlist name.

Parameters

<i>name</i>	Playlist name.
-------------	----------------

Definition at line 20 of file PlaylistModel.java.

References ene.models.PlaylistModel.name.

7.22.3 Member Data Documentation

7.22.3.1 name

```
String ene.models.PlaylistModel.name [package]
```

Playlist name.

Definition at line 14 of file PlaylistModel.java.

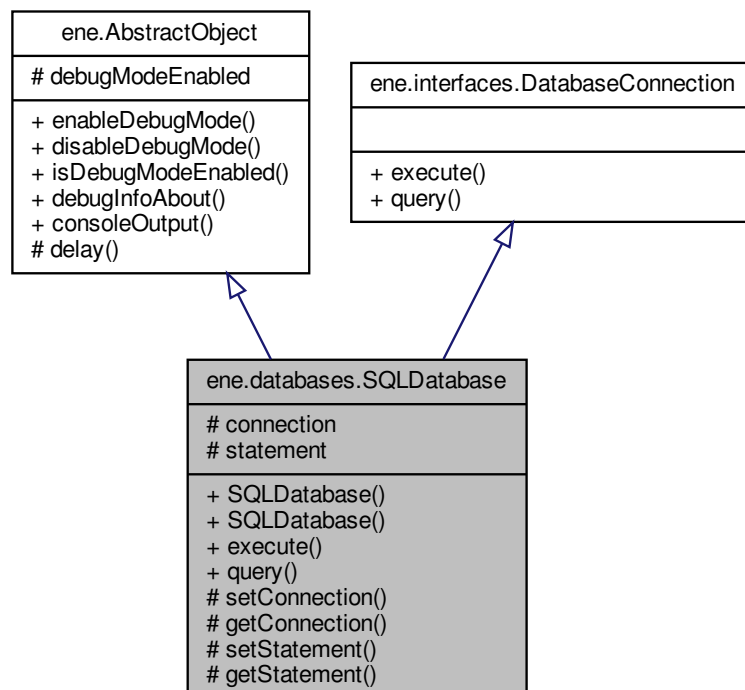
Referenced by ene.models.PlaylistModel.getName(), and ene.models.PlaylistModel.setName().

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

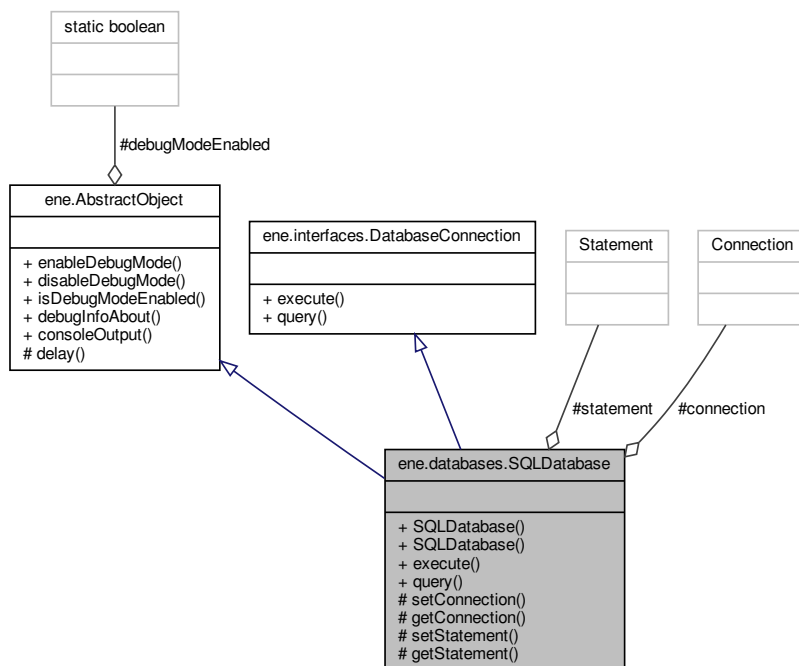
- src/ene/models/[PlaylistModel.java](#)

7.23 ene.databases.SQLDatabase Class Reference

Inheritance diagram for ene.databases.SQLDatabase:



Collaboration diagram for ene.databases.SQLDatabase:



Public Member Functions

- [SQLDatabase](#) (String url, int statementTimeout) throws Exception
- [SQLDatabase](#) (String url, int statementTimeout, Properties properties) throws Exception
- int [execute](#) (String [statement](#)) throws Exception
- List< Map< String, String > > [query](#) (String [statement](#)) throws Exception

Protected Member Functions

- void [setConnection](#) (Connection [connection](#))
- Connection [getConnection](#) ()
- void [setStatement](#) (Statement [statement](#))
- Statement [getStatement](#) ()

Protected Attributes

- Connection [connection](#) = null
- Statement [statement](#) = null

Additional Inherited Members

7.23.1 Detailed Description

JDBC SQL database.

Version

1.1.0

Definition at line 20 of file SQLiteDatabase.java.

7.23.2 Constructor & Destructor Documentation

7.23.2.1 SQLDatabase() [1/2]

```
ene.databases.SQLDatabase.SQLDatabase (
    String url,
    int statementTimeout ) throws Exception
```

Constructor.

Parameters

<i>url</i>	A database url of the form jdbc:subprotocol:subname.
<i>statementTimeout</i>	Statement timeout in seconds.

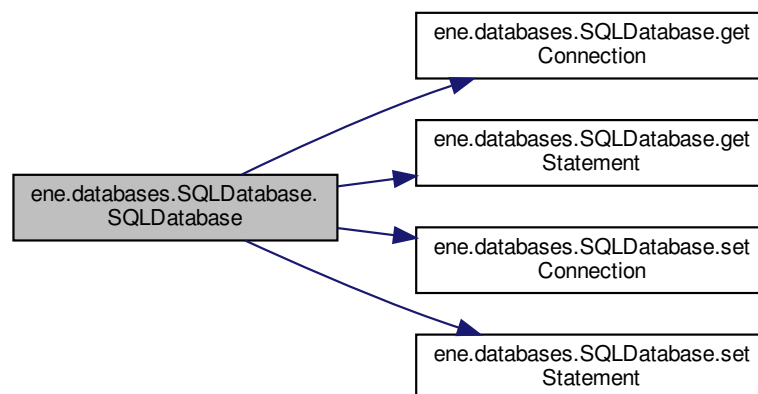
Version

1.0.0

Definition at line 69 of file SQLDatabase.java.

References `ene.databases.SQLDatabase.getConnection()`, `ene.databases.SQLDatabase.getStatement()`, `ene.databases.SQLDatabase.setConnection()`, and `ene.databases.SQLDatabase.setStatement()`.

Here is the call graph for this function:



7.23.2.2 SQLDatabase() [2/2]

```
ene.databases.SQLDatabase.SQLDatabase (
    String url,
    int statementTimeout,
    Properties properties ) throws Exception
```

Constructor.

Parameters

<i>url</i>	A database url of the form jdbc:subprotocol:subname.
<i>statementTimeout</i>	Statement timeout in seconds.
<i>properties</i>	Properties instance.

Since

0.16.0

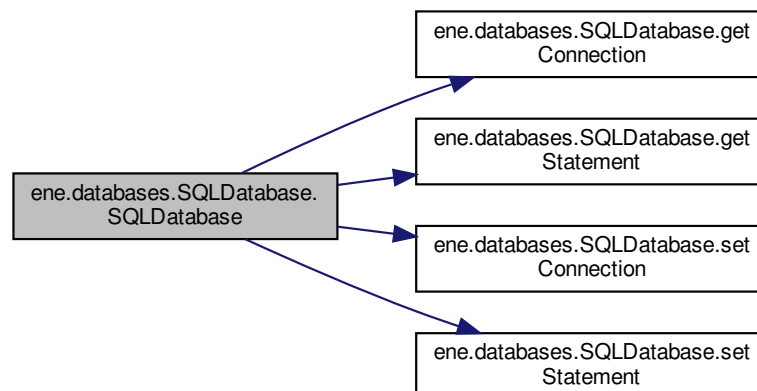
Version

1.0.0

Definition at line 83 of file SQLiteDatabase.java.

References `ene.databases.SQLDatabase.getConnection()`, `ene.databases.SQLDatabase.getStatement()`, `ene.databases.SQLDatabase.setConnection()`, and `ene.databases.SQLDatabase.setStatement()`.

Here is the call graph for this function:

**7.23.3 Member Function Documentation****7.23.3.1 execute()**

```
int ene.databases.SQLDatabase.execute (
    String statement ) throws Exception
```

Executes statement.

Parameters

<i>statement</i>	Statement.
------------------	------------

Returns

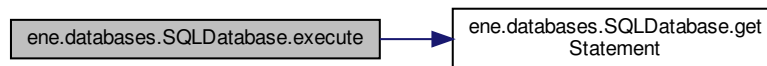
Number of affected rows.

Implements [ene.interfaces.DatabaseConnection](#).

Definition at line 90 of file SQLDatabase.java.

References `ene.databases.SQLDatabase.createStatement()`.

Here is the call graph for this function:

**7.23.3.2 getConnection()**

```
Connection ene.databases.SQLDatabase.getConnection ( ) [protected]
```

Returns the connection instance.

Returns

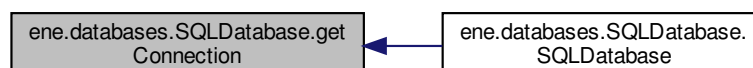
Connection instance.

Definition at line 43 of file SQLDatabase.java.

References `ene.databases.SQLDatabase.connection`.

Referenced by `ene.databases.SQLDatabase.SQLDatabase()`.

Here is the caller graph for this function:



7.23.3.3 `getStatement()`

```
Statement ene.databases.SQLDatabase.getStatement ( ) [protected]
```

Returns the statement instance.

Returns

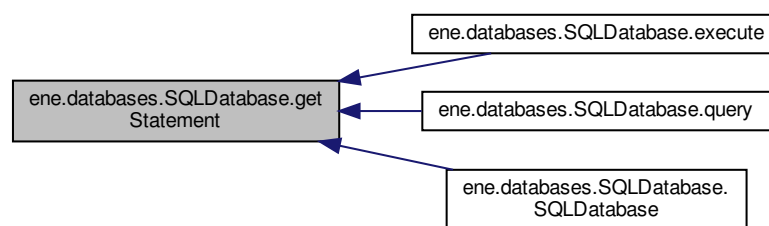
Statement instance.

Definition at line 59 of file `SQLDatabase.java`.

References `ene.databases.SQLDatabase.statement`.

Referenced by `ene.databases.SQLDatabase.execute()`, `ene.databases.SQLDatabase.query()`, and `ene.databases.SQLDatabase.SQLDatabase()`.

Here is the caller graph for this function:



7.23.3.4 `query()`

```
List<Map<String,String> > ene.databases.SQLDatabase.query (
    String statement ) throws Exception
```

Query statement.

Parameters

<i>statement</i>	Statement.
------------------	------------

Returns

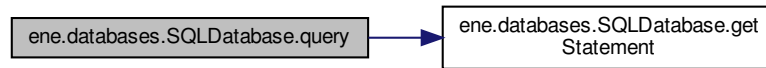
Returns a list of maps of rows.

Implements [ene.interfaces.DatabaseConnection](#).

Definition at line 95 of file `SQLDatabase.java`.

References ene.databases.SQLDatabase.createStatement().

Here is the call graph for this function:



7.23.3.5 setConnection()

```
void ene.databases.SQLDatabase.setConnection (
    Connection connection ) [protected]
```

Sets the connection instance.

Parameters

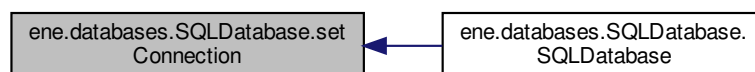
<i>connection</i>	Connection instance.
-------------------	----------------------

Definition at line 35 of file SQLDatabase.java.

References ene.databases.SQLDatabase.connection.

Referenced by ene.databases.SQLDatabase.SQLDatabase().

Here is the caller graph for this function:



7.23.3.6 setStatement()

```
void ene.databases.SQLDatabase.setStatement (
    Statement statement ) [protected]
```

Sets the statement instance.

Parameters

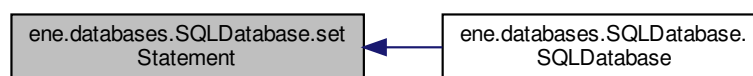
<i>statement</i>	Statement instance.
------------------	---------------------

Definition at line 51 of file SQLiteDatabase.java.

References ene.databases.SQLiteDatabase.statement.

Referenced by ene.databases.SQLiteDatabase.SQLiteDatabase().

Here is the caller graph for this function:

**7.23.4 Member Data Documentation****7.23.4.1 connection**

```
Connection ene.databases.SQLiteDatabase.connection = null [protected]
```

Connection instance.

Definition at line 24 of file SQLiteDatabase.java.

Referenced by ene.databases.SQLiteDatabase.getConnection(), and ene.databases.SQLiteDatabase.setConnection().

7.23.4.2 statement

```
Statement ene.databases.SQLiteDatabase.statement = null [protected]
```

Statement instance.

Definition at line 29 of file SQLiteDatabase.java.

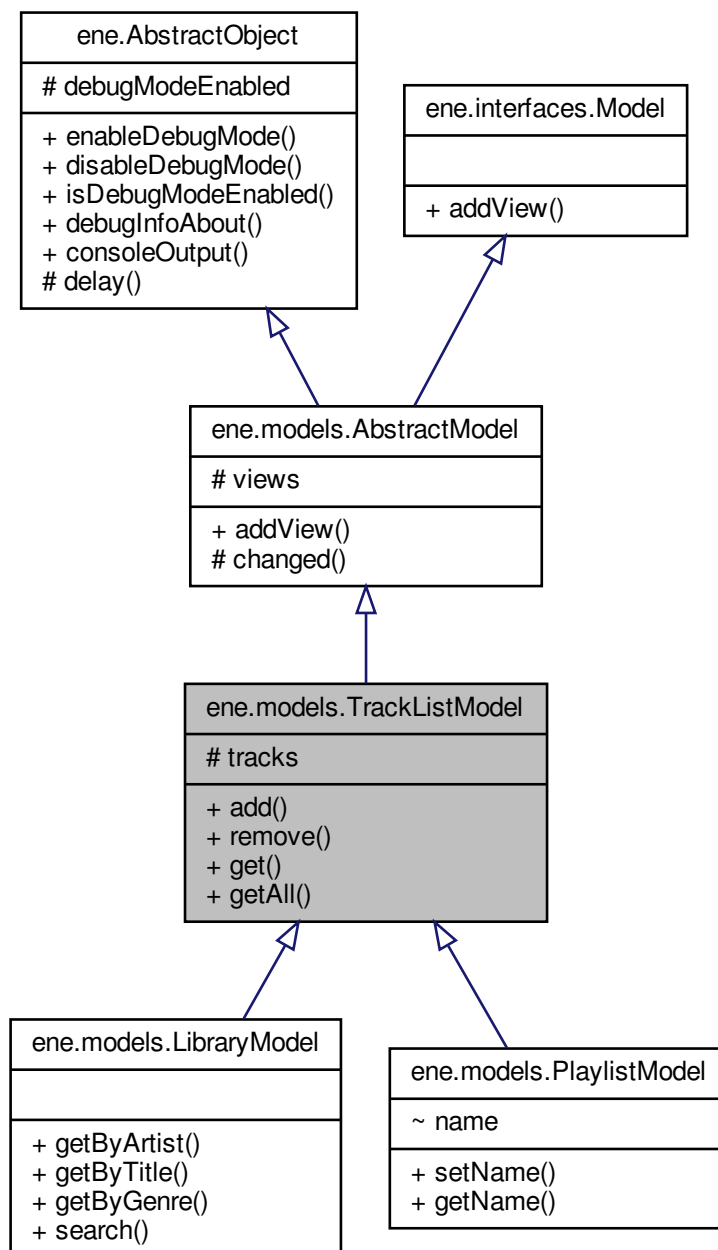
Referenced by ene.databases.SQLiteDatabase.getStatement(), and ene.databases.SQLiteDatabase.setStatement().

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

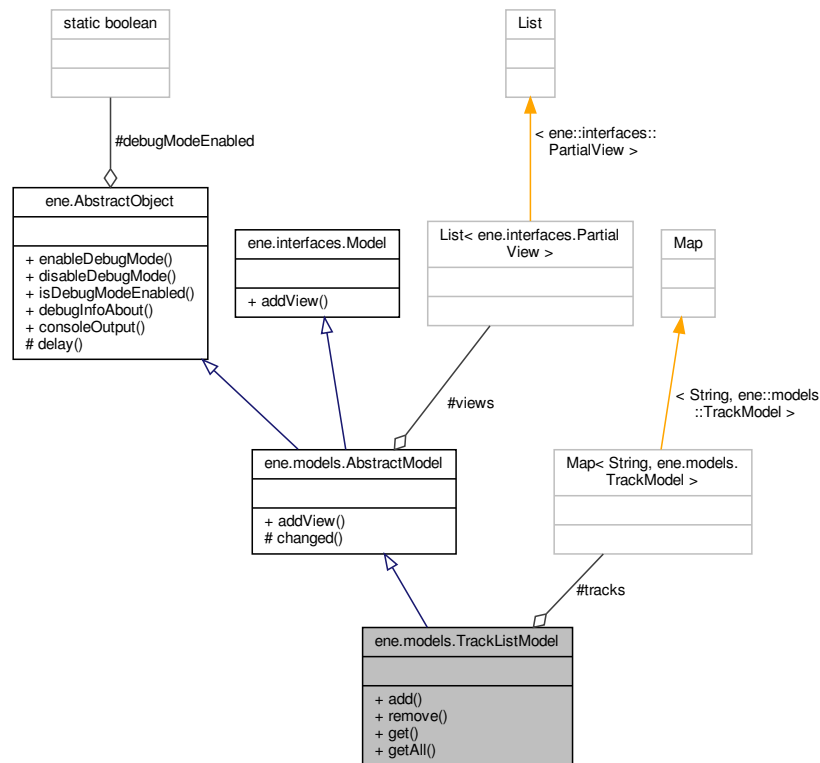
- src/ene/databases/[SQLiteDatabase.java](#)

7.24 ene.models.TrackListModel Class Reference

Inheritance diagram for ene.models.TrackListModel:



Collaboration diagram for ene.models.TrackListModel:



Public Member Functions

- void [add](#) ([TrackModel](#) track)
- boolean [remove](#) (String filename)
- [TrackModel](#) [get](#) (String filename)
- Map< String, [TrackModel](#) > [getAll](#) ()

Protected Attributes

- Map< String, [TrackModel](#) > [tracks](#) = new HashMap<>()

Additional Inherited Members

7.24.1 Detailed Description

Track list model.

Since

0.11.0

Version

1.0.0

Definition at line 12 of file TrackListModel.java.

7.24.2 Member Function Documentation

7.24.2.1 add()

```
void ene.models.TrackListModel.add (  
    TrackModel track )
```

Adds a track.

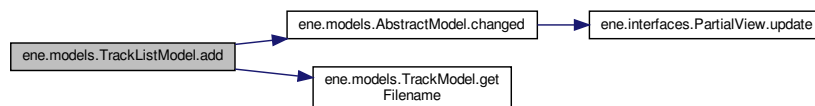
Parameters

<i>track</i>	Track model instance.
--------------	-----------------------

Definition at line 22 of file TrackListModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.getFilename().

Here is the call graph for this function:



7.24.2.2 get()

```
TrackModel ene.models.TrackListModel.get (  
    String filename )
```

Returns track.

Parameters

<i>filename</i>	File path.
-----------------	------------

Returns

Track.

Definition at line 46 of file TrackListModel.java.

7.24.2.3 getAll()

```
Map<String, TrackModel> ene.models.TrackListModel.getAll ( )
```

Returns all tracks.

Returns

Tracks.

Definition at line 54 of file TrackListModel.java.

References ene.models.TrackListModel.tracks.

7.24.2.4 remove()

```
boolean ene.models.TrackListModel.remove (
    String filename )
```

Removes a track.

Parameters

<i>filename</i>	File path.
-----------------	------------

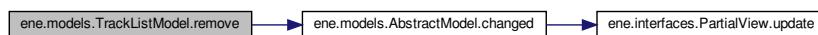
Returns

Returns TRUE, if successful. Otherwise FALSE.

Definition at line 32 of file TrackListModel.java.

References ene.models.AbstractModel.changed().

Here is the call graph for this function:



7.24.3 Member Data Documentation

7.24.3.1 tracks

```
Map<String, TrackModel> ene.models.TrackListModel.tracks = new HashMap<>() [protected]
```

All tracks.

Definition at line 16 of file TrackListModel.java.

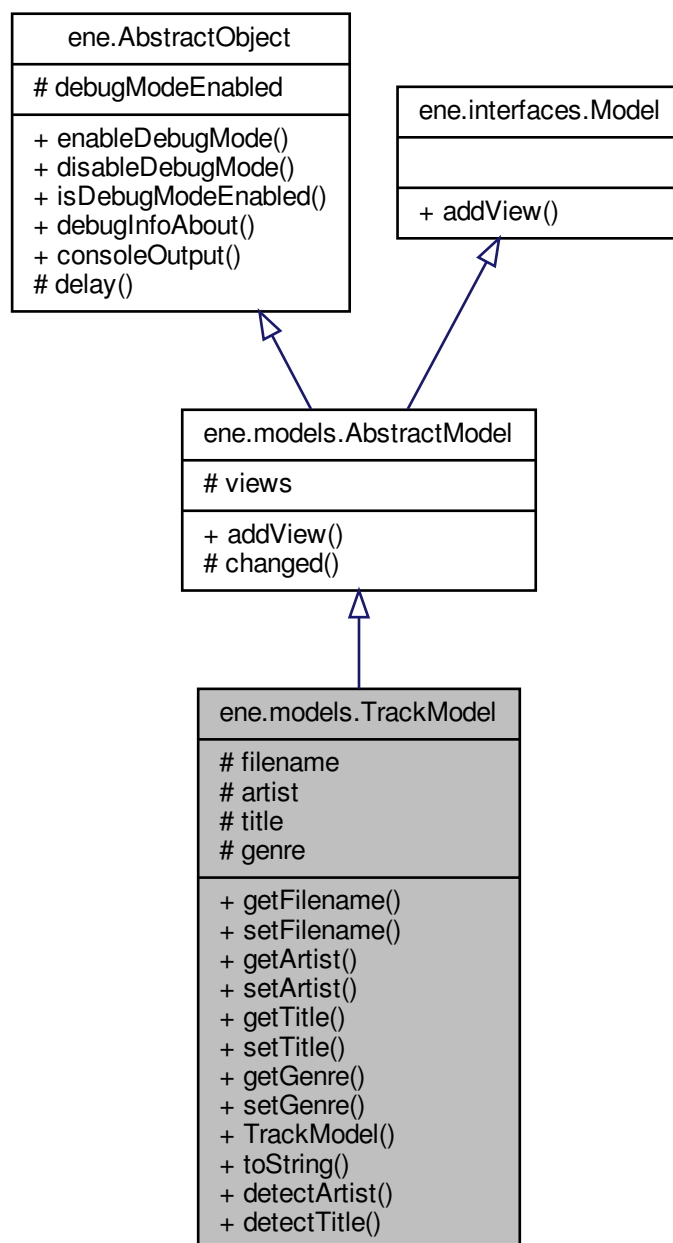
Referenced by `ene.models.TrackListModel.getAll()`, `ene.models.LibraryModel.getByArtist()`, `ene.models.LibraryModel.getByGenre()`, `ene.models.LibraryModel.getByTitle()`, and `ene.models.LibraryModel.search()`.

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

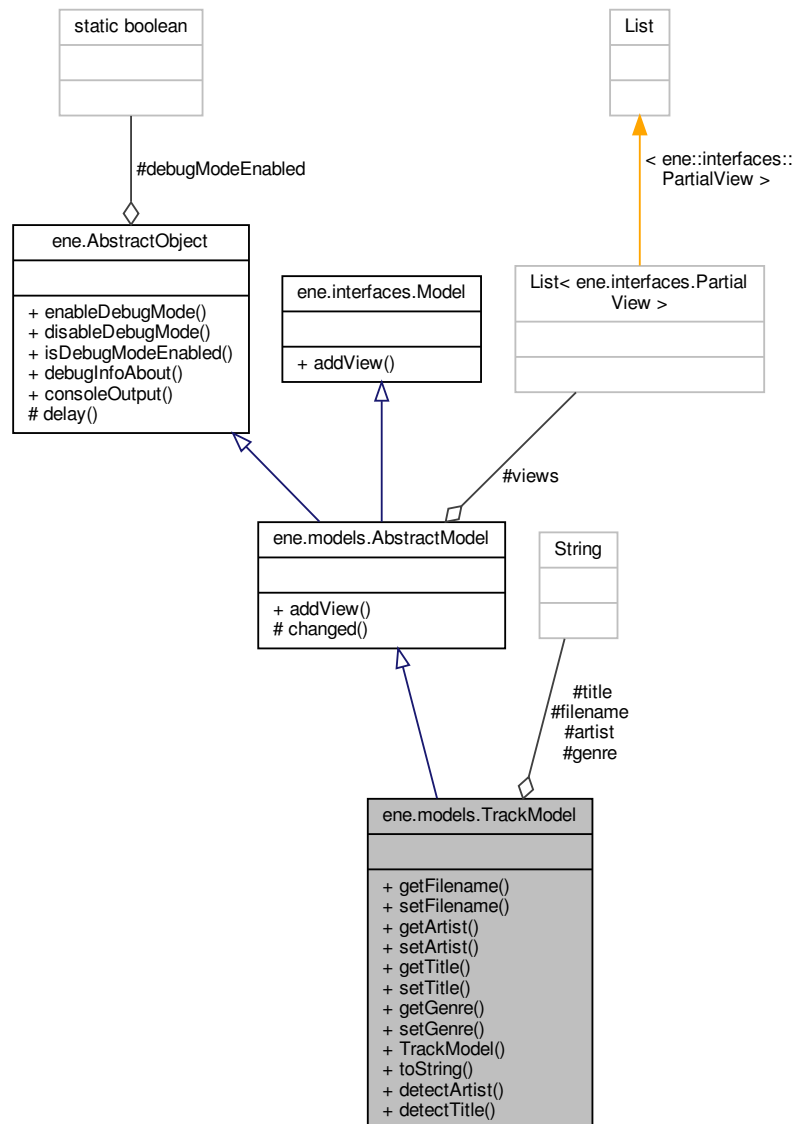
- `src/ene/models/TrackListModel.java`

7.25 ene.models.TrackModel Class Reference

Inheritance diagram for ene.models.TrackModel:



Collaboration diagram for ene.models.TrackModel:



Public Member Functions

- String `getFilename` ()
- void `setFilename` (String `filename`)
- String `getArtist` ()
- void `setArtist` (String `artist`)
- String `getTitle` ()
- void `setTitle` (String `title`)
- String `getGenre` ()
- void `setGenre` (String `genre`)
- `TrackModel` (String `filename`, String `artist`, String `title`, String `genre`)
- String `toString` ()

Static Public Member Functions

- static String [detectArtist](#) (String [filename](#))
- static String [detectTitle](#) (String [filename](#))

Protected Attributes

- String [filename](#)
- String [artist](#)
- String [title](#)
- String [genre](#)

Additional Inherited Members

7.25.1 Detailed Description

Track model.

Version

2.0.1

Definition at line 9 of file TrackModel.java.

7.25.2 Constructor & Destructor Documentation

7.25.2.1 TrackModel()

```
ene.models.TrackModel.TrackModel (
    String filename,
    String artist,
    String title,
    String genre )
```

Constructor.

Parameters

<i>filename</i>	Filename.
<i>artist</i>	Artist.
<i>title</i>	Title.
<i>genre</i>	Genre.

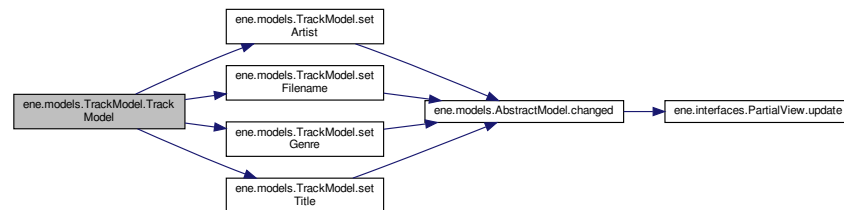
Since

0.10.0

Definition at line 106 of file TrackModel.java.

References ene.models.TrackModel.setArtist(), ene.models.TrackModel.setFilename(), ene.models.TrackModel.setGenre(), and ene.models.TrackModel.setTitle().

Here is the call graph for this function:



7.25.3 Member Function Documentation

7.25.3.1 detectArtist()

```
static String ene.models.TrackModel.detectArtist (
    String filename ) [static]
```

Detects the artist by the filename.

Parameters

<i>filename</i>	The filename.
-----------------	---------------

Returns

Returns the artist or a empty string.

Since

0.10.1

Definition at line 132 of file TrackModel.java.

Referenced by ene.controllers.LibraryController.addFile().

Here is the caller graph for this function:



7.25.3.2 detectTitle()

```
static String ene.models.TrackModel.detectTitle (
    String filename ) [static]
```

Detects the title by the filename.

Parameters

<i>filename</i>	The filename.
-----------------	---------------

Returns

Returns the title or a empty string.

Since

0.10.1

Definition at line 147 of file TrackModel.java.

Referenced by ene.controllers.LibraryController.addFile().

Here is the caller graph for this function:



7.25.3.3 getArtist()

```
String ene.models.TrackModel.getArtist ( )
```

Get the artist.

Returns

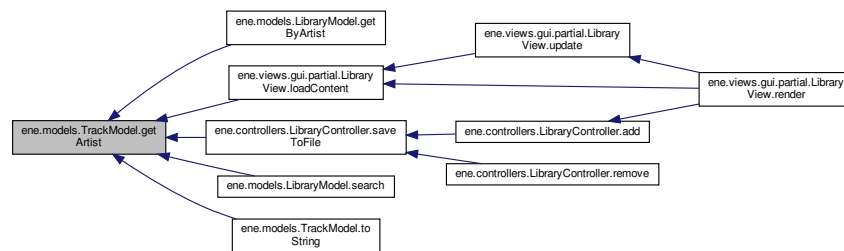
Artist.

Definition at line 51 of file TrackModel.java.

References ene.models.TrackModel.artist.

Referenced by ene.models.LibraryModel.getByArtist(), ene.views.gui.partial.LibraryView.loadContent(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



7.25.3.4 getFilename()

```
String ene.models.TrackModel.getFilename ( )
```

Get the filename.

Returns

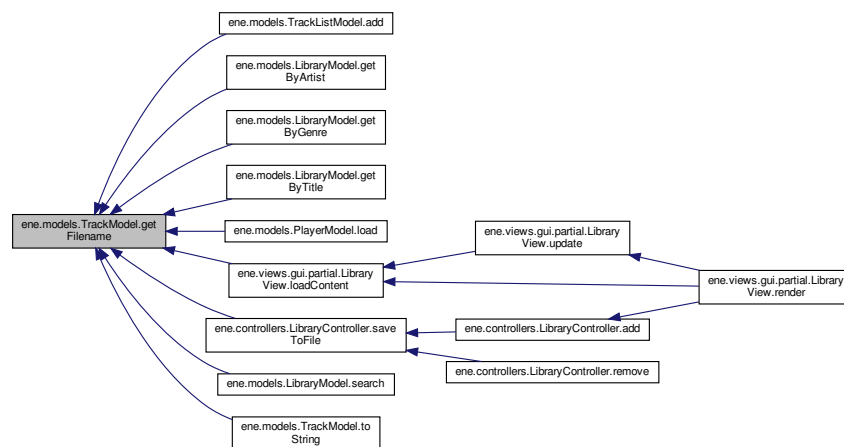
Filename.

Definition at line 34 of file TrackModel.java.

References ene.models.TrackModel.filename.

Referenced by ene.models.TrackListModel.add(), ene.models.LibraryModel.getByArtist(), ene.models.LibraryModel.getByGenre(), ene.models.LibraryModel.getByTitle(), ene.models.PlayerModel.load(), ene.views.gui.partial.LibraryView.loadContent(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



7.25.3.5 getGenre()

```
String ene.models.TrackModel.getGenre ( )
```

Get the genre.

Returns

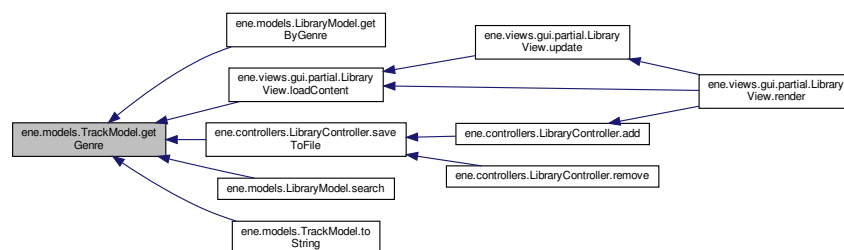
Genre.

Definition at line 85 of file TrackModel.java.

References ene.models.TrackModel.genre.

Referenced by ene.models.LibraryModel.getByGenre(), ene.views.gui.partial.LibraryView.loadContent(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



7.25.3.6 getTitle()

```
String ene.models.TrackModel.getTitle ( )
```

Get the title.

Returns

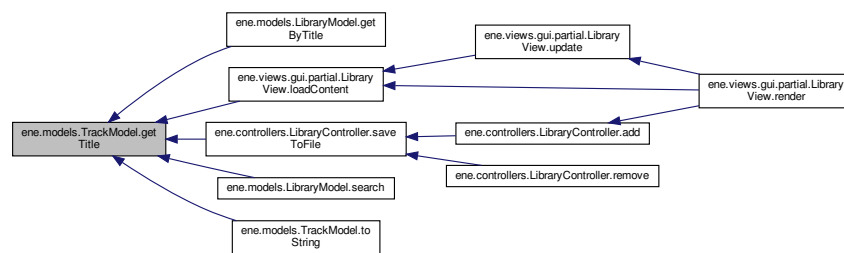
Title.

Definition at line 68 of file TrackModel.java.

References ene.models.TrackModel.title.

Referenced by ene.models.LibraryModel.getByTitle(), ene.views.gui.partial.LibraryView.loadContent(), ene.controllers.LibraryController.saveToFile(), ene.models.LibraryModel.search(), and ene.models.TrackModel.toString().

Here is the caller graph for this function:



7.25.3.7 setArtist()

```
void ene.models.TrackModel.setArtist (
    String artist )
```

Set the artist.

Parameters

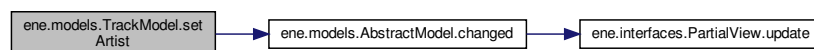
<i>artist</i>	Artist.
---------------	---------

Definition at line 59 of file TrackModel.java.

References ene.models.TrackModel.artist, and ene.models.AbstractModel.changed().

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



7.25.3.8 setFilename()

```
void ene.models.TrackModel.setFilename (
    String filename )
```

Set the filename.

Parameters

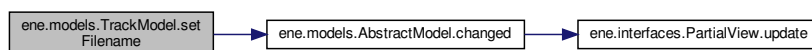
<i>filename</i>	Filename.
-----------------	-----------

Definition at line 42 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.filename.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



7.25.3.9 setGenre()

```
void ene.models.TrackModel.setGenre (
    String genre )
```

Set the genre

Parameters

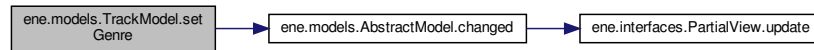
<i>genre</i>	Genre.
--------------	--------

Definition at line 93 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.genre.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



7.25.3.10 setTitle()

```
void ene.models.TrackModel.setTitle (
    String title )
```

Set the title.

Parameters

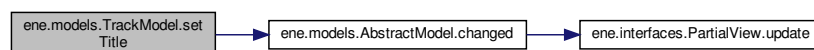
<i>title</i>	Title.
--------------	--------

Definition at line 76 of file TrackModel.java.

References ene.models.AbstractModel.changed(), and ene.models.TrackModel.title.

Referenced by ene.models.TrackModel.TrackModel().

Here is the call graph for this function:



Here is the caller graph for this function:



7.25.3.11 toString()

```
String ene.models.TrackModel.toString ( )
```

Returns a string representation of the object.

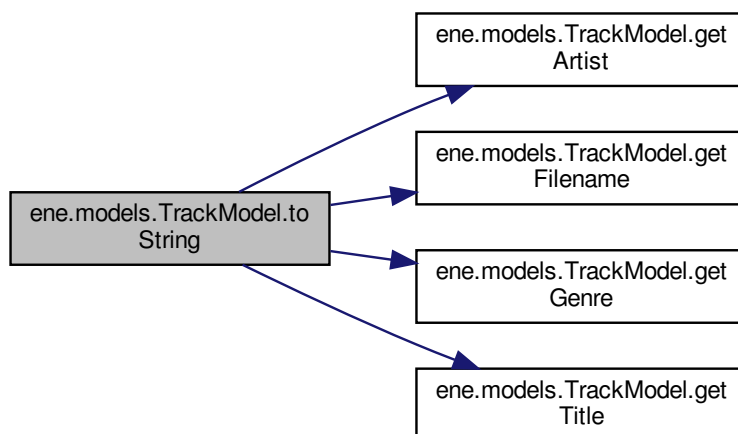
Returns

String representation of the object.

Definition at line 117 of file `TrackModel.java`.

References `ene.models.TrackModel.getArtist()`, `ene.models.TrackModel.getFilename()`, `ene.models.TrackModel.getGenre()`, and `ene.models.TrackModel.getTitle()`.

Here is the call graph for this function:



7.25.4 Member Data Documentation

7.25.4.1 artist

```
String ene.models.TrackModel.artist [protected]
```

Artist.

Definition at line 18 of file TrackModel.java.

Referenced by ene.models.TrackModel.getArtist(), and ene.models.TrackModel.setArtist().

7.25.4.2 filename

```
String ene.models.TrackModel.filename [protected]
```

Filename.

Definition at line 13 of file TrackModel.java.

Referenced by ene.models.TrackModel.getFilename(), and ene.models.TrackModel.setFilename().

7.25.4.3 genre

```
String ene.models.TrackModel.genre [protected]
```

Genre.

Definition at line 28 of file TrackModel.java.

Referenced by ene.models.TrackModel.getGenre(), and ene.models.TrackModel.setGenre().

7.25.4.4 title

```
String ene.models.TrackModel.title [protected]
```

Title.

Definition at line 23 of file TrackModel.java.

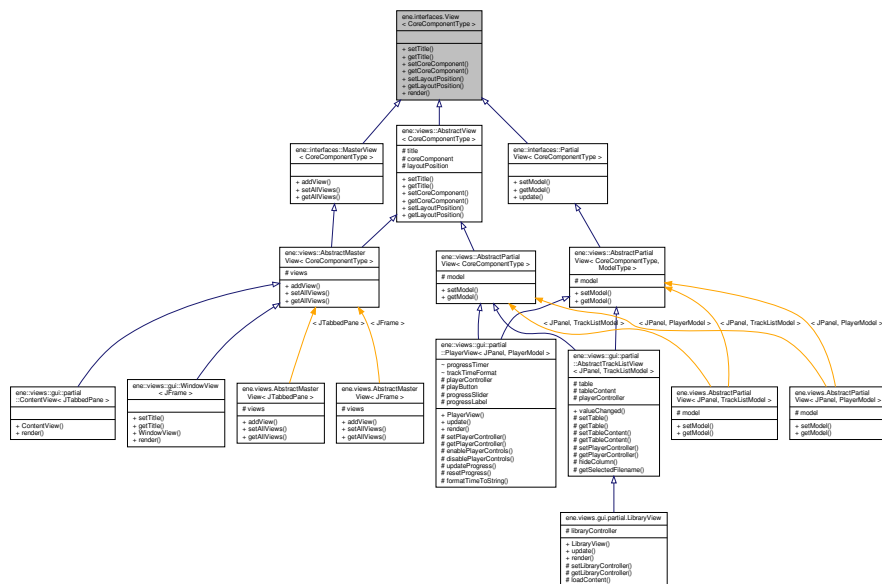
Referenced by ene.models.TrackModel.getTitle(), and ene.models.TrackModel.setTitle().

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

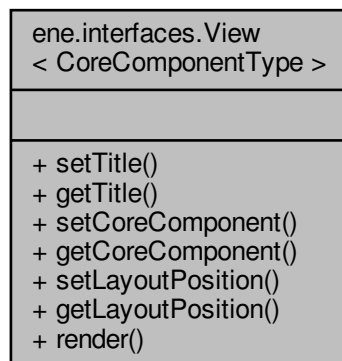
- src/ene/models/[TrackModel.java](#)

7.26 ene.interfaces.View< CoreComponentType > Interface Template Reference

Inheritance diagram for ene.interfaces.View< CoreComponentType >:



Collaboration diagram for ene.interfaces.View< CoreComponentType >:



Public Member Functions

- void [setTitle](#) (String title)
- String [getTitle](#) ()
- void [setCoreComponent](#) (CoreComponentType coreComponent)
- CoreComponentType [getCoreComponent](#) ()
- void [setLayoutPosition](#) (String layoutPosition)
- String [getLayoutPosition](#) ()
- void [render](#) ()

7.26.1 Detailed Description

[View](#).

Version

2.1.0

Definition at line 7 of file View.java.

7.26.2 Member Function Documentation

7.26.2.1 getCoreComponent()

CoreComponentType [ene.interfaces.View](#)< CoreComponentType >.getCoreComponent ()

Returns the core component instance.

Returns

Core component instance.

Implemented in [ene.views.AbstractView](#)< CoreComponentType >.

7.26.2.2 getLayoutPosition()

String [ene.interfaces.View](#)< CoreComponentType >.getLayoutPosition ()

Returns the layout position.

Returns

Layout position.

Implemented in [ene.views.AbstractView](#)< CoreComponentType >.

7.26.2.3 getTitle()

String [ene.interfaces.View](#)< CoreComponentType >.getTitle ()

Returns the title.

Returns

Title.

Since

0.13.0

Implemented in [ene.views.AbstractView](#)< CoreComponentType >, and [ene.views.gui.WindowView](#).

7.26.2.4 render()

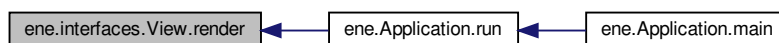
```
void ene.interfaces.View< CoreComponentType >.render ( )
```

Renders the view.

Implemented in [ene.views.gui.partial.PlayerView](#), [ene.views.gui.partial.LibraryView](#), [ene.views.gui.WindowView](#), and [ene.views.gui.partial.ContentView](#).

Referenced by `ene.Application.run()`.

Here is the caller graph for this function:



7.26.2.5 setCoreComponent()

```
void ene.interfaces.View< CoreComponentType >.setCoreComponent (
    CoreComponentType coreComponent )
```

Sets the core component instance.

Parameters

<i>coreComponent</i>	Core component instance.
----------------------	--------------------------

Implemented in [ene.views.AbstractView< CoreComponentType >](#).

7.26.2.6 setLayoutPosition()

```
void ene.interfaces.View< CoreComponentType >.setLayoutPosition (
    String layoutPosition )
```

Sets the layout position.

Parameters

<i>layoutPosition</i>	Layout position.
-----------------------	------------------

Implemented in [ene.views.AbstractView< CoreComponentType >](#).

7.26.2.7 setTitle()

```
void ene.interfaces.View< CoreComponentType >.setTitle (
    String title )
```

Sets the title.

Parameters

<i>title</i>	Title.
--------------	--------

Since

0.13.0

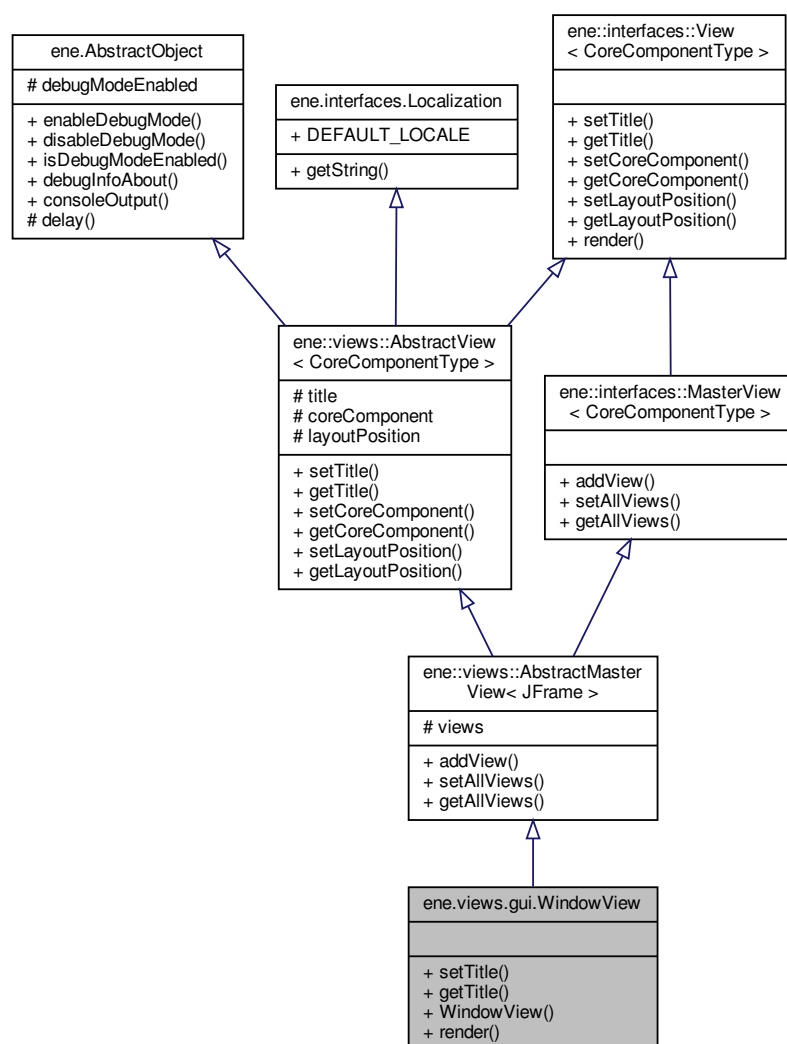
Implemented in [ene.views.AbstractView< CoreComponentType >](#), and [ene.views.gui.WindowView](#).

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

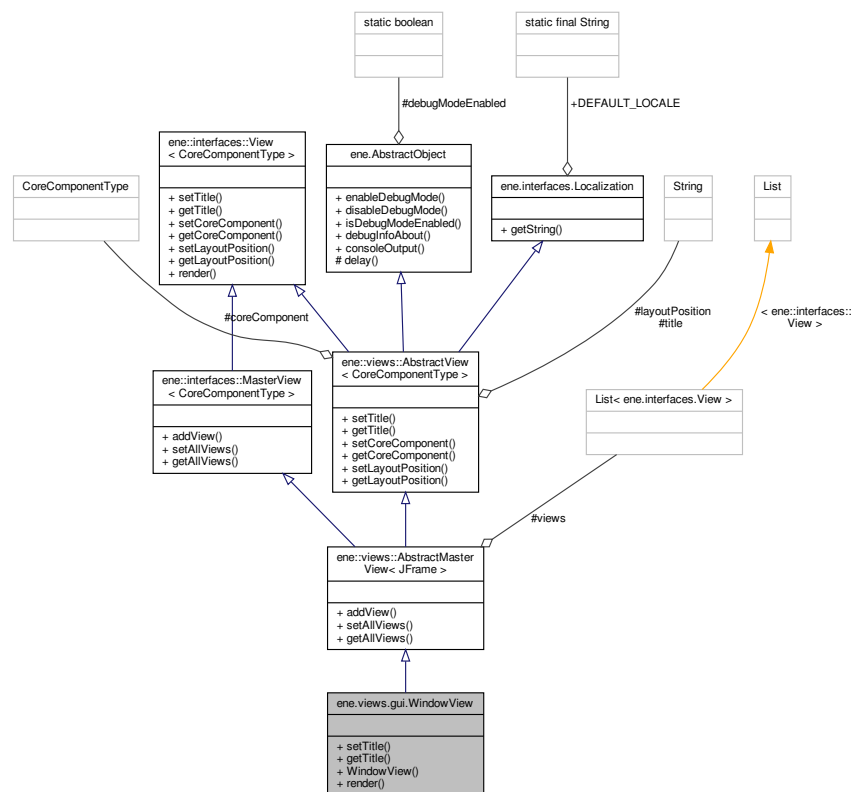
- [src/ene/interfaces/View.java](#)

7.27 ene.views.gui.WindowView Class Reference

Inheritance diagram for ene.views.gui.WindowView:



Collaboration diagram for ene.views.gui.WindowView:



Public Member Functions

- void setTitle (String title)
- String getTitle ()
- WindowView (View ... views)
- void render ()

Additional Inherited Members

7.27.1 Detailed Description

Window view.

Version

1.2.0

Definition at line 15 of file WindowView.java.

7.27.2 Constructor & Destructor Documentation

7.27.2.1 WindowView()

```
ene.views.gui.WindowView.WindowView (
    View ... views )
```

Constructor.

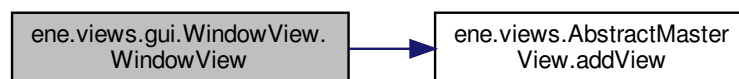
Parameters

<i>views</i>	View instances.
--------------	-----------------

Definition at line 30 of file WindowView.java.

References `ene.views.AbstractMasterView< CoreComponentType >.addView()`.

Here is the call graph for this function:



7.27.3 Member Function Documentation

7.27.3.1 getTitle()

```
String ene.views.gui.WindowView.getTitle ( )
```

Returns the title.

Returns

Title.

Since

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 22 of file WindowView.java.

References `ene.views.AbstractView< CoreComponentType >.getCoreComponent()`.

Here is the call graph for this function:



7.27.3.2 render()

```
void ene.views.gui.WindowView.render ( )
```

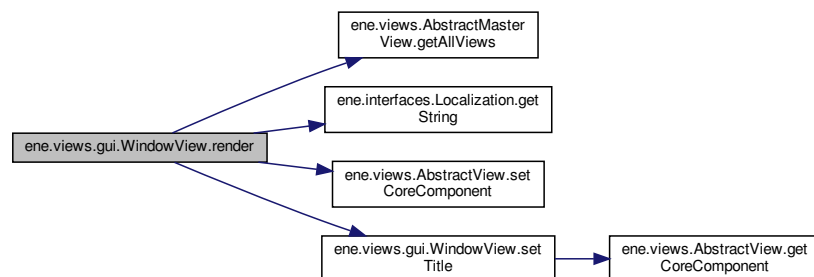
Renders the view.

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 37 of file `WindowView.java`.

References `ene.views.AbstractMasterView< CoreComponentType >.getAllViews()`, `ene.interfaces.Localization.getString()`, `ene.views.AbstractView< CoreComponentType >.setCoreComponent()`, and `ene.views.gui.WindowView.setTitle()`.

Here is the call graph for this function:



7.27.3.3 setTitle()

```
void ene.views.gui.WindowView.setTitle (
    String title )
```

Sets the title.

Parameters

<i>title</i>	Title.
--------------	--------

Since

0.13.0

Implements [ene.interfaces.View< CoreComponentType >](#).

Definition at line 17 of file `WindowView.java`.

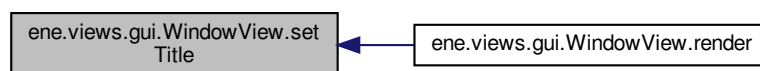
References `ene.views.AbstractView< CoreComponentType >.getCoreComponent()`.

Referenced by `ene.views.gui.WindowView.render()`.

Here is the call graph for this function:



Here is the caller graph for this function:



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

- `src/ene/views/gui/WindowView.java`

8 File Documentation

8.1 README.md File Reference

8.2 `src/ene/AbstractObject.java` File Reference

Classes

- class [ene.AbstractObject](#)

Packages

- package [ene](#)

8.3 src/ene/Application.java File Reference

Classes

- class [ene.Application](#)

Packages

- package [ene](#)

8.4 src/ene/controllers/AbstractController.java File Reference

Classes

- class [ene.controllers.AbstractController](#)< [ModelType](#) >

Packages

- package [ene.controllers](#)

8.5 src/ene/controllers/LibraryController.java File Reference

Classes

- class [ene.controllers.LibraryController](#)

Packages

- package [ene.controllers](#)

8.6 src/ene/controllers/package-info.java File Reference

Packages

- package [ene.controllers](#)

8.7 src/ene/databases/package-info.java File Reference

Packages

- package [ene.databases](#)

8.8 src/ene/interfaces/package-info.java File Reference

Packages

- package [ene.interfaces](#)

8.9 src/ene/models/package-info.java File Reference

Packages

- package [ene.models](#)

8.10 src/ene/package-info.java File Reference

Packages

- package [ene](#)

8.11 src/ene/views/gui/package-info.java File Reference

Packages

- package [ene.views.gui](#)

8.12 src/ene/views/gui/partial/package-info.java File Reference

Packages

- package [ene.views.gui.partial](#)

8.13 src/ene/views/package-info.java File Reference

Packages

- package [ene.views](#)

8.14 src/ene/controllers/PlayerController.java File Reference

Classes

- class [ene.controllers.PlayerController](#)

Packages

- package [ene.controllers](#)

8.15 src/ene/databases/SQLDatabase.java File Reference

Classes

- class [ene.databases.SQLDatabase](#)

Packages

- package [ene.databases](#)

8.16 src/ene/interfaces/Controller.java File Reference

Classes

- interface [ene.interfaces.Controller< ModelType >](#)

Packages

- package [ene.interfaces](#)

8.17 src/ene/interfaces/DatabaseConnection.java File Reference

Classes

- interface [ene.interfaces.DatabaseConnection](#)

Packages

- package [ene.interfaces](#)

8.18 src/ene/interfaces/Localization.java File Reference

Classes

- interface [ene.interfaces.Localization](#)

Packages

- package [ene.interfaces](#)

8.19 src/ene/interfaces/MasterView.java File Reference

Classes

- interface [ene.interfaces.MasterView< CoreComponentType >](#)

Packages

- package [ene.interfaces](#)

8.20 src/ene/interfaces/Model.java File Reference

Classes

- interface [ene.interfaces.Model](#)

Packages

- package [ene.interfaces](#)

8.21 src/ene/interfaces/PartialView.java File Reference

Classes

- interface [ene.interfaces.PartialView](#)< [CoreComponentType](#), [ModelType](#) >

Packages

- package [ene.interfaces](#)

8.22 src/ene/interfaces/View.java File Reference

Classes

- interface [ene.interfaces.View](#)< [CoreComponentType](#) >

Packages

- package [ene.interfaces](#)

8.23 src/ene/models/AbstractModel.java File Reference

Classes

- class [ene.models.AbstractModel](#)

Packages

- package [ene.models](#)

8.24 src/ene/models/LibraryModel.java File Reference

Classes

- class [ene.models.LibraryModel](#)

Packages

- package [ene.models](#)

8.25 src/ene/models/PlayerModel.java File Reference

Classes

- class [ene.models.PlayerModel](#)

Packages

- package [ene.models](#)

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