

Uni App

HOU - Computer Science - 2024-25

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Chapter 1

Namespace Index

1.1 Package List

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

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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Chapter 5

Namespace Documentation

5.1 Package constants

Classes

- class **ColorConstants**

5.2 Package controller

Classes

- class **AboutController**
- class **MainController**
- class **SearchController**
- class **SettingsController**
- class **StatisticsController**
- class **UniGridController**
- class **UniRecDialogController**

5.3 Package HTTP

Classes

- class **WebData**
- class **WebDataFetcher**

5.4 Package model

Packages

- package **SettingsModel**
- package **uniRecModel**

Classes

- class **SearchModel**
- class **StatisticsModel**
- class **UniGridModel**

5.5 Package model.SettingsModel

Classes

- interface **ISettingsModel**
- class **SettingsDAO**
- class **SettingsModel**

5.6 Package model.uniRecModel

Classes

- class **SchoolDepartmentPair**
- class **UniRecDAO**
- class **UniRecDialogModel**

5.7 Package repository.entities

Classes

- class **Country**
- class **Department**
- class **School**
- class **University**

5.8 Package repository.exceptions

Classes

- class **IllegalOrphanException**
- class **NonexistentEntityException**
- class **PreexistingEntityException**

5.9 Package repository.service

Classes

- class **CountryJpaController**
- class **DepartmentJpaController**
- class **Emf**
- class **SchoolJpaController**
- class **UniversityJpaController**
- class **UniversityService**

5.10 Package utils

Classes

- class **CustomEvent**
- class **CustomEventSource**
- interface **ICustomEventListener**
- class **PDFExporter**

5.11 Package view

Packages

- package **settingsForm**

Classes

- class **AboutView**
- class **MainView**
- class **SearchDialogView**
- class **StatisticsView**
- class **UniGridView**
- class **UniRecDialogView**
- class **Utils**

5.12 Package view.settingsForm

Classes

- interface **ISettingsView**
- class **SettingsView**

Chapter 6

Class Documentation

6.1 controller.AboutController Class Reference

Public Member Functions

- void **addCloseFormEventListener** (**ICustomEventListener** listener)
- **AboutView** **getView** ()
- **AboutController** (**AboutView** view)
- void **run** ()

6.1.1 Constructor & Destructor Documentation

6.1.1.1 AboutController()

```
controller.AboutController.AboutController (
    AboutView view)
```

Class constructor

Parameters

<i>view</i>	
-------------	--

6.1.2 Member Function Documentation

6.1.2.1 addCloseFormEventListener()

```
void controller.AboutController.addCloseFormEventListener (
    ICustomEventListener listener)
```

Adds event listener to close button

Parameters

<i>listener</i>	
-----------------	--

Here is the call graph for this function:

**6.1.2.2 getView()**

AboutView controller.AboutController.getView ()

Returns the current view instance

Returns

6.1.2.3 run()

void controller.AboutController.run ()

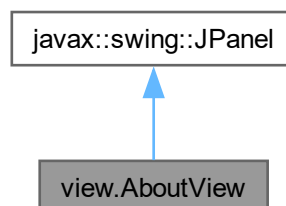
Shows the View

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

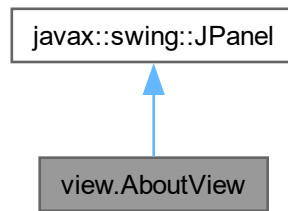
- **AboutController.java**

6.2 view.AboutView Class Reference

Inheritance diagram for view.AboutView:



Collaboration diagram for view.AboutView:



Public Member Functions

- **AboutView** ()
- void **addCloseButtonListener** (ActionListener listener)

6.2.1 Constructor & Destructor Documentation

6.2.1.1 AboutView()

```
view.AboutView.AboutView ()
```

Creates new form About

6.2.2 Member Function Documentation

6.2.2.1 addCloseButtonListener()

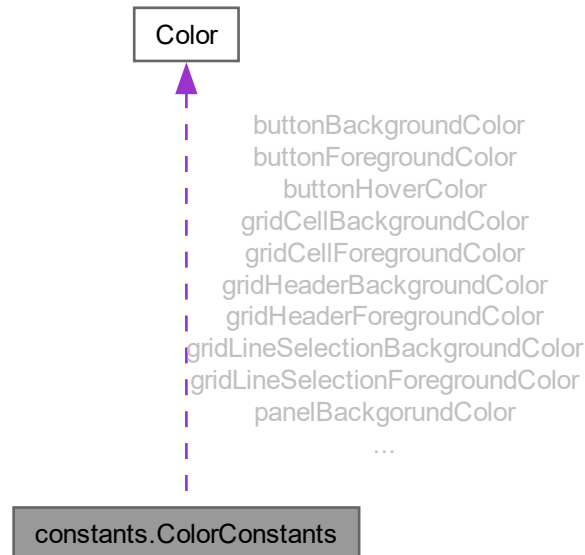
```
void view.AboutView.addCloseButtonListener (  
    ActionListener listener)
```

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

- **AboutView.java**

6.3 constants.ColorConstants Class Reference

Collaboration diagram for constants.ColorConstants:



Static Public Attributes

- static Color **buttonBackgroundColor** = new Color(0, 122, 204)
- static Color **buttonForegroundColor** = new Color(255, 255, 255)
- static Color **buttonHoverColor** = new Color(45, 45, 48)
- static Color **panelBackgorundColor** = new Color(240, 240, 240)
- static Color **textboxBackgroundColor** = new Color(255, 255, 255)
- static Color **textboxForegroundColor** = new Color(255, 255, 255)
- static Color **gridLineSelectionBackgroundColor** = new Color(0, 120, 215)
- static Color **gridLineSelectionForegroundColor** = new Color(255, 255, 255)
- static Color **gridHeaderBackgroundColor** = new Color(45, 45, 48)
- static Color **gridHeaderForegroundColor** = new Color(255, 255, 255)
- static Color **gridCellBackgroundColor** = new Color(255, 255, 255)
- static Color **gridCellForegroundColor** = new Color(0, 0, 0)

6.3.1 Member Data Documentation

6.3.1.1 buttonBackgroundColor

```
Color constants.ColorConstants.buttonBackgroundColor = new Color(0, 122, 204 ) [static]
```


6.3.1.2 buttonForegroundColor

```
Color constants.ColorConstants.buttonForegroundColor = new Color(255, 255, 255) [static]
```

6.3.1.3 buttonHoverColor

```
Color constants.ColorConstants.buttonHoverColor = new Color(45, 45, 48) [static]
```

6.3.1.4 gridCellBackgroundColor

```
Color constants.ColorConstants.gridCellBackgroundColor = new Color(255, 255, 255) [static]
```

6.3.1.5 gridCellForegroundColor

```
Color constants.ColorConstants.gridCellForegroundColor = new Color(0, 0, 0) [static]
```

6.3.1.6 gridHeaderBackgroundColor

```
Color constants.ColorConstants.gridHeaderBackgroundColor = new Color(45, 45, 48) [static]
```

6.3.1.7 gridHeaderForegroundColor

```
Color constants.ColorConstants.gridHeaderForegroundColor = new Color(255, 255, 255) [static]
```

6.3.1.8 gridLineSelectionBackgroundColor

```
Color constants.ColorConstants.gridLineSelectionBackgroundColor = new Color(0, 120, 215) [static]
```

6.3.1.9 gridLineSelectionForegroundColor

```
Color constants.ColorConstants.gridLineSelectionForegroundColor = new Color(255, 255, 255) [static]
```

6.3.1.10 panelBackgorundColor

```
Color constants.ColorConstants.panelBackgorundColor = new Color(240, 240, 240) [static]
```

6.3.1.11 textboxBackgroundColor

```
Color constants.ColorConstants.textboxBackgroundColor = new Color(255, 255, 255) [static]
```

6.3.1.12 textboxForegroundColor

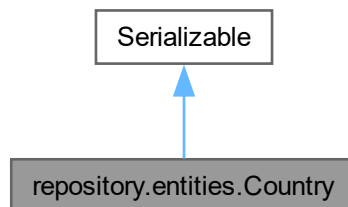
```
Color constants.ColorConstants.textboxForegroundColor = new Color(255, 255, 255) [static]
```

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

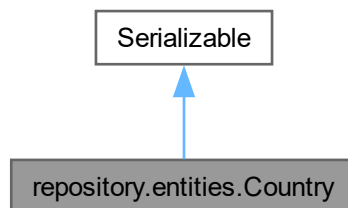
- **ColorConstants.java**

6.4 repository.entities.Country Class Reference

Inheritance diagram for repository.entities.Country:



Collaboration diagram for repository.entities.Country:



Public Member Functions

- **Country** ()
- **Country** (String name)
- String **getName** ()
- void **setName** (String name)
- int **hashCode** ()
- boolean **equals** (Object object)
- String **toString** ()

6.4.1 Constructor & Destructor Documentation

6.4.1.1 Country() [1/2]

```
repository.entities.Country.Country ()
```

6.4.1.2 Country() [2/2]

```
repository.entities.Country.Country (  
    String name)
```

6.4.2 Member Function Documentation

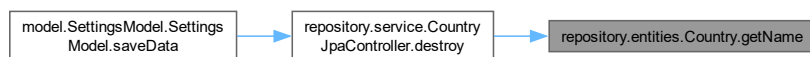
6.4.2.1 equals()

```
boolean repository.entities.Country.equals (  
    Object object)
```

6.4.2.2 getName()

```
String repository.entities.Country.getName ()
```

Here is the caller graph for this function:



6.4.2.3 hashCode()

```
int repository.entities.Country.hashCode ()
```

6.4.2.4 setName()

```
void repository.entities.Country.setName (  
    String name)
```

6.4.2.5 toString()

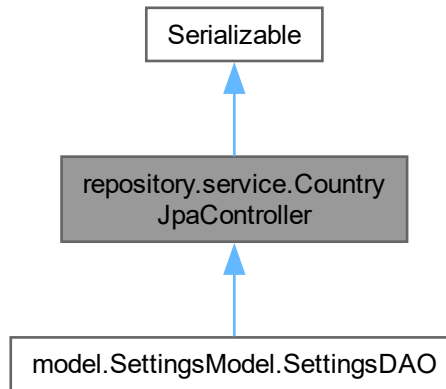
```
String repository.entities.Country.toString ()
```

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

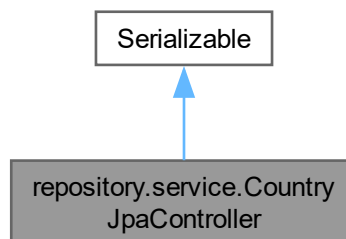
- [Country.java](#)

6.5 repository.service.CountryJpaController Class Reference

Inheritance diagram for repository.service.CountryJpaController:



Collaboration diagram for repository.service.CountryJpaController:



Public Member Functions

- **CountryJpaController** (EntityManagerFactory emf)
- EntityManager **getEntityManager** ()
- void **create** (**Country** country) throws **PreexistingEntityException**, Exception
- void **edit** (**Country** country) throws **NonexistentEntityException**, Exception
- void **destroy** (String id) throws **NonexistentEntityException**
- List< **Country** > **findCountryEntities** ()
- List< **Country** > **findCountryEntities** (int maxResults, int firstResult)
- **Country** **findCountry** (String id)

6.5.1 Constructor & Destructor Documentation

6.5.1.1 CountryJpaController()

```
repository.service.CountryJpaController.CountryJpaController (  
    EntityManagerFactory emf)
```

Here is the caller graph for this function:



6.5.2 Member Function Documentation

6.5.2.1 create()

```
void repository.service.CountryJpaController.create (  
    Country country) throws PreexistingEntityException, Exception
```

Here is the call graph for this function:



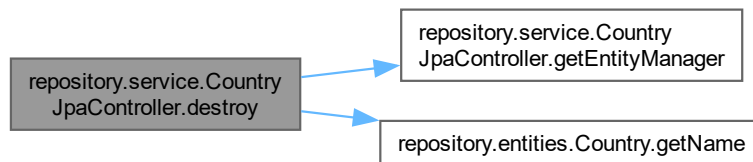
Here is the caller graph for this function:



6.5.2.2 destroy()

```
void repository.service.CountryJpaController.destroy (
    String id) throws NonexistentEntityException
```

Here is the call graph for this function:



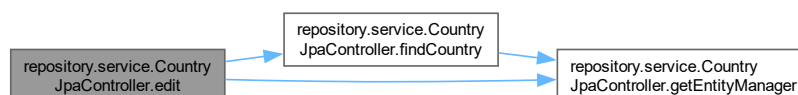
Here is the caller graph for this function:



6.5.2.3 edit()

```
void repository.service.CountryJpaController.edit (
    Country country) throws NonexistentEntityException, Exception
```

Here is the call graph for this function:



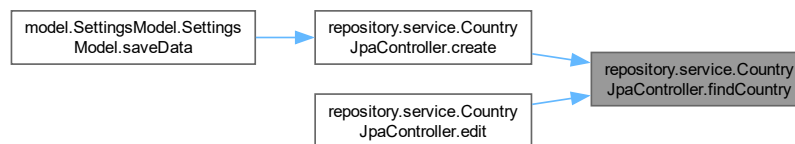
6.5.2.4 findCountry()

```
Country repository.service.CountryJpaController.findCountry (  
    String id)
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.5.2.5 findCountryEntities() [1/2]

```
List< Country > repository.service.CountryJpaController.findCountryEntities ()
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.5.2.6 findCountryEntities() [2/2]

```
List< Country > repository.service.CountryJpaController.findCountryEntities (
    int maxResults,
    int firstResult)
```

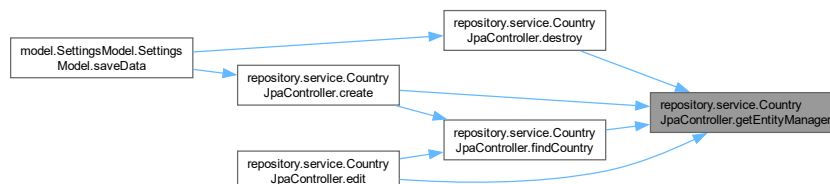
Here is the call graph for this function:



6.5.2.7 getEntityManager()

```
EntityManager repository.service.CountryJpaController.getEntityManager ()
```

Here is the caller graph for this function:

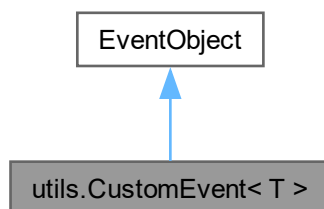


The documentation for this class was generated from the following file:

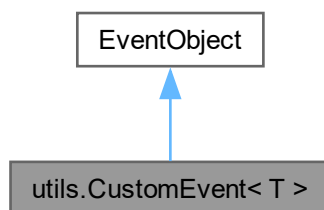
- **CountryJpaController.java**

6.6 `utils.CustomEvent< T >` Class Template Reference

Inheritance diagram for `utils.CustomEvent< T >`:



Collaboration diagram for `utils.CustomEvent< T >`:



Public Member Functions

- **CustomEvent** (Object source, T messageObject)
- T **getMessage** ()

6.6.1 Detailed Description

Custom Event Class Use it to create custom events

Parameters

<code>< T ></code>	
--------------------------	--

6.6.2 Constructor & Destructor Documentation

6.6.2.1 CustomEvent()

```
utils.CustomEvent< T >. CustomEvent (
    Object source,
    T messageObject)
```

6.6.3 Member Function Documentation

6.6.3.1 getEventMessage()

```
T utils.CustomEvent< T >.getEventMessage ()
```

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

- CustomEvent.java

6.7 utils.CustomEventSource< T > Class Template Reference

Public Member Functions

- void **addEventListener** (ICustomEventListener< T > listener)
- void **removeEventListener** (ICustomEventListener< T > listener)
- void **notifyEventListeners** ()
- void **notifyEventListeners** (T message)

6.7.1 Detailed Description

Custom event. Takes a generic parameter as the message to be transferred to the listener

Parameters

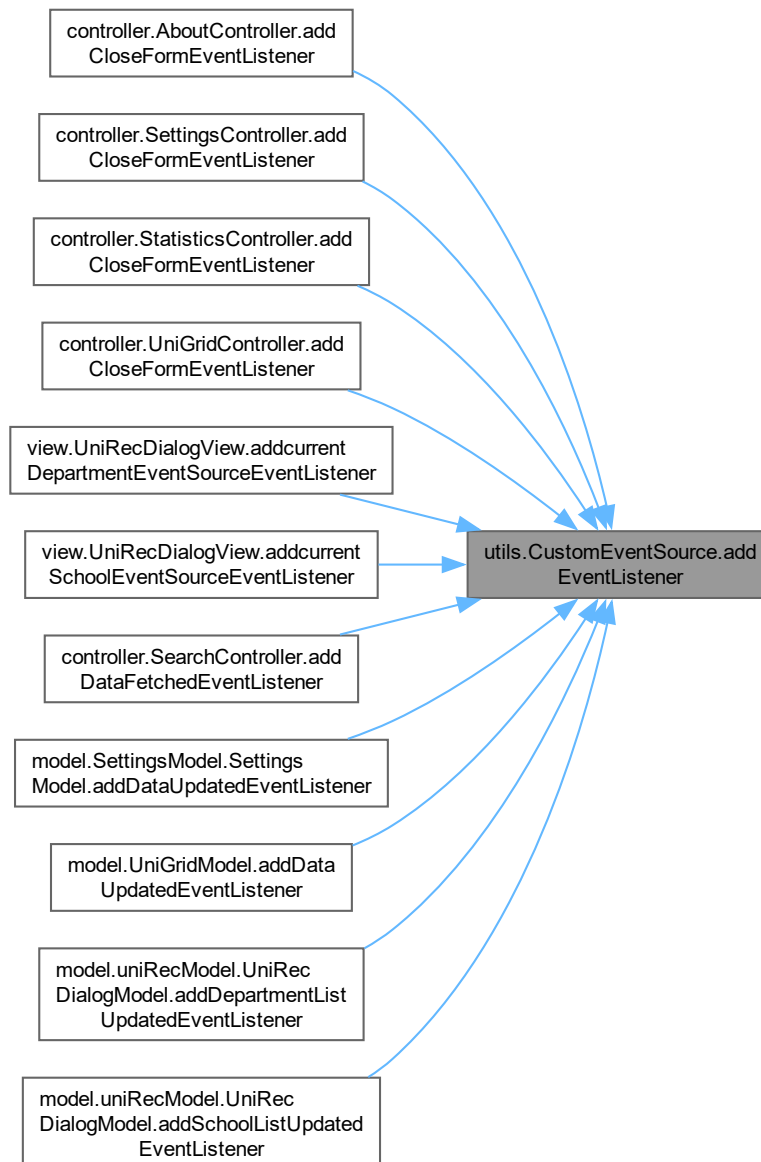
<T>	
-----	--

6.7.2 Member Function Documentation

6.7.2.1 addEventListener()

```
void  utils.CustomEventSource< T >.addEventListener (
    ICustomEventListener< T > listener)
```

Here is the caller graph for this function:



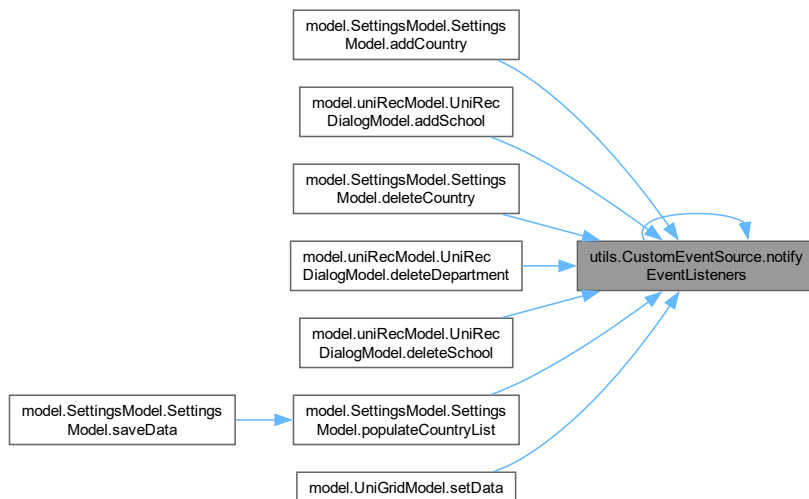
6.7.2.2 notifyEventListeners() [1/2]

```
void  utils.CustomEventSource< T >.notifyEventListeners ()
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.7.2.3 notifyEventListeners() [2/2]

```
void utils.CustomEventSource< T >.notifyEventListeners (
    T message)
```

6.7.2.4 removeEventListener()

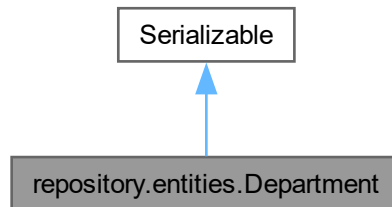
```
void utils.CustomEventSource< T >.removeEventListener (
    ICustomEventListener< T > listener)
```

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

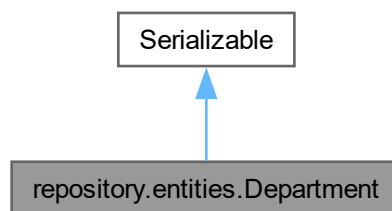
- `CustomEventSource.java`

6.8 repository.entities.Department Class Reference

Inheritance diagram for repository.entities.Department:



Collaboration diagram for repository.entities.Department:



Public Member Functions

- **Department** ()
- **Department** (Integer id)
- Integer **getId** ()
- void **setId** (Integer id)
- String **getName** ()
- void **setName** (String name)
- **School** **getSchoolId** ()
- void **setSchoolId** (**School** schoolId)
- int **hashCode** ()
- boolean **equals** (Object object)
- String **toString** ()

6.8.1 Constructor & Destructor Documentation

6.8.1.1 Department() [1/2]

```
repository.entities.Department.Department ()
```

6.8.1.2 Department() [2/2]

```
repository.entities.Department.Department (
    Integer id)
```

6.8.2 Member Function Documentation

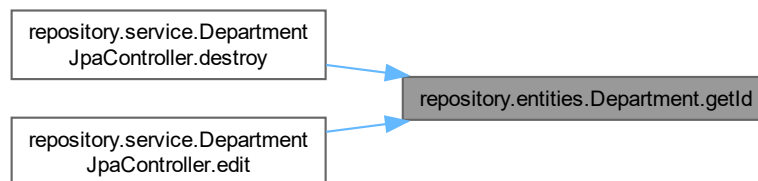
6.8.2.1 equals()

```
boolean repository.entities.Department.equals (
    Object object)
```

6.8.2.2 getId()

```
Integer repository.entities.Department.getId ()
```

Here is the caller graph for this function:



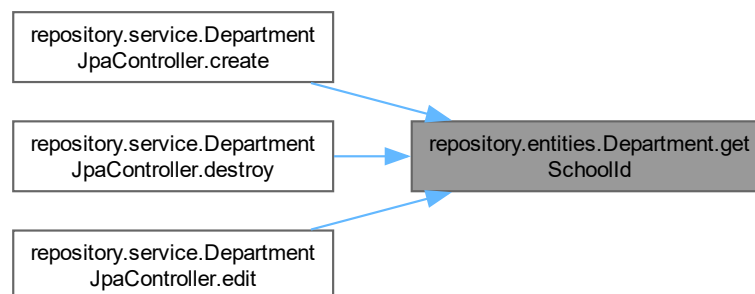
6.8.2.3 getName()

```
String repository.entities.Department.getName ()
```

6.8.2.4 getSchoolId()

```
School repository.entities.Department.getSchoolId ()
```

Here is the caller graph for this function:



6.8.2.5 hashCode()

```
int repository.entities.Department.hashCode ()
```

6.8.2.6 setId()

```
void repository.entities.Department.setId (  
    Integer id)
```

6.8.2.7 setName()

```
void repository.entities.Department.setName (  
    String name)
```

6.8.2.8 setSchoolId()

```
void repository.entities.Department.setSchoolId (  
    School schoolId)
```

Here is the caller graph for this function:



6.8.2.9 toString()

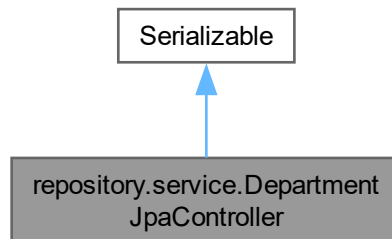
```
String repository.entities.Department.toString ()
```

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

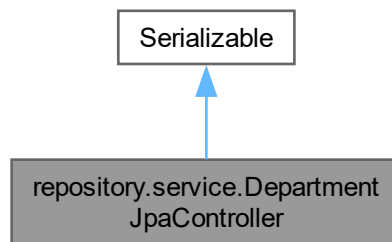
- **Department.java**

6.9 repository.service.DepartmentJpaController Class Reference

Inheritance diagram for repository.service.DepartmentJpaController:



Collaboration diagram for repository.service.DepartmentJpaController:



Public Member Functions

- **DepartmentJpaController** (EntityManagerFactory emf)
- EntityManager **getEntityManager** ()
- void **create** (**Department** department)
- void **edit** (**Department** department) throws **NonexistentEntityException**, Exception
- void **destroy** (Integer id) throws **NonexistentEntityException**
- List< **Department** > **findDepartmentEntities** ()
- List< **Department** > **findDepartmentEntities** (int maxResults, int firstResult)
- **Department** **findDepartment** (Integer id)
- int **getDepartmentCount** ()

6.9.1 Constructor & Destructor Documentation

6.9.1.1 DepartmentJpaController()

```

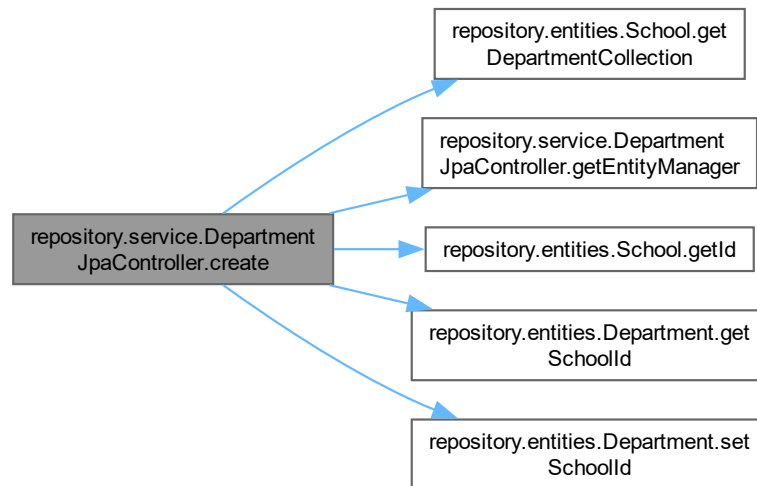
repository.service.DepartmentJpaController.DepartmentJpaController (
    EntityManagerFactory emf)
  
```


6.9.2 Member Function Documentation

6.9.2.1 create()

```
void repository.service.DepartmentJpaController.create (  
    Department department)
```

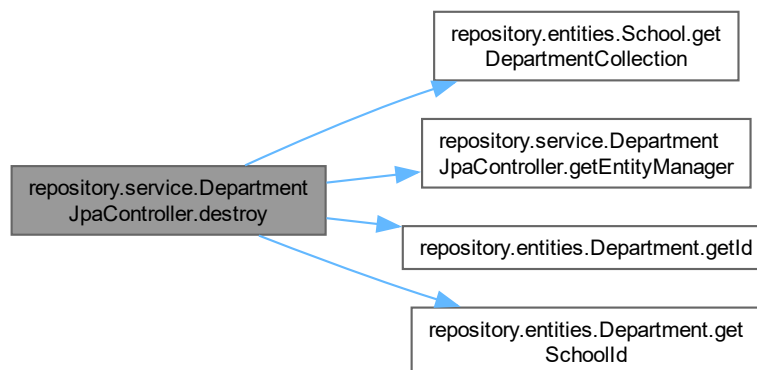
Here is the call graph for this function:



6.9.2.2 destroy()

```
void repository.service.DepartmentJpaController.destroy (  
    Integer id) throws NonexistentEntityException
```

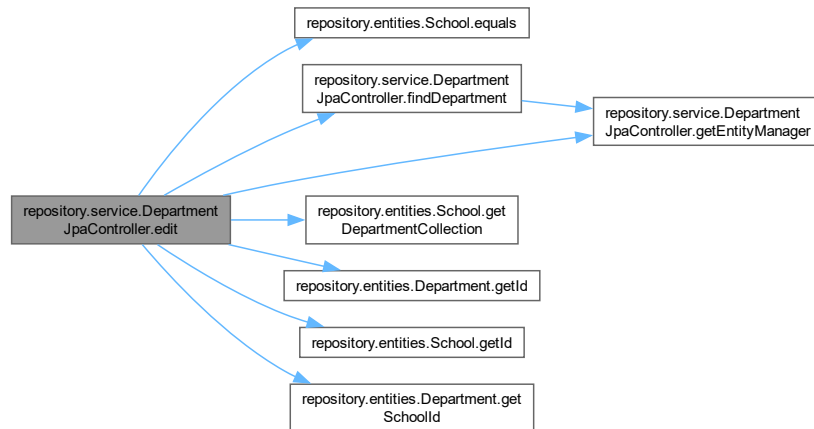
Here is the call graph for this function:



6.9.2.3 edit()

```
void repository.service.DepartmentJpaController.edit (
    Department department) throws NonexistentEntityException, Exception
```

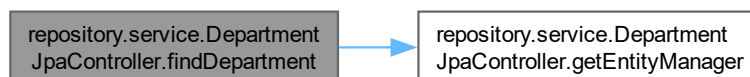
Here is the call graph for this function:



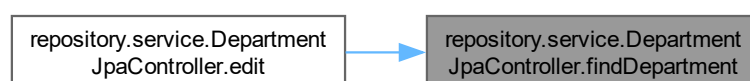
6.9.2.4 findDepartment()

```
Department repository.service.DepartmentJpaController.findDepartment (
    Integer id)
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.9.2.5 findDepartmentEntities() [1/2]

```
List< Department > repository.service.DepartmentJpaController.findDepartmentEntities ()
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.9.2.6 findDepartmentEntities() [2/2]

```
List< Department > repository.service.DepartmentJpaController.findDepartmentEntities (  
    int maxResults,  
    int firstResult)
```

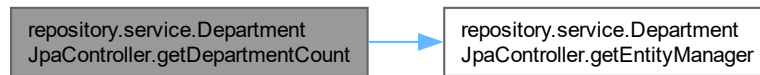
Here is the call graph for this function:



6.9.2.7 getDepartmentCount()

```
int repository.service.DepartmentJpaController.getDepartmentCount ()
```

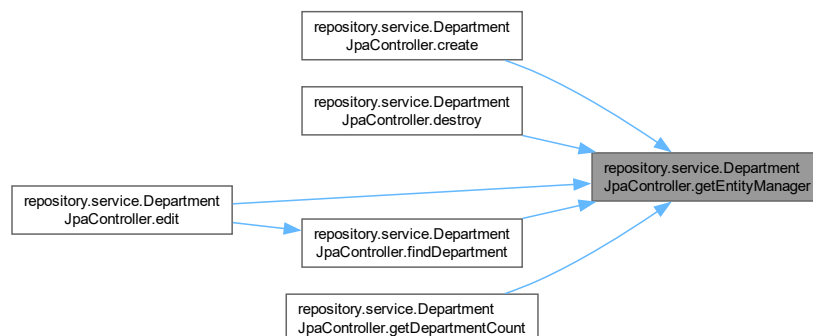
Here is the call graph for this function:



6.9.2.8 getEntityManager()

```
EntityManager repository.service.DepartmentJpaController.getEntityManager ()
```

Here is the caller graph for this function:



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

- **DepartmentJpaController.java**

6.10 repository.service.Emf Class Reference

Static Public Member Functions

- static EntityManagerFactory **getEntityManagerFactory** ()
- static void **closeEntityManagerFactory** ()

6.10.1 Detailed Description

Singleton class to create and return a single Entity Factory Manager

6.10.2 Member Function Documentation

6.10.2.1 closeEntityManagerFactory()

```
static void repository.service.Emf.closeEntityManagerFactory () [static]
```

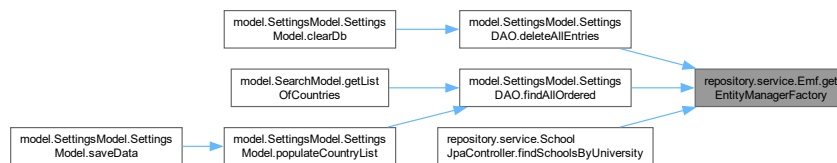
Here is the caller graph for this function:



6.10.2.2 getEntityManagerFactory()

```
static EntityManagerFactory repository.service.Emf.getEntityManagerFactory () [static]
```

Here is the caller graph for this function:



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

- **Emf.java**

6.11 utils.ICustomEventListener< T > Interface Template Reference

Public Member Functions

- void **onCustomEvent** (CustomEvent< T > e)

6.11.1 Detailed Description

Interface for custom listener

Parameters

<T>	
-----	--

6.11.2 Member Function Documentation

6.11.2.1 onCustomEvent()

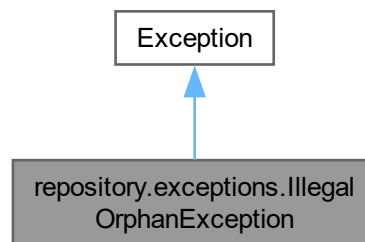
```
void  utils.ICustomEventListener< T >.onCustomEvent (
    CustomEvent< T > e)
```

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

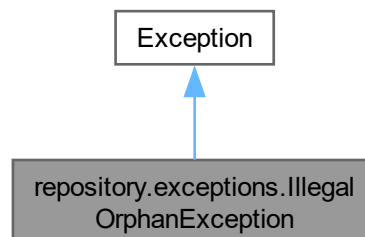
- ICustomEventListener.java

6.12 repository.exceptions.IllegalOrphanException Class Reference

Inheritance diagram for repository.exceptions.IllegalOrphanException:



Collaboration diagram for repository.exceptions.IllegalOrphanException:



Public Member Functions

- **IllegalOrphanException** (List< String > messages)
- List< String > **getMessages** ()

6.12.1 Constructor & Destructor Documentation**6.12.1.1 IllegalOrphanException()**

```
repository.exceptions.IllegalOrphanException.IllegalOrphanException (
    List< String > messages)
```

6.12.2 Member Function Documentation**6.12.2.1 getMessages()**

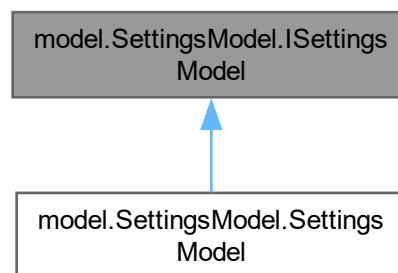
```
List< String > repository.exceptions.IllegalOrphanException.getMessages ()
```

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

- **IllegalOrphanException.java**

6.13 model.SettingsModel.ISettingsModel Interface Reference

Inheritance diagram for model.SettingsModel.ISettingsModel:

**Public Member Functions**

- void **addCountry** (**Country** country)
- void **deleteCountry** (int index)
- List< **Country** > **getCountries** ()
- **Country** **getCountry** (int index)
- void **populateCountryList** ()
- void **saveData** () throws Exception
- void **clearDb** () throws Exception
- void **addDataUpdatedEventListener** (**ICustomEventListener**< List< **Country** > > listener)

6.13.1 Detailed Description

Settings Model Interface. Used for allowing dependency inversion in Settings Model

6.13.2 Member Function Documentation

6.13.2.1 addCountry()

```
void model.SettingsModel.ISettingsModel.addCountry (
    Country country)
```

Adds a new country

Parameters

<i>country</i>	
----------------	--

Implemented in **model.SettingsModel.SettingsModel** (p. 76).

6.13.2.2 addDataUpdatedEventListener()

```
void model.SettingsModel.ISettingsModel.addDataUpdatedEventListener (
    ICustomEventListener< List< Country > > listener)
```

Helper method to add event listeners to the ListUpadated event

Parameters

<i>listener</i>	
-----------------	--

Implemented in **model.SettingsModel.SettingsModel** (p. 76).

6.13.2.3 clearDb()

```
void model.SettingsModel.ISettingsModel.clearDb () throws Exception
```

Cascade deletes all universities

Exceptions

<i>Exception</i>	
------------------	--

Implemented in **model.SettingsModel.SettingsModel** (p. 77).

6.13.2.4 deleteCountry()

```
void model.SettingsModel.ISettingsModel.deleteCountry (
    int index)
```

Deletes an existing country

Parameters

<i>index</i>	
--------------	--

Implemented in **model.SettingsModel.SettingsModel** (p. 77).

6.13.2.5 getCountries()

```
List< Country > model.SettingsModel.ISettingsModel.getCountries ()
```

Returns the private list of Countries

Returns

List<Country>

Implemented in **model.SettingsModel.SettingsModel** (p. 78).

6.13.2.6 getCountry()

```
Country model.SettingsModel.ISettingsModel.getCountry (
    int index)
```

Returns the Country Object of a country record

Parameters

<i>index</i>	
--------------	--

Returns

Country

Implemented in **model.SettingsModel.SettingsModel** (p. 78).

6.13.2.7 populateCountryList()

```
void model.SettingsModel.ISettingsModel.populateCountryList ()
```

Populates a private list of Country type with all the available countries in the DB

Implemented in **model.SettingsModel.SettingsModel** (p. 79).

6.13.2.8 saveData()

```
void model.SettingsModel.ISettingsModel.saveData () throws Exception
```

Inserts or Deletes any changes made on the Countries list to the Country DB table

Exceptions

<i>Exception</i>	
------------------	--

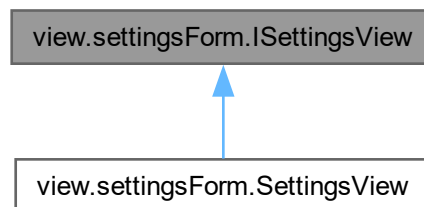
Implemented in **model.SettingsModel.SettingsModel** (p. 79).

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

- **ISettingsModel.java**

6.14 view.settingsForm.ISettingsView Interface Reference

Inheritance diagram for view.settingsForm.ISettingsView:



Public Member Functions

- void **addSaveEventListener** (ActionListener listener)
- void **addCloseEventListener** (ActionListener listener)
- void **addClearDbEventListener** (ActionListener listener)
- void **addDeleteEntryEventListener** (ActionListener listener)
- void **addAddEntryEventListener** (ActionListener listener)
- void **show** ()
- int **getSelectedRowIndex** ()
- String **getCountryTextBox** ()
- void **setCountryTextBox** (String countryName)
- void **updateGrid** (List< **Country** > data)
- < T > T **getView** ()
- void **setClearDBbtnText** (String press_to_delete_permanently)

6.14.1 Member Function Documentation

6.14.1.1 addAddEntryEventListener()

```
void view.settingsForm.ISettingsView.addAddEntryEventListener (
    ActionListener listener)
```

Implemented in **view.settingsForm.SettingsView** (p. 81).

6.14.1.2 addClearDbEventListener()

```
void view.settingsForm.ISettingsView.addClearDbEventListener (
    ActionListener listener)
```

Implemented in **view.settingsForm.SettingsView** (p.81).

6.14.1.3 addCloseEventListener()

```
void view.settingsForm.ISettingsView.addCloseEventListener (
    ActionListener listener)
```

Implemented in **view.settingsForm.SettingsView** (p.81).

6.14.1.4 addDeleteEntryEventListener()

```
void view.settingsForm.ISettingsView.addDeleteEntryEventListener (
    ActionListener listener)
```

Implemented in **view.settingsForm.SettingsView** (p.82).

6.14.1.5 addSaveEventListener()

```
void view.settingsForm.ISettingsView.addSaveEventListener (
    ActionListener listener)
```

Implemented in **view.settingsForm.SettingsView** (p.82).

6.14.1.6 getCountryTextBox()

```
String view.settingsForm.ISettingsView.getCountryTextBox ()
```

Implemented in **view.settingsForm.SettingsView** (p.82).

6.14.1.7 getSelectedRowIndex()

```
int view.settingsForm.ISettingsView.getSelectedRowIndex ()
```

Implemented in **view.settingsForm.SettingsView** (p.82).

6.14.1.8 getView()

```
< T > T view.settingsForm.ISettingsView.getView ()
```

Implemented in **view.settingsForm.SettingsView** (p.82).

6.14.1.9 setClearDBbtnText()

```
void view.settingsForm.ISettingsView.setClearDBbtnText (
    String press_to_delete_permantly)
```

Implemented in **view.settingsForm.SettingsView** (p. 82).

6.14.1.10 setCountryTextBox()

```
void view.settingsForm.ISettingsView.setCountryTextBox (
    String countryName)
```

Implemented in **view.settingsForm.SettingsView** (p. 82).

6.14.1.11 show()

```
void view.settingsForm.ISettingsView.show ()
```

Implemented in **view.settingsForm.SettingsView** (p. 83).

Here is the caller graph for this function:



6.14.1.12 updateGrid()

```
void view.settingsForm.ISettingsView.updateGrid (
    List< Country > data)
```

Implemented in **view.settingsForm.SettingsView** (p. 83).

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

- **ISettingsView.java**

6.15 Main Class Reference

Static Public Member Functions

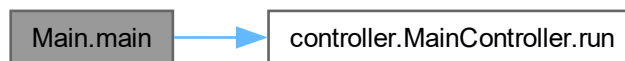
- static void **main** (String[] args)

6.15.1 Member Function Documentation

6.15.1.1 main()

```
static void Main.main (  
    String[] args) [static]
```

Here is the call graph for this function:



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

- **Main.java**

6.16 controller.MainController Class Reference

Public Member Functions

- **MainController** (**MainView** view)
- void **run** ()

6.16.1 Detailed Description

Controller. Part of the **MainController** (p. 45) MVC

6.16.2 Constructor & Destructor Documentation

6.16.2.1 MainController()

```
controller.MainController.MainController (  
    MainView view)
```

Class constructor. Maps all events listeners to methods

Parameters

<i>view</i>	
-------------	--

Here is the call graph for this function:



6.16.3 Member Function Documentation

6.16.3.1 `run()`

```
void controller.MainController.run ()
```

Shows the view in the middle of the screen Here is the caller graph for this function:

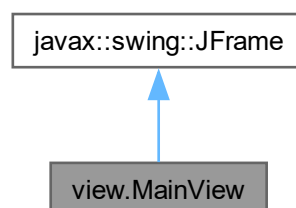


The documentation for this class was generated from the following file:

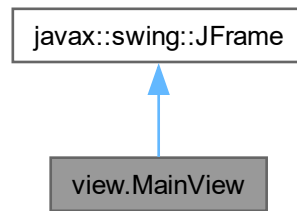
- `MainController.java`

6.17 view.MainView Class Reference

Inheritance diagram for `view.MainView`:



Collaboration diagram for view.MainView:



Public Member Functions

- **MainView** ()
- void **addPanel** (JPanel panel)
- void **removePanel** (JPanel panel)
- void **addUniBtnListener** (ActionListener listener)
- void **addExitBtnListener** (ActionListener listener)
- void **addAboutBtnListener** (ActionListener listener)
- void **addSettingsBtnListener** (ActionListener listener)
- void **addStatsBtnListener** (ActionListener listener)

6.17.1 Constructor & Destructor Documentation

6.17.1.1 MainView()

```
view.MainView.MainView ()
```

Creates the main dashboard

6.17.2 Member Function Documentation

6.17.2.1 addAboutBtnListener()

```
void view.MainView.addAboutBtnListener (  
    ActionListener listener)
```

6.17.2.2 addExitBtnListener()

```
void view.MainView.addExitBtnListener (  
    ActionListener listener)
```

6.17.2.3 addPanel()

```
void view.MainView.addPanel (  
    JPanel panel)
```

6.17.2.4 addSettingsBtnListener()

```
void view.MainView.addSettingsBtnListener (  
    ActionListener listener)
```

6.17.2.5 addStatsBtnListener()

```
void view.MainView.addStatsBtnListener (  
    ActionListener listener)
```

6.17.2.6 addUniBtnListener()

```
void view.MainView.addUniBtnListener (  
    ActionListener listener)
```

6.17.2.7 removePanel()

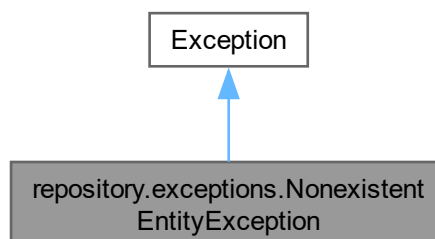
```
void view.MainView.removePanel (  
    JPanel panel)
```

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

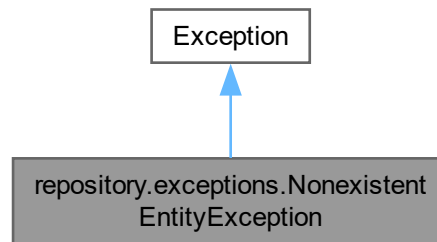
- **MainView.java**

6.18 repository.exceptions.NonexistentEntityException Class Reference

Inheritance diagram for repository.exceptions.NonexistentEntityException:



Collaboration diagram for repository.exceptions.NonexistentEntityException:



Public Member Functions

- **NonexistentEntityException** (String message, Throwable cause)
- **NonexistentEntityException** (String message)

6.18.1 Constructor & Destructor Documentation

6.18.1.1 NonexistentEntityException() [1/2]

```
repository.exceptions.NonexistentEntityException.NonexistentEntityException (
    String message,
    Throwable cause)
```

6.18.1.2 NonexistentEntityException() [2/2]

```
repository.exceptions.NonexistentEntityException.NonexistentEntityException (
    String message)
```

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

- **NonexistentEntityException.java**

6.19 utils.PDFExporter Class Reference

Static Public Member Functions

- static void **exportToPDF** (JTable table, String filePath)

6.19.1 Detailed Description

Converts a jatable table to PDF document

6.19.2 Member Function Documentation

6.19.2.1 exportToPDF()

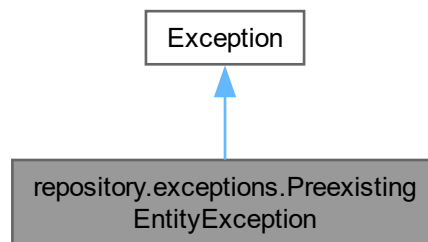
```
static void utils.PDFExporter.exportToPDF (  
    JTable table,  
    String filePath) [static]
```

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

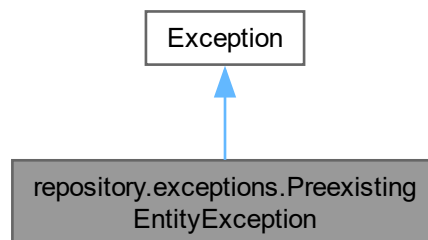
- **PDFExporter.java**

6.20 repository.exceptions.PreexistingEntityException Class Reference

Inheritance diagram for repository.exceptions.PreexistingEntityException:



Collaboration diagram for repository.exceptions.PreexistingEntityException:



Public Member Functions

- **PreexistingEntityException** (String message, Throwable cause)
- **PreexistingEntityException** (String message)

6.20.1 Constructor & Destructor Documentation

6.20.1.1 PreexistingEntityException() [1/2]

```
repository.exceptions.PreexistingEntityException.PreexistingEntityException (  
    String message,  
    Throwable cause)
```

6.20.1.2 PreexistingEntityException() [2/2]

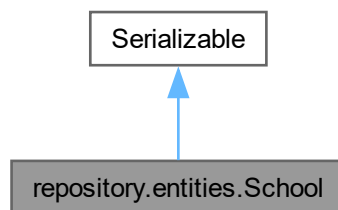
```
repository.exceptions.PreexistingEntityException.PreexistingEntityException (  
    String message)
```

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

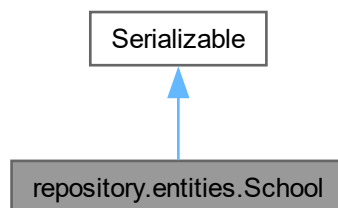
- **PreexistingEntityException.java**

6.21 repository.entities.School Class Reference

Inheritance diagram for repository.entities.School:



Collaboration diagram for repository.entities.School:



Public Member Functions

- **School** ()
- **School** (Integer id)
- **School** (Integer id, String name)
- Integer **getId** ()
- void **setId** (Integer id)
- String **getName** ()
- void **setName** (String name)
- **University** **getUniversityName** ()
- void **setUniversityName** (**University** universityName)
- Collection< **Department** > **getDepartmentCollection** ()
- void **setDepartmentCollection** (Collection< **Department** > departmentCollection)
- int **hashCode** ()
- boolean **equals** (Object object)
- String **toString** ()

6.21.1 Constructor & Destructor Documentation

6.21.1.1 School() [1/3]

```
repository.entities.School.School ()
```

6.21.1.2 School() [2/3]

```
repository.entities.School.School (
    Integer id)
```

6.21.1.3 School() [3/3]

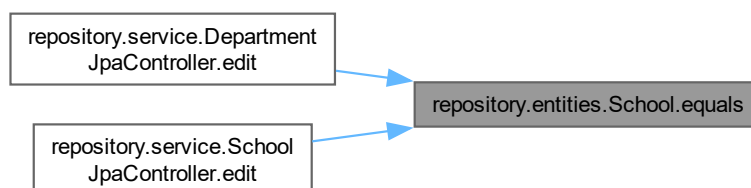
```
repository.entities.School.School (
    Integer id,
    String name)
```

6.21.2 Member Function Documentation

6.21.2.1 equals()

```
boolean repository.entities.School.equals (
    Object object)
```

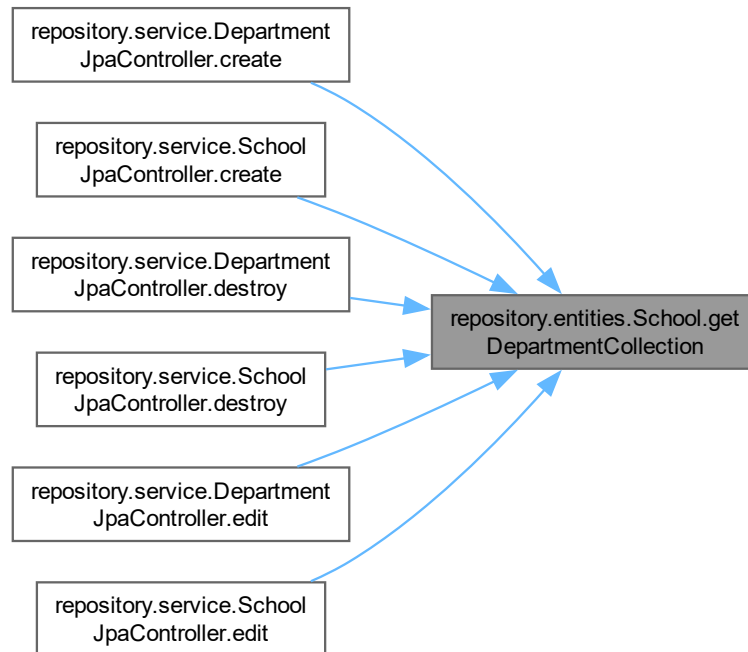
Here is the caller graph for this function:



6.21.2.2 getDepartmentCollection()

```
Collection< Department > repository.entities.School.getDepartmentCollection ()
```

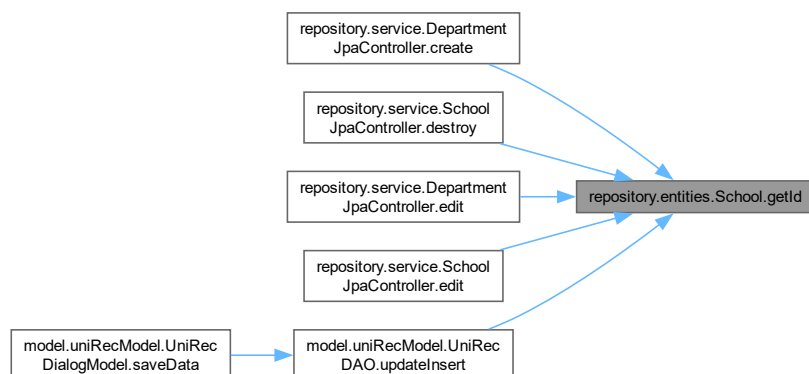
Here is the caller graph for this function:



6.21.2.3 getId()

```
Integer repository.entities.School.getId ()
```

Here is the caller graph for this function:



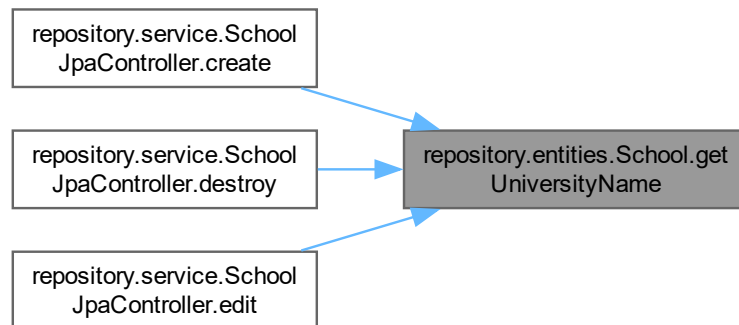
6.21.2.4 getName()

```
String repository.entities.School.getName ()
```

6.21.2.5 getUniversityName()

```
University repository.entities.School.getUniversityName ()
```

Here is the caller graph for this function:



6.21.2.6 hashCode()

```
int repository.entities.School.hashCode ()
```

6.21.2.7 setDepartmentCollection()

```
void repository.entities.School.setDepartmentCollection (  
    Collection< Department > departmentCollection)
```

Here is the caller graph for this function:



6.21.2.8 setId()

```
void repository.entities.School.setId (
    Integer id)
```

6.21.2.9 setName()

```
void repository.entities.School.setName (
    String name)
```

6.21.2.10 setUniversityName()

```
void repository.entities.School.setUniversityName (
    University universityName)
```

Here is the caller graph for this function:

**6.21.2.11 toString()**

```
String repository.entities.School.toString ()
```

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

- **School.java**

6.22 model.uniRecModel.SchoolDepartmentPair Class Reference**Public Member Functions**

- **SchoolDepartmentPair** (**School** school, List< **Department** > departmentList)
- **School** getSchool ()
- void **setSchool** (**School** school)
- List< **Department** > **getDepartmentList** ()
- void **addDepartment** (**Department** department)
- void **deleteDepartment** (**Department** department)

6.22.1 Constructor & Destructor Documentation

6.22.1.1 SchoolDepartmentPair()

```
model.uniRecModel.SchoolDepartmentPair.SchoolDepartmentPair (
    School school,
    List< Department > departmentList)
```

6.22.2 Member Function Documentation

6.22.2.1 addDepartment()

```
void model.uniRecModel.SchoolDepartmentPair.addDepartment (
    Department department)
```

6.22.2.2 deleteDepartment()

```
void model.uniRecModel.SchoolDepartmentPair.deleteDepartment (
    Department department)
```

6.22.2.3 getDepartmentList()

```
List< Department > model.uniRecModel.SchoolDepartmentPair.getDepartmentList ()
```

6.22.2.4 getSchool()

```
School model.uniRecModel.SchoolDepartmentPair.getSchool ()
```

6.22.2.5 setSchool()

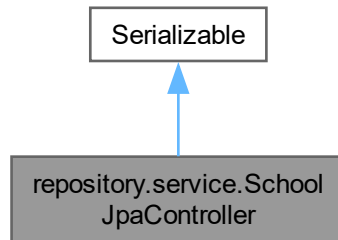
```
void model.uniRecModel.SchoolDepartmentPair.setSchool (
    School school)
```

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

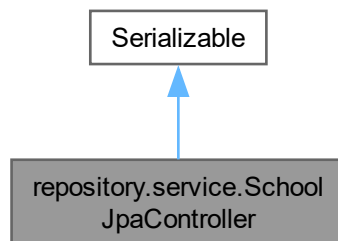
- **SchoolDepartmentPair.java**

6.23 repository.service.SchoolJpaController Class Reference

Inheritance diagram for repository.service.SchoolJpaController:



Collaboration diagram for repository.service.SchoolJpaController:



Public Member Functions

- **SchoolJpaController** (EntityManagerFactory emf)
- EntityManager **getEntityManager** ()
- void **create** (**School** school)
- void **edit** (**School** school) throws **IllegalOrphanException**, **NonexistentEntityException**, Exception
- void **destroy** (Integer id) throws **IllegalOrphanException**, **NonexistentEntityException**
- List< **School** > **findSchoolEntities** ()
- List< **School** > **findSchoolEntities** (int maxResults, int firstResult)
- **School** **findSchool** (Integer id)
- int **getSchoolCount** ()
- List< **School** > **findSchoolsByUniversity** (String universityName)
- **School** **findSchoolByNameAndUniversity** (String schoolName, String universityName)

6.23.1 Constructor & Destructor Documentation

6.23.1.1 SchoolJpaController()

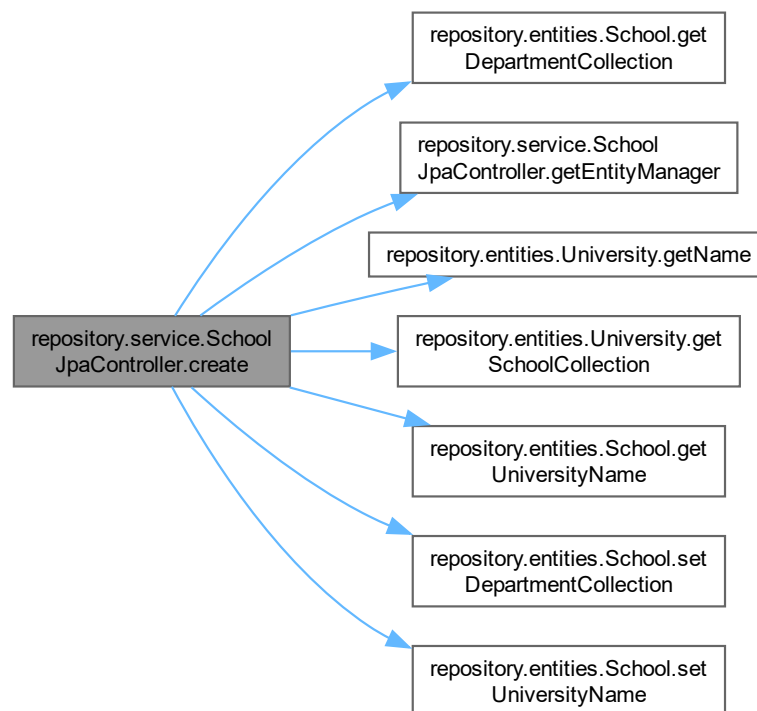
```
repository.service.SchoolJpaController.SchoolJpaController (  
    EntityManagerFactory emf)
```

6.23.2 Member Function Documentation

6.23.2.1 create()

```
void repository.service.SchoolJpaController.create (  
    School school)
```

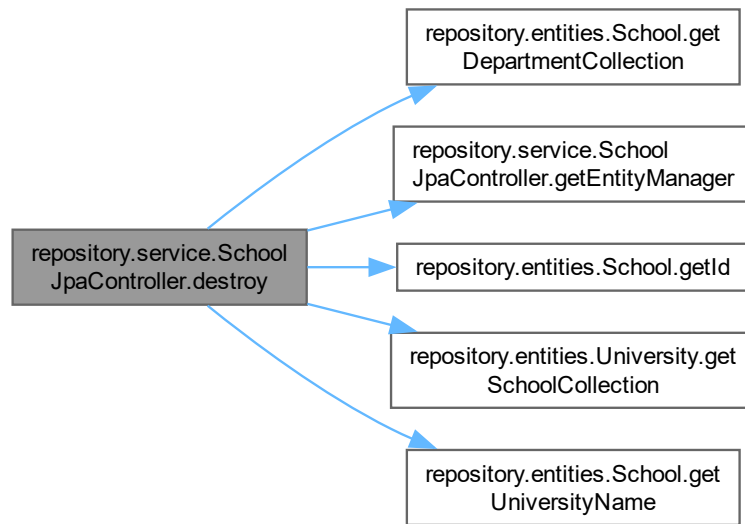
Here is the call graph for this function:



6.23.2.2 destroy()

```
void repository.service.SchoolJpaController.destroy (  
    Integer id) throws IllegalOrphanException, NonexistentEntityException
```

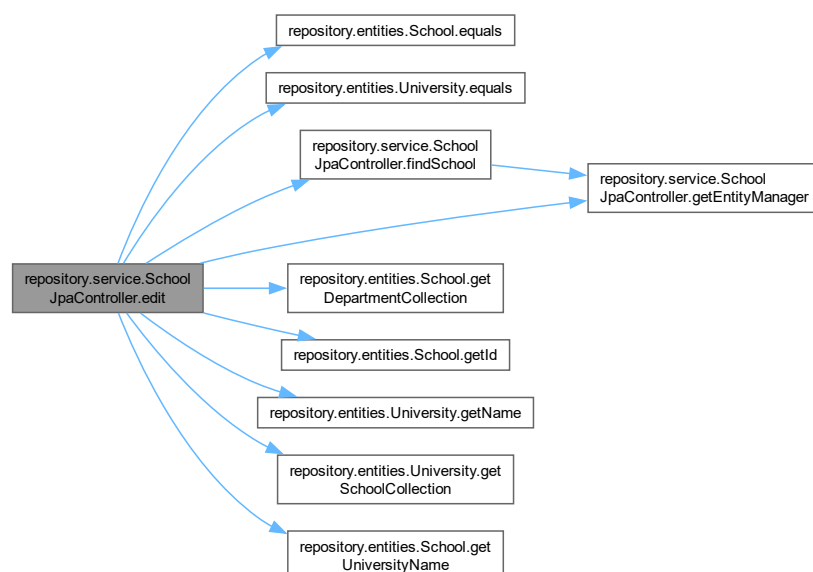
Here is the call graph for this function:



6.23.2.3 edit()

```
void repository.service.SchoolJpaController.edit (
    School school) throws IllegalOrphanException, NonexistentEntityException,
    Exception
```

Here is the call graph for this function:



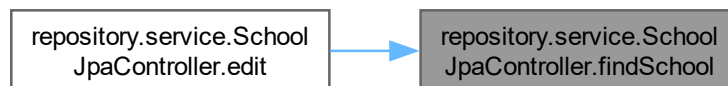
6.23.2.4 findSchool()

```
School repository.service.SchoolJpaController.findSchool (  
    Integer id)
```

Here is the call graph for this function:



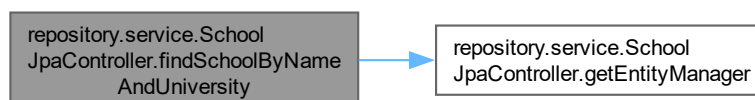
Here is the caller graph for this function:



6.23.2.5 findSchoolByNameAndUniversity()

```
School repository.service.SchoolJpaController.findSchoolByNameAndUniversity (  
    String schoolName,  
    String universityName)
```

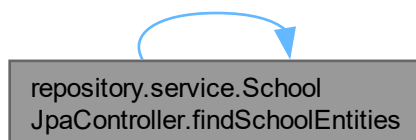
Here is the call graph for this function:



6.23.2.6 findSchoolEntities() [1/2]

```
List< School > repository.service.SchoolJpaController.findSchoolEntities ()
```

Here is the call graph for this function:



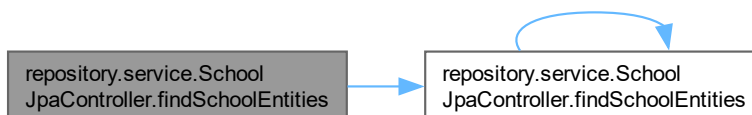
Here is the caller graph for this function:



6.23.2.7 findSchoolEntities() [2/2]

```
List< School > repository.service.SchoolJpaController.findSchoolEntities (  
    int maxResults,  
    int firstResult)
```

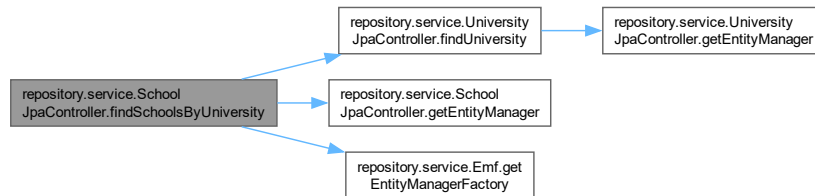
Here is the call graph for this function:



6.23.2.8 findSchoolsByUniversity()

```
List< School > repository.service.SchoolJpaController.findSchoolsByUniversity (
    String universityName)
```

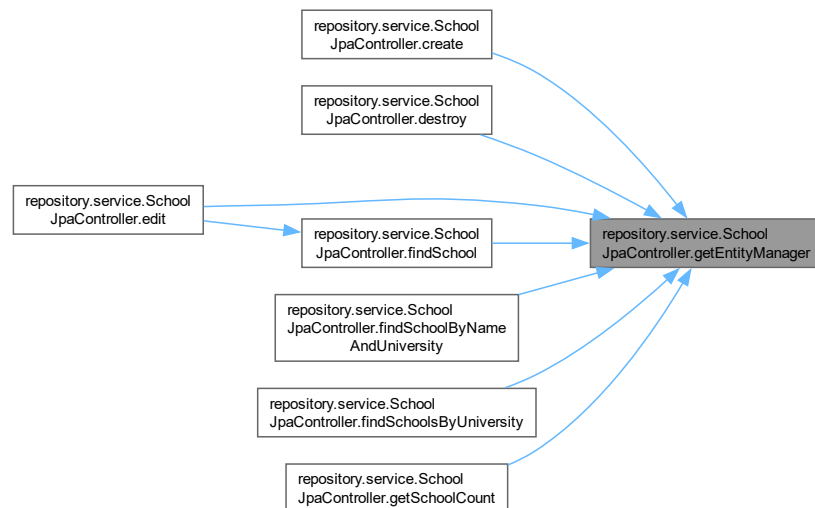
Here is the call graph for this function:



6.23.2.9 getEntityManager()

```
EntityManager repository.service.SchoolJpaController.getEntityManager ()
```

Here is the caller graph for this function:



6.23.2.10 getSchoolCount()

```
int repository.service.SchoolJpaController.getSchoolCount ()
```

Here is the call graph for this function:

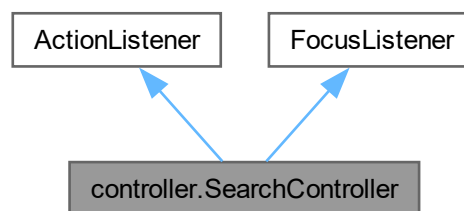


The documentation for this class was generated from the following file:

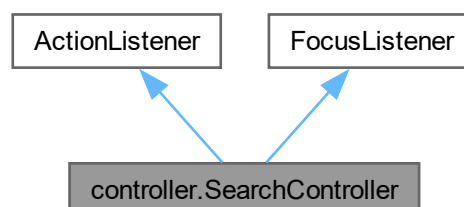
- `SchoolJpaController.java`

6.24 controller.SearchController Class Reference

Inheritance diagram for controller.SearchController:



Collaboration diagram for controller.SearchController:



Public Member Functions

- void **addDataFetchedEventListener** (**ICustomEventListener**< List< **WebData** > > listener)
- **SearchController** (**SearchDialogView** view, **SearchModel** model)
- void **run** ()
- void **actionPerformed** (ActionEvent e)
- void **focusLost** (FocusEvent e)
- void **focusGained** (FocusEvent e)

6.24.1 Detailed Description

Search Controller. Part of the Search MVC

6.24.2 Constructor & Destructor Documentation

6.24.2.1 SearchController()

```
controller.SearchController.SearchController (
    SearchDialogView view,
    SearchModel model)
```

MVC constructor Maps all event listeners to methods

Parameters

<i>view</i>	
<i>model</i>	

6.24.3 Member Function Documentation

6.24.3.1 actionPerformed()

```
void controller.SearchController.actionPerformed (
   (ActionEvent e)
```

Implementation if the ActionListener interface.

Parameters

<i>e</i>	
----------	--

6.24.3.2 addDataFetchedEventListener()

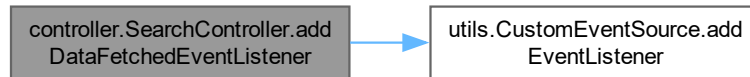
```
void controller.SearchController.addDataFetchedEventListener (
    ICustomEventListener< List< WebData > > listener)
```

Adds event listener to data fetched event

Parameters

<i>listener</i>	
-----------------	--

Here is the call graph for this function:



6.24.3.3 focusGained()

```
void controller.SearchController.focusGained (  
    FocusEvent e)
```

Implementation of the FocusListener interface.

Parameters

<i>e</i>	
----------	--

6.24.3.4 focusLost()

```
void controller.SearchController.focusLost (  
    FocusEvent e)
```

Implementation of the FocusListener interface.

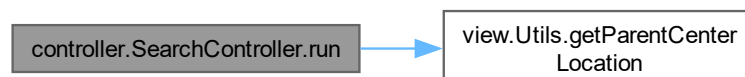
Parameters

<i>e</i>	
----------	--

6.24.3.5 run()

```
void controller.SearchController.run ()
```

Shows the view in the center of the parent window Here is the call graph for this function:

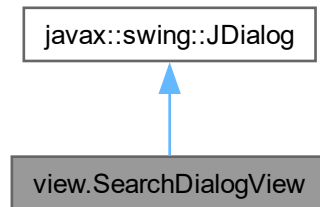


The documentation for this class was generated from the following file:

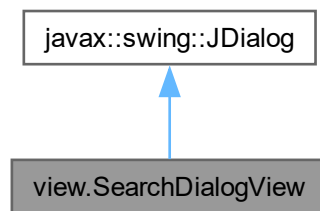
- **SearchController.java**

6.25 view.SearchDialogView Class Reference

Inheritance diagram for view.SearchDialogView:



Collaboration diagram for view.SearchDialogView:



Public Member Functions

- void **populateComboBox** (List< **Country** > countries)
- void **addSearchBtnActionListener** (ActionListener listener)
- void **addCancelBtnActionListener** (ActionListener listener)
- void **addUniversityNameTextBoxActionListener** (ActionListener listener)
- void **addUniversityNameTextBoxFocusListener** (FocusListener listener)
- void **addCountryComboBoxFocusListener** (FocusListener listener)
- String **getUniversityName** ()
- String **getCountry** ()
- void **setErrorLabelVisible** (Boolean visibility)
- void **setInfoLabelVisible** (Boolean visibility)
- void **setInfoLabelText** (String text)
- **SearchDialogView** (java.awt.Frame parent, boolean modal)

6.25.1 Constructor & Destructor Documentation

6.25.1.1 SearchDialogView()

```
view.SearchDialogView.SearchDialogView (  
    java.awt.Frame parent,  
    boolean modal)
```

Creates new form searchDialogVidew

Parameters

<i>parent</i>	
<i>modal</i>	

6.25.2 Member Function Documentation

6.25.2.1 addCancelBtnActionListener()

```
void view.SearchDialogView.addCancelBtnActionListener (  
    ActionListener listener)
```

6.25.2.2 addCountryComboBoxFocusListener()

```
void view.SearchDialogView.addCountryComboBoxFocusListener (  
    FocusListener listener)
```

6.25.2.3 addSearchBtnActionListener()

```
void view.SearchDialogView.addSearchBtnActionListener (  
    ActionListener listener)
```

6.25.2.4 addUniversityNameTextBoxActionListener()

```
void view.SearchDialogView.addUniversityNameTextBoxActionListener (  
    ActionListener listener)
```

6.25.2.5 addUniversityNameTextBoxFocusListener()

```
void view.SearchDialogView.addUniversityNameTextBoxFocusListener (  
    FocusListener listener)
```

6.25.2.6 getCountry()

```
String view.SearchDialogView.getCountry ()
```

6.25.2.7 getUniversityName()

```
String view.SearchDialogView.getUniversityName ()
```

6.25.2.8 populateComboBox()

```
void view.SearchDialogView.populateComboBox (  
    List< Country > countries)
```

6.25.2.9 setErrorLabelVisible()

```
void view.SearchDialogView.setErrorLabelVisible (  
    Boolean visibility)
```

6.25.2.10 setInfoLabelText()

```
void view.SearchDialogView.setInfoLabelText (  
    String text)
```

6.25.2.11 setInfoLabelVisible()

```
void view.SearchDialogView.setInfoLabelVisible (  
    Boolean visibility)
```

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

- **SearchDialogView.java**

6.26 model.SearchModel Class Reference

Public Member Functions

- List< **Country** > **getListOfCountries** ()
- String **getUniversityName** ()
- void **setUniversityName** (String universityName)
- String **getCountry** ()
- void **setCountry** (String country)
- Boolean **validate** (String name, String country)
- String **getSearchString** ()

6.26.1 Detailed Description

Model part of the Search MVC

6.26.2 Member Function Documentation

6.26.2.1 getCountry()

```
String model.SearchModel.getCountry ()
```

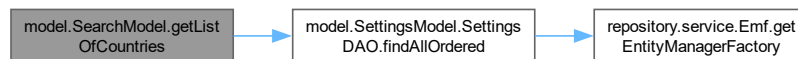
6.26.2.2 getListOfCountries()

```
List< Country > model.SearchModel.getListOfCountries ()
```

Returns the list of all available countries.

Returns

Here is the call graph for this function:



6.26.2.3 getSearchString()

```
String model.SearchModel.getSearchString ()
```

Builds the search string to be sent to the REST API

Returns

6.26.2.4 getUniversityName()

```
String model.SearchModel.getUniversityName ()
```

6.26.2.5 setCountry()

```
void model.SearchModel.setCountry (  
    String country)
```

6.26.2.6 setUniversityName()

```
void model.SearchModel.setUniversityName (  
    String universityName)
```

6.26.2.7 validate()

```
Boolean model.SearchModel.validate (  
    String name,  
    String country)
```

Validates name and country fields

Parameters

<i>name</i>	
<i>country</i>	

Returns

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

- **SearchModel.java**

6.27 controller.SettingsController Class Reference

Public Member Functions

- void **addCloseFormEventListener** (**ICustomEventListener** listener)
- **SettingsController** (**ISettingsView** view, **ISettingsModel** model)
- JPanel **getView** ()
- void **run** ()

6.27.1 Detailed Description

Controller part of the Settings MVC

6.27.2 Constructor & Destructor Documentation

6.27.2.1 SettingsController()

```
controller.SettingsController.SettingsController (
    ISettingsView view,
    ISettingsModel model)
```

Class Constructor. Maps event listeners and populates country's list

Parameters

<i>view</i>	
<i>model</i>	

6.27.3 Member Function Documentation

6.27.3.1 addCloseFormEventListener()

```
void controller.SettingsController.addCloseFormEventListener (
    ICustomEventListener listener)
```

Adds event listener to the close form event

Parameters

<i>listener</i>	
-----------------	--

Here is the call graph for this function:



6.27.3.2 getView()

```
JPanel controller.SettingsController.getView ()
```

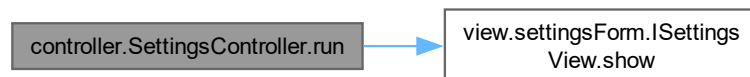
Returns the view's instance

Returns

6.27.3.3 run()

```
void controller.SettingsController.run ()
```

Here is the call graph for this function:

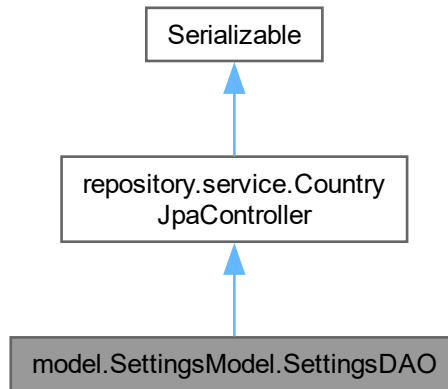


The documentation for this class was generated from the following file:

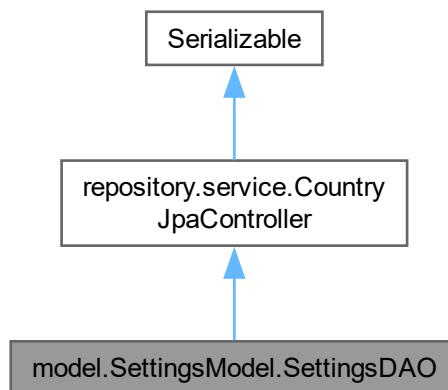
- **SettingsController.java**

6.28 model.SettingsModel.SettingsDAO Class Reference

Inheritance diagram for model.SettingsModel.SettingsDAO:



Collaboration diagram for model.SettingsModel.SettingsDAO:



Public Member Functions

- **SettingsDAO** (EntityManagerFactory emf)
- List< **Country** > **findAllOrdered** ()
- void **deleteAllEntries** ()

Public Member Functions inherited from repository.service.CountryJpaController

- **CountryJpaController** (EntityManagerFactory emf)
- EntityManager **getEntityManager** ()
- void **create** (**Country** country) throws **PreexistingEntityException**, Exception
- void **edit** (**Country** country) throws **NonexistentEntityException**, Exception
- void **destroy** (String id) throws **NonexistentEntityException**
- List< **Country** > **findCountryEntities** ()
- List< **Country** > **findCountryEntities** (int maxResults, int firstResult)
- **Country** **findCountry** (String id)

6.28.1 Detailed Description

DAO class to support the Settings Model Class

6.28.2 Constructor & Destructor Documentation

6.28.2.1 SettingsDAO()

```
model.SettingsModel.SettingsDAO.SettingsDAO (
    EntityManagerFactory emf)
```

Here is the call graph for this function:



6.28.3 Member Function Documentation

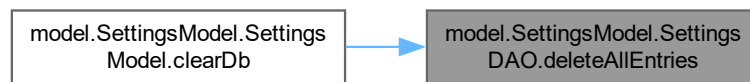
6.28.3.1 deleteAllEntries()

```
void model.SettingsModel.SettingsDAO.deleteAllEntries ()
```

Clears the database records. Leeaves intact the countries table fro future use Here is the call graph for this function:



Here is the caller graph for this function:



6.28.3.2 findAllOrdered()

```
List< Country > model.SettingsModel.SettingsDAO.findAllOrdered ()
```

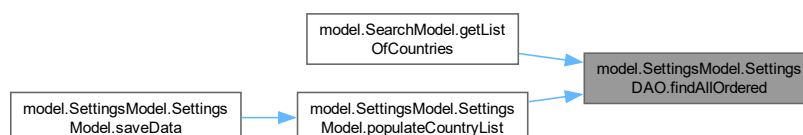
Returns a list with all the available countries

Returns

Here is the call graph for this function:



Here is the caller graph for this function:

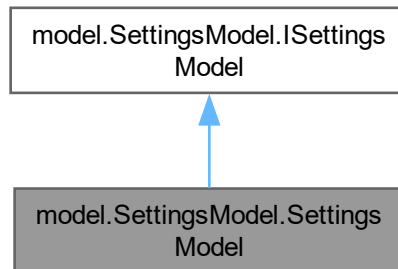


The documentation for this class was generated from the following file:

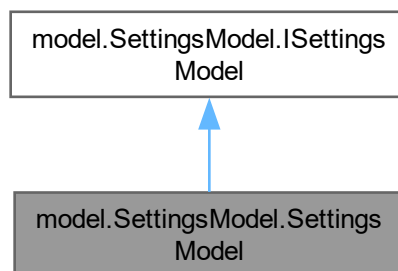
- **SettingsDAO.java**

6.29 model.SettingsModel.SettingsModel Class Reference

Inheritance diagram for model.SettingsModel.SettingsModel:



Collaboration diagram for model.SettingsModel.SettingsModel:



Public Member Functions

- **SettingsModel** ()
- void **populateCountryList** ()
- List< **Country** > **getCountries** ()
- **Country** **getCountry** (int index)
- void **saveData** () throws Exception
- void **deleteCountry** (int index)
- void **addCountry** (**Country** country)
- void **clearDb** () throws Exception
- void **addDataUpdatedEventListener** (**ICustomEventListener**< List< **Country** > listener)

Public Member Functions inherited from `model.SettingsModel.ISettingsModel`

6.29.1 Detailed Description

Model class part of the Settings MVC

6.29.2 Constructor & Destructor Documentation

6.29.2.1 `SettingsModel()`

```
model.SettingsModel.SettingsModel.SettingsModel ()
```

6.29.3 Member Function Documentation

6.29.3.1 `addCountry()`

```
void model.SettingsModel.SettingsModel.addCountry (
    Country country)
```

Adds a new country

Parameters

<i>country</i>	
----------------	--

Implements `model.SettingsModel.ISettingsModel` (p. 40).

Here is the call graph for this function:



6.29.3.2 `addDataUpdatedEventListener()`

```
void model.SettingsModel.SettingsModel.addDataUpdatedEventListener (
    ICustomEventListener< List< Country > > listener)
```

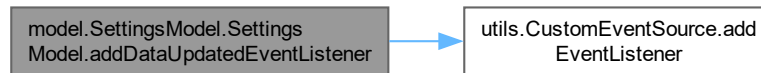
Helper method to add event listeners to the ListUpadated event

Parameters

<i>listener</i>	
-----------------	--

Implements **model.SettingsModel.ISettingsModel** (p. 40).

Here is the call graph for this function:



6.29.3.3 clearDb()

```
void model.SettingsModel.SettingsModel.clearDb () throws Exception
```

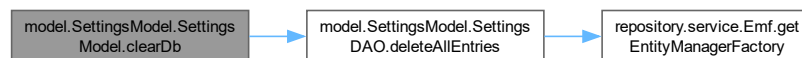
Cascade deletes all universities

Exceptions

<i>Exception</i>	
------------------	--

Implements **model.SettingsModel.ISettingsModel** (p. 40).

Here is the call graph for this function:



6.29.3.4 deleteCountry()

```
void model.SettingsModel.SettingsModel.deleteCountry (
    int index)
```

Deletes an existing country

Parameters

<i>index</i>	
--------------	--

Implements **model.SettingsModel.ISettingsModel** (p. 40).

Here is the call graph for this function:



6.29.3.5 `getCountries()`

```
List< Country > model.SettingsModel.SettingsModel.getCountries ()
```

Returns the private list of Countries

Returns

List<Country>

Implements **model.SettingsModel.ISettingsModel** (p. 41).

6.29.3.6 `getCountry()`

```
Country model.SettingsModel.SettingsModel.getCountry (
    int index)
```

Returns the Country Object of a country record

Parameters

<i>index</i>	
--------------	--

Returns

Country

Implements **model.SettingsModel.ISettingsModel** (p. 41).

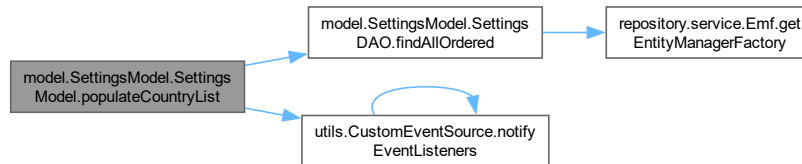
6.29.3.7 populateCountryList()

```
void model.SettingsModel.SettingsModel.populateCountryList ()
```

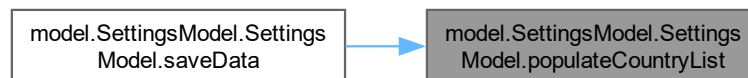
Populates a private list of Country type with all the available countries in the DB

Implements **model.SettingsModel.ISettingsModel** (p. 41).

Here is the call graph for this function:



Here is the caller graph for this function:



6.29.3.8 saveData()

```
void model.SettingsModel.SettingsModel.saveData () throws Exception
```

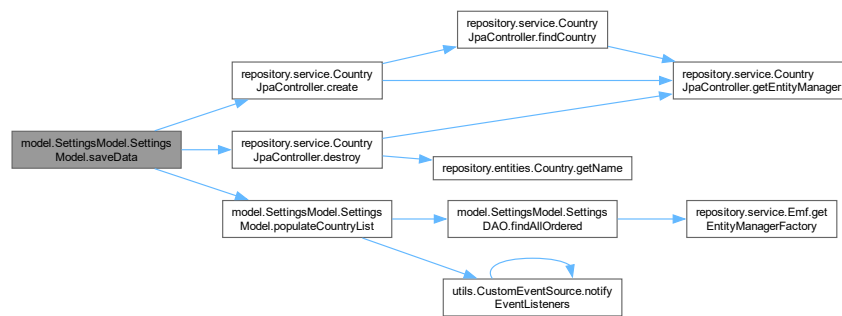
Inserts or Deletes any changes made on the Countries list to the Country DB table

Exceptions

<i>Exception</i>	
------------------	--

Implements **model.SettingsModel.ISettingsModel** (p. 41).

Here is the call graph for this function:

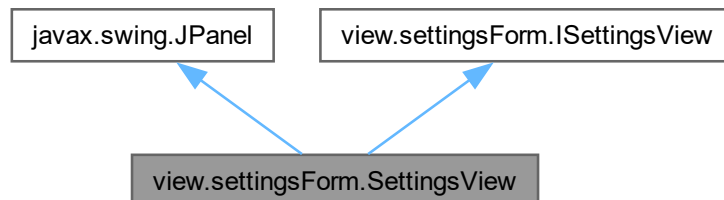


The documentation for this class was generated from the following file:

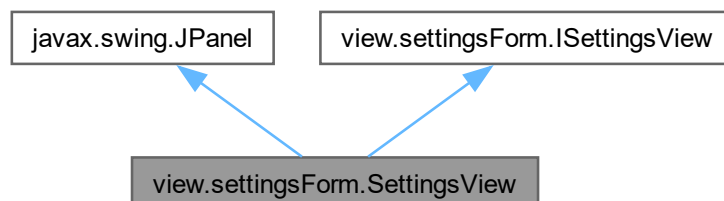
- **SettingsModel.java**

6.30 view.settingsForm.SettingsView Class Reference

Inheritance diagram for view.settingsForm.SettingsView:



Collaboration diagram for view.settingsForm.SettingsView:



Public Member Functions

- **SettingsView** ()
- void **addSaveEventListener** (ActionListener listener)
- void **addCloseEventListener** (ActionListener listener)
- void **addClearDbEventListener** (ActionListener listener)
- void **addDeleteEntryEventListener** (ActionListener listener)
- void **addAddEntryEventListener** (ActionListener listener)
- void **show** ()
- JPanel **getView** ()
- void **setClearDBbtnText** (String text)
- int **getSelectedRowIndex** ()
- String **getCountryTextBox** ()
- void **setCountryTextBox** (String countryName)
- void **updateGrid** (List< **Country** > data)

Public Member Functions inherited from view.settingsForm.ISettingsView

6.30.1 Constructor & Destructor Documentation

6.30.1.1 SettingsView()

```
view.settingsForm.SettingsView.SettingsView ()
```

6.30.2 Member Function Documentation

6.30.2.1 addAddEntryEventListener()

```
void view.settingsForm.SettingsView.addAddEntryEventListener (  
    ActionListener listener)
```

Implements **view.settingsForm.ISettingsView** (p. 42).

6.30.2.2 addClearDbEventListener()

```
void view.settingsForm.SettingsView.addClearDbEventListener (  
    ActionListener listener)
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.3 addCloseEventListener()

```
void view.settingsForm.SettingsView.addCloseEventListener (  
    ActionListener listener)
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.4 addDeleteEntryEventListener()

```
void view.settingsForm.SettingsView.addDeleteEntryEventListener (  
    ActionListener listener)
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.5 addSaveEventListener()

```
void view.settingsForm.SettingsView.addSaveEventListener (  
    ActionListener listener)
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.6 getCountryTextBox()

```
String view.settingsForm.SettingsView.getCountryTextBox ()
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.7 getSelectedRowIndex()

```
int view.settingsForm.SettingsView.getSelectedRowIndex ()
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.8 getView()

```
JPanel view.settingsForm.SettingsView.getView ()
```

Implements **view.settingsForm.ISettingsView** (p. 43).

6.30.2.9 setClearDBbtnText()

```
void view.settingsForm.SettingsView.setClearDBbtnText (  
    String text)
```

Implements **view.settingsForm.ISettingsView** (p. 44).

6.30.2.10 setCountryTextBox()

```
void view.settingsForm.SettingsView.setCountryTextBox (  
    String countryName)
```

Implements **view.settingsForm.ISettingsView** (p. 44).

6.30.2.11 show()

```
void view.settingsForm.SettingsView.show ()
```

Implements **view.settingsForm.ISettingsView** (p. 44).

6.30.2.12 updateGrid()

```
void view.settingsForm.SettingsView.updateGrid (  
    List< Country > data)
```

Implements **view.settingsForm.ISettingsView** (p. 44).

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

- **SettingsView.java**

6.31 controller.StatisticsController Class Reference

Public Member Functions

- void **addCloseFormEventListener** (**ICustomEventListener** listener)
- **StatisticsView** **getView** ()
- void **run** ()

6.31.1 Detailed Description

Controller part of the Statistics MVC

6.31.2 Member Function Documentation

6.31.2.1 addCloseFormEventListener()

```
void controller.StatisticsController.addCloseFormEventListener (  
    ICustomEventListener listener)
```

Here is the call graph for this function:



6.31.2.2 getView()

```
StatisticsView controller.StatisticsController.getView ()
```

6.31.2.3 run()

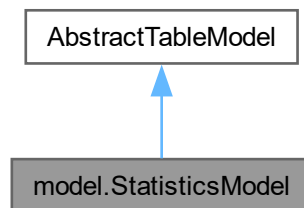
```
void controller.StatisticsController.run ()
```

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

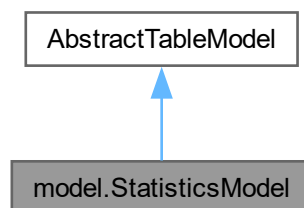
- **StatisticsController.java**

6.32 model.StatisticsModel Class Reference

Inheritance diagram for model.StatisticsModel:



Collaboration diagram for model.StatisticsModel:



Public Member Functions

- **StatisticsModel** ()
- List< **University** > **getUniversities** ()
- int **getRowCount** ()
- int **getColumnCount** ()
- Object **getValueAt** (int rowIndex, int columnIndex)
- String **getColumnName** (int column)

6.32.1 Detailed Description

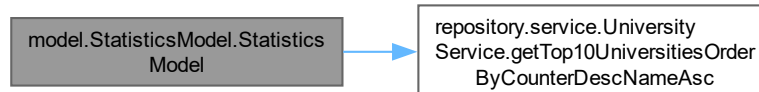
Model part of the Statistics MVC

6.32.2 Constructor & Destructor Documentation

6.32.2.1 StatisticsModel()

```
model.StatisticsModel.StatisticsModel ()
```

Here is the call graph for this function:



6.32.3 Member Function Documentation

6.32.3.1 getColumnCount()

```
int model.StatisticsModel.getColumnCount ()
```

6.32.3.2 getColumnName()

```
String model.StatisticsModel.getColumnName (  
    int column)
```

6.32.3.3 getRowCount()

```
int model.StatisticsModel.getRowCount ()
```

6.32.3.4 `getUniversities()`

```
List< University > model.StatisticsModel.getUniversities ()
```

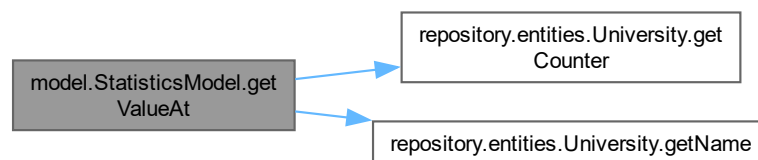
Returns the list holding the top 10 universities

Returns

6.32.3.5 `getValueAt()`

```
Object model.StatisticsModel.getValueAt (  
    int rowIndex,  
    int columnIndex)
```

Here is the call graph for this function:

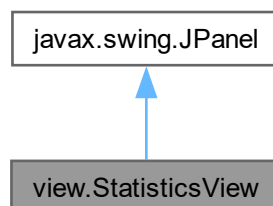


The documentation for this class was generated from the following file:

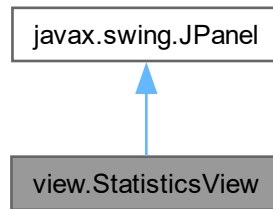
- **StatisticsModel.java**

6.33 view.StatisticsView Class Reference

Inheritance diagram for `view.StatisticsView`:



Collaboration diagram for view.StatisticsView:



Public Member Functions

- **StatisticsView** ()
- void **addCloseButtonListener** (ActionListener listener)
- void **addGraphEventListener** (ActionListener listener)
- void **setGridModel** (**StatisticsModel** model)
- void **showChart** (**StatisticsModel** model)

6.33.1 Constructor & Destructor Documentation

6.33.1.1 StatisticsView()

```
view.StatisticsView.StatisticsView ()
```

Creates new form **StatisticsView** (p. 86)

6.33.2 Member Function Documentation

6.33.2.1 addCloseButtonListener()

```
void view.StatisticsView.addCloseButtonListener (  
    ActionListener listener)
```

6.33.2.2 addGraphEventListener()

```
void view.StatisticsView.addGraphEventListener (  
    ActionListener listener)
```

6.33.2.3 setGridModel()

```
void view.StatisticsView.setGridModel (  
    StatisticsModel model)
```

6.33.2.4 showChart()

```
void view.StatisticsView.showChart (
    StatisticsModel model)
```

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

- **StatisticsView.java**

6.34 controller.UniGridController Class Reference

Public Member Functions

- void **addCloseFormEventListener** (**ICustomEventListener** listener)
- **UniGridController** (**UniGridView** view, **UniGridModel** model)
- **UniGridView** **getView** ()
- void **run** ()

6.34.1 Detailed Description

Controller part of the UniGrid MVC

6.34.2 Constructor & Destructor Documentation

6.34.2.1 UniGridController()

```
controller.UniGridController.UniGridController (
    UniGridView view,
    UniGridModel model)
```

6.34.3 Member Function Documentation

6.34.3.1 addCloseFormEventListener()

```
void controller.UniGridController.addCloseFormEventListener (
    ICustomEventListener listener)
```

Here is the call graph for this function:



6.34.3.2 getView()

```
UniGridView controller.UniGridController.getView ()
```

6.34.3.3 run()

```
void controller.UniGridController.run ()
```

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

- **UniGridController.java**

6.35 model.UniGridModel Class Reference

Public Member Functions

- void **addDataUpdatedEventListener** (ICustomEventListener< List< **WebData** > > listener)
- void **setData** (List< **WebData** > data)
- List< **WebData** > **getData** ()
- **UniGridModel** ()
- **UniGridModel** (List< **WebData** > data)

6.35.1 Detailed Description

Model part of the UniGrid MVC

6.35.2 Constructor & Destructor Documentation

6.35.2.1 UniGridModel() [1/2]

```
model.UniGridModel.UniGridModel ()
```

6.35.2.2 UniGridModel() [2/2]

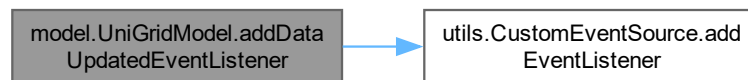
```
model.UniGridModel.UniGridModel (  
    List< WebData > data)
```

6.35.3 Member Function Documentation

6.35.3.1 addDataUpdatedEventListener()

```
void model.UniGridModel.addDataUpdatedEventListener (  
    ICustomEventListener< List< WebData > > listener)
```

Here is the call graph for this function:



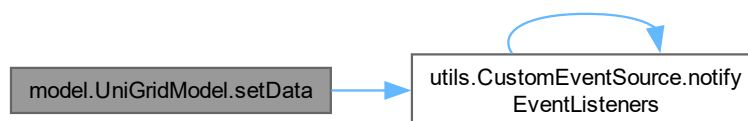
6.35.3.2 getData()

```
List< WebData > model.UniGridModel.getData ()
```

6.35.3.3 setData()

```
void model.UniGridModel.setData (  
    List< WebData > data)
```

Here is the call graph for this function:

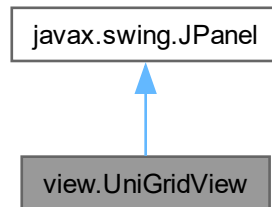


The documentation for this class was generated from the following file:

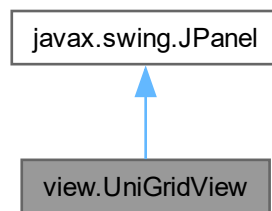
- **UniGridModel.java**

6.36 view.UniGridView Class Reference

Inheritance diagram for view.UniGridView:



Collaboration diagram for view.UniGridView:



Public Member Functions

- void **setEntriesCount** (Integer number)
- void **addSearchButtonListener** (ActionListener listener)
- void **addViewEditButtonListener** (ActionListener listener)
- void **addCloseButtonListener** (ActionListener listener)
- int **getSelecedRowIndex** ()
- **UniGridView** ()
- void **populateGrid** (List< **WebData** > universityList)

6.36.1 Constructor & Destructor Documentation

6.36.1.1 UniGridView()

```
view.UniGridView.UniGridView ()
```

Creates new form uniView Here is the call graph for this function:



6.36.2 Member Function Documentation

6.36.2.1 addCloseButtonListener()

```
void view.UniGridView.addCloseButtonListener (  
    ActionListener listener)
```

Public method for adding action listeners to the Search Button

Parameters

<i>listener</i>	
-----------------	--

6.36.2.2 addSearchButtonListener()

```
void view.UniGridView.addSearchButtonListener (  
    ActionListener listener)
```

Public method for adding action listeners to the Search Button

Parameters

<i>listener</i>	
-----------------	--

6.36.2.3 addViewEditButtonListener()

```
void view.UniGridView.addViewEditButtonListener (  
    ActionListener listener)
```

Public method for adding action listeners to the Search Button

Parameters

<i>listener</i>	
-----------------	--

6.36.2.4 getSelecedRowIndex()

```
int view.UniGridView.getSelecedRowIndex ()
```

Returns the grid's selected row's index

Returns

```
grid.getSelectedRow();
```

6.36.2.5 populateGrid()

```
void view.UniGridView.populateGrid (
    List< WebData > universityList)
```

Here is the caller graph for this function:

**6.36.2.6 setEntriesCount()**

```
void view.UniGridView.setEntriesCount (
    Integer number)
```

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

- **UniGridView.java**

6.37 model.uniRecModel.UniRecDAO Class Reference**Public Member Functions**

- **UniRecDAO** ()
- void **createUniversity** (**University** university) throws Exception
- void **updateUniversity** (**University** university)
- **University** **findUniversity** (String primaryKey)
- List< **School** > **findSchools** (String universityName)
- List< **Department** > **findDepartments** (int schoolId)
- void **updateInsert** (**University** university, Set< **School** > schools, Set< **Department** > departments)
- void **deleteSchoolsAndDepartments** (List< **School** > schools, List< **Department** > departments)

6.37.1 Detailed Description

DAO class to support the Unirec Model

6.37.2 Constructor & Destructor Documentation

6.37.2.1 UniRecDAO()

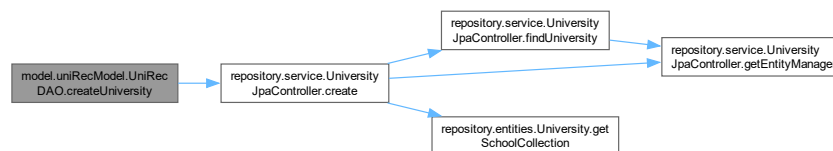
```
model.uniRecModel.UniRecDAO.UniRecDAO ()
```

6.37.3 Member Function Documentation

6.37.3.1 createUniversity()

```
void model.uniRecModel.UniRecDAO.createUniversity (
    University university) throws Exception
```

Here is the call graph for this function:



6.37.3.2 deleteSchoolsAndDepartments()

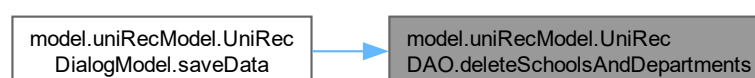
```
void model.uniRecModel.UniRecDAO.deleteSchoolsAndDepartments (
    List< School > schools,
    List< Department > departments)
```

Deletes schools and departments from the DB

Parameters

<i>schools</i>	
<i>departments</i>	

Here is the caller graph for this function:



6.37.3.3 findDepartments()

```
List< Department > model.uniRecModel.UniRecDAO.findDepartments (
    int schoolId)
```

Returns a list with all departments matching the school id

Parameters

<i>schoolId</i>	
-----------------	--

Returns**6.37.3.4 findSchools()**

```
List< School > model.uniRecModel.UniRecDAO.findSchools (
    String universityName)
```

Returns a list of all schools matching the university keyID

Parameters

<i>universityName</i>	
-----------------------	--

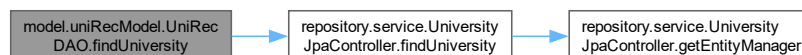
Returns

Here is the caller graph for this function:

**6.37.3.5 findUniversity()**

```
University model.uniRecModel.UniRecDAO.findUniversity (
    String primaryKey)
```

Here is the call graph for this function:



6.37.3.6 updateInsert()

```
void model.uniRecModel.UniRecDAO.updateInsert (
    University university,
    Set< School > schools,
    Set< Department > departments)
```

Updates University entity and inserts new schools and departments

Parameters

<i>university</i>	
<i>schools</i>	
<i>departments</i>	

Here is the call graph for this function:



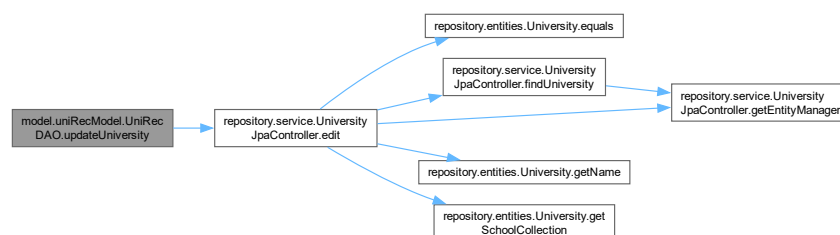
Here is the caller graph for this function:



6.37.3.7 updateUniversity()

```
void model.uniRecModel.UniRecDAO.updateUniversity (
    University university)
```

Here is the call graph for this function:



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

- **UniRecDAO.java**

6.38 controller.UniRecDialogController Class Reference

Public Member Functions

- **UniRecDialogController** (**UniRecDialogView** view, **UniRecDialogModel** model)
- void **run** ()

6.38.1 Detailed Description

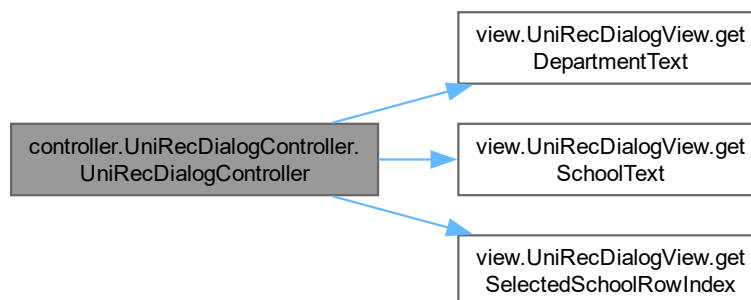
Controller part of the UniRec MVC

6.38.2 Constructor & Destructor Documentation

6.38.2.1 UniRecDialogController()

```
controller.UniRecDialogController.UniRecDialogController (
    UniRecDialogView view,
    UniRecDialogModel model)
```

Here is the call graph for this function:

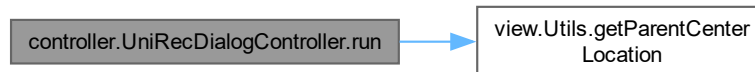


6.38.3 Member Function Documentation

6.38.3.1 run()

```
void controller.UniRecDialogController.run ()
```

Here is the call graph for this function:



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

- **UniRecDialogController.java**

6.39 model.uniRecModel.UniRecDialogModel Class Reference

Public Member Functions

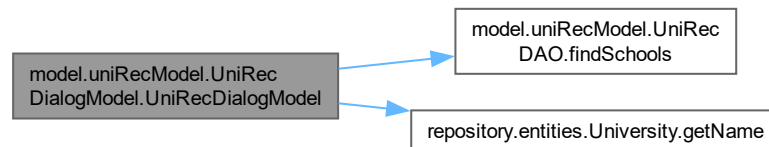
- void **upDateCurrentSchoolIndex** (int index)
- **UniRecDialogModel** (**WebData** webData)
- List< **Department** > **getDepartments** ()
- List< **School** > **getSchoolsList** ()
- void **addSchool** (**School** school)
- void **deleteSchool** (int rowIndex)
- void **addDepartment** (**Department** department)
- void **deleteDepartment** (int rowIndex)
- void **addDepartmentListUpdatedEventListener** (**ICustomEventListener**< List< **Department** > > listener)
- void **addSchoolListUpdatedEventListener** (**ICustomEventListener**< List< **School** > > listener)
- P.A.
- **University** **getUniversity** ()
- **WebData** **getWebData** ()
- List< String > **getDomains** ()
- List< String > **getWebPages** ()
- String **getDescription** ()
- void **setDescription** (String description)
- String **getInfo** ()
- void **setInfo** (String info)
- void **saveData** ()

6.39.1 Constructor & Destructor Documentation

6.39.1.1 UniRecDialogModel()

```
model.uniRecModel.UniRecDialogModel.UniRecDialogModel (  
    WebData webData)
```

Here is the call graph for this function:



6.39.2 Member Function Documentation

6.39.2.1 addDepartment()

```
void model.uniRecModel.UniRecDialogModel.addDepartment (  
    Department department)
```

6.39.2.2 addDepartmentListUpdatedEventListener()

```
void model.uniRecModel.UniRecDialogModel.addDepartmentListUpdatedEventListener (  
    ICustomEventListener< List< Department > > listener)
```

Here is the call graph for this function:



6.39.2.3 addSchool()

```
void model.uniRecModel.UniRecDialogModel.addSchool (  
    School school)
```

Here is the call graph for this function:



6.39.2.4 addSchoolListUpdatedEventListener()

```
void model.uniRecModel.UniRecDialogModel.addSchoolListUpdatedEventListener (  
    ICustomEventListener< List< School > > listener)
```

—P.A.

Here is the call graph for this function:



6.39.2.5 deleteDepartment()

```
void model.uniRecModel.UniRecDialogModel.deleteDepartment (  
    int rowIndex)
```

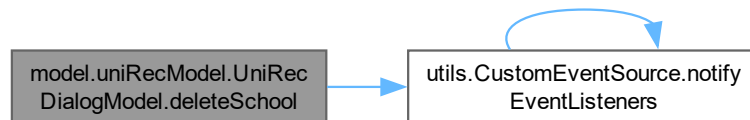
Here is the call graph for this function:



6.39.2.6 deleteSchool()

```
void model.uniRecModel.UniRecDialogModel.deleteSchool (  
    int rowIndex)
```

Here is the call graph for this function:



6.39.2.7 getDepartments()

```
List< Department > model.uniRecModel.UniRecDialogModel.getDepartments ()
```

Returns the current Department list

Returns

current Department list

6.39.2.8 getDescription()

```
String model.uniRecModel.UniRecDialogModel.getDescription ()
```

6.39.2.9 getDomains()

```
List< String > model.uniRecModel.UniRecDialogModel.getDomains ()
```

Here is the call graph for this function:



6.39.2.10 getInfo()

```
String model.uniRecModel.UniRecDialogModel.getInfo ()
```

6.39.2.11 getSchoolsList()

```
List< School > model.uniRecModel.UniRecDialogModel.getSchoolsList ()
```

6.39.2.12 getUniversity()

```
University model.uniRecModel.UniRecDialogModel.getUniversity ()
```

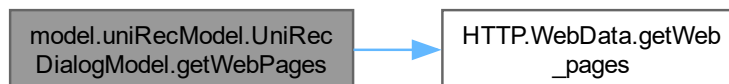
6.39.2.13 getWebData()

```
WebData model.uniRecModel.UniRecDialogModel.getWebData ()
```

6.39.2.14 getWebPages()

```
List< String > model.uniRecModel.UniRecDialogModel.getWebPages ()
```

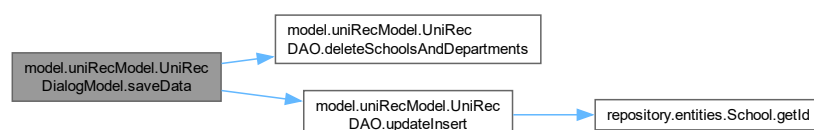
Here is the call graph for this function:



6.39.2.15 saveData()

```
void model.uniRecModel.UniRecDialogModel.saveData ()
```

Here is the call graph for this function:



6.39.2.16 setDescription()

```
void model.uniRecModel.UniRecDialogModel.setDescription (  
    String description)
```

6.39.2.17 setInfo()

```
void model.uniRecModel.UniRecDialogModel.setInfo (  
    String info)
```

6.39.2.18 upDateCurrentSchoolIndex()

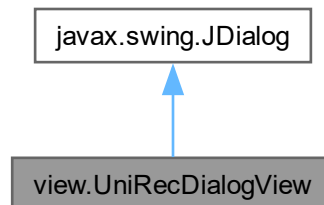
```
void model.uniRecModel.UniRecDialogModel.upDateCurrentSchoolIndex (  
    int index)
```

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

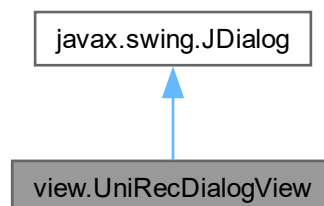
- **UniRecDialogModel.java**

6.40 view.UniRecDialogView Class Reference

Inheritance diagram for view.UniRecDialogView:



Collaboration diagram for view.UniRecDialogView:



Public Member Functions

- void **addcurrentSchoolEventSourceEventListener** (**ICustomEventListener**< Integer > listener)
- void **addcurrentDepartmentEventSourceEventListener** (**ICustomEventListener**< Integer > listener)
- int **getSelectedSchoolRowIndex** ()
- int **getSelectedDepartmentRowIndex** ()
- **UniRecDialogView** (java.awt.Frame parent, boolean modal)
- void **addExitButtonListener** (ActionListener listener)
- void **setUniversityData** (**WebData** universityData)
- void **populateDomainsGrid** (List< String > domains)
- void **populateWebPagesGrid** (List< String > webPages)
- void **setDescriptionField** (String description)
- void **setInfoField** (String info)
- void **populateSchoolsGrid** (List< **School** > list)
- void **populateDepartmentGrid** (List< **Department** > list)
- String **getSelectedSchool** ()
- void **addDeleteSchoolButtonListener** (ActionListener listener)
- String **getDescriptionText** ()
- String **getInfoText** ()
- void **addSaveButtonListener** (ActionListener listener)
- String **getSchoolText** ()
- String **getDepartmentText** ()
- void **setSchoolTextField** (String text)
- void **setDepartmentTextField** (String text)
- void **addInsertSchoolButtonListener** (ActionListener listener)
- void **addInsertDepartmentButtonListener** (ActionListener listener)
- void **addDeleteDepartmentButtonListener** (ActionListener listener)

Static Public Member Functions

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

6.40.1 Constructor & Destructor Documentation

6.40.1.1 UniRecDialogView()

```
view.UniRecDialogView.UniRecDialogView (
    java.awt.Frame parent,
    boolean modal)
```

Creates new form uniRec

Parameters

<i>parent</i>	
<i>modal</i>	

6.40.2 Member Function Documentation

6.40.2.1 addcurrentDepartmentEventSourceEventListener()

```
void view.UniRecDialogView.addcurrentDepartmentEventSourceEventListener (  
    ICustomEventListener< Integer > listener)
```

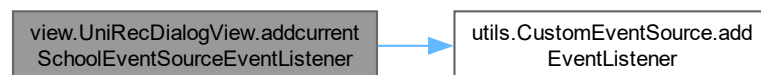
Here is the call graph for this function:



6.40.2.2 addcurrentSchoolEventSourceEventListener()

```
void view.UniRecDialogView.addcurrentSchoolEventSourceEventListener (  
    ICustomEventListener< Integer > listener)
```

Here is the call graph for this function:



6.40.2.3 addDeleteDepartmentButtonListener()

```
void view.UniRecDialogView.addDeleteDepartmentButtonListener (  
    ActionListener listener)
```

6.40.2.4 addDeleteSchoolButtonListener()

```
void view.UniRecDialogView.addDeleteSchoolButtonListener (  
    ActionListener listener)
```

6.40.2.5 addExitButtonListener()

```
void view.UniRecDialogView.addExitButtonListener (  
    ActionListener listener)
```

6.40.2.6 addInsertDepartmentButtonListener()

```
void view.UniRecDialogView.addInsertDepartmentButtonListener (  
    ActionListener listener)
```

6.40.2.7 addInsertSchoolButtonListener()

```
void view.UniRecDialogView.addInsertSchoolButtonListener (  
    ActionListener listener)
```

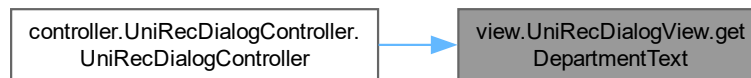
6.40.2.8 addSaveButtonListener()

```
void view.UniRecDialogView.addSaveButtonListener (  
    ActionListener listener)
```

6.40.2.9 getDepartmentText()

```
String view.UniRecDialogView.getDepartmentText ()
```

Here is the caller graph for this function:



6.40.2.10 getDescriptionText()

```
String view.UniRecDialogView.getDescriptionText ()
```

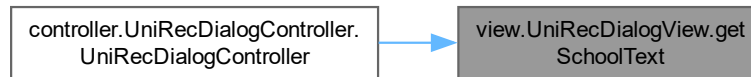
6.40.2.11 getInfoText()

```
String view.UniRecDialogView.getInfoText ()
```

6.40.2.12 getSchoolText()

```
String view.UniRecDialogView.getSchoolText ()
```

Here is the caller graph for this function:



6.40.2.13 getSelectedDepartmentRowIndex()

```
int view.UniRecDialogView.getSelectedDepartmentRowIndex ()
```

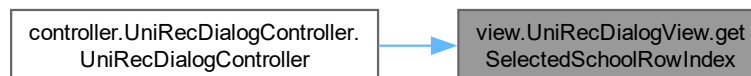
6.40.2.14 getSelectedSchool()

```
String view.UniRecDialogView.getSelectedSchool ()
```

6.40.2.15 getSelectedSchoolRowIndex()

```
int view.UniRecDialogView.getSelectedSchoolRowIndex ()
```

Here is the caller graph for this function:



6.40.2.16 main()

```
static void view.UniRecDialogView.main (  
    String args[]) [static]
```

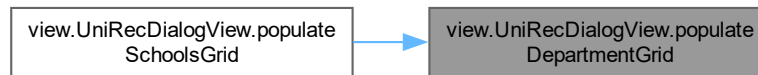
Parameters

<i>args</i>	the command line arguments
-------------	----------------------------

6.40.2.17 populateDepartmentGrid()

```
void view.UniRecDialogView.populateDepartmentGrid (  
    List< Department > list)
```

Here is the caller graph for this function:



6.40.2.18 populateDomainsGrid()

```
void view.UniRecDialogView.populateDomainsGrid (  
    List< String > domains)
```

6.40.2.19 populateSchoolsGrid()

```
void view.UniRecDialogView.populateSchoolsGrid (  
    List< School > list)
```

Here is the call graph for this function:



6.40.2.20 populateWebPagesGrid()

```
void view.UniRecDialogView.populateWebPagesGrid (  
    List< String > webPages)
```

6.40.2.21 setDepartmentTextField()

```
void view.UniRecDialogView.setDepartmentTextField (  
    String text)
```

6.40.2.22 setDescriptionField()

```
void view.UniRecDialogView.setDescriptionField (  
    String description)
```

6.40.2.23 setInfoField()

```
void view.UniRecDialogView.setInfoField (  
    String info)
```

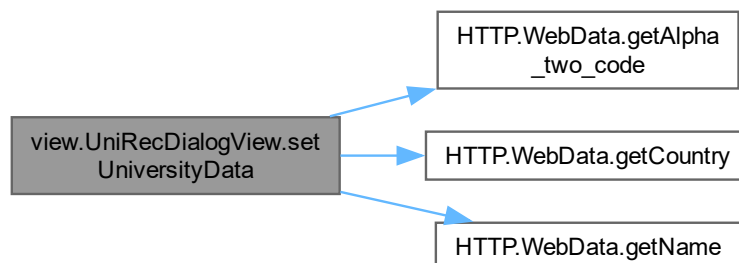
6.40.2.24 setSchoolTextField()

```
void view.UniRecDialogView.setSchoolTextField (  
    String text)
```

6.40.2.25 setUniversityData()

```
void view.UniRecDialogView.setUniversityData (  
    WebData universityData)
```

Here is the call graph for this function:

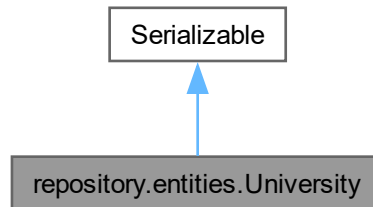


The documentation for this class was generated from the following file:

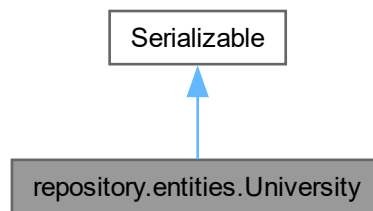
- **UniRecDialogView.java**

6.41 repository.entities.University Class Reference

Inheritance diagram for repository.entities.University:



Collaboration diagram for repository.entities.University:



Public Member Functions

- **University** ()
- **University** (String name)
- String **getName** ()
- void **setName** (String name)
- Integer **getCounter** ()
- void **setCounter** (Integer counter)
- String **getDescription** ()
- void **setDescription** (String description)
- String **getInfo** ()
- void **setInfo** (String info)
- Collection< **School** > **getSchoolCollection** ()
- void **setSchoolCollection** (Collection< **School** > schoolCollection)
- int **hashCode** ()
- boolean **equals** (Object object)
- String **toString** ()

6.41.1 Constructor & Destructor Documentation

6.41.1.1 University() [1/2]

```
repository.entities.University.University ()
```

6.41.1.2 University() [2/2]

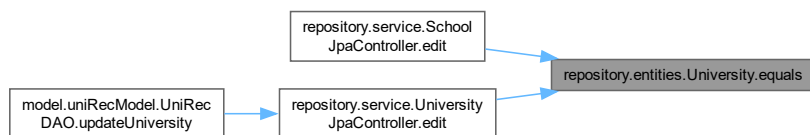
```
repository.entities.University.University (  
    String name)
```

6.41.2 Member Function Documentation

6.41.2.1 equals()

```
boolean repository.entities.University.equals (  
    Object object)
```

Here is the caller graph for this function:



6.41.2.2 getCounter()

```
Integer repository.entities.University.getCounter ()
```

Here is the caller graph for this function:



6.41.2.3 getDescription()

```
String repository.entities.University.getDescription ()
```

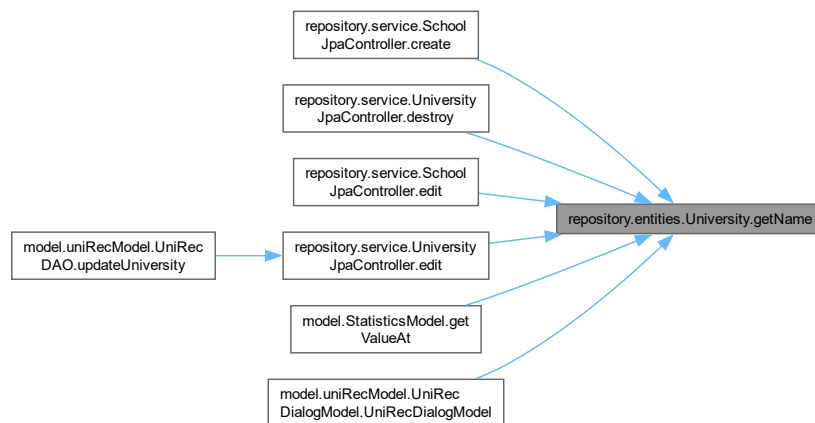
6.41.2.4 getInfo()

```
String repository.entities.University.getInfo ()
```

6.41.2.5 getName()

```
String repository.entities.University.getName ()
```

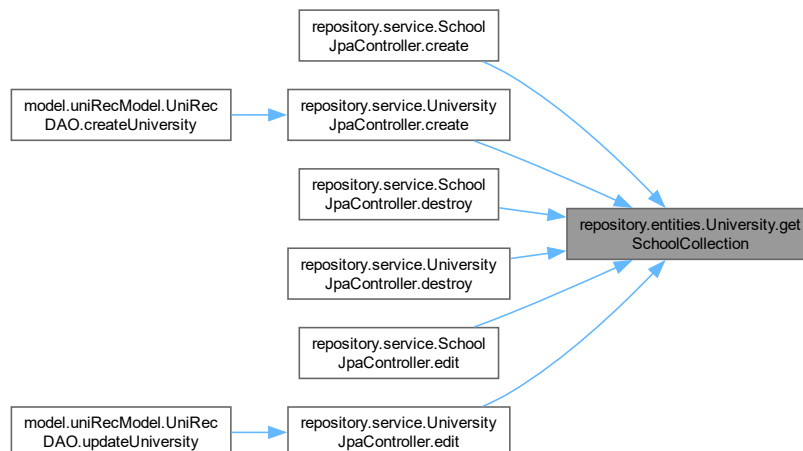
Here is the caller graph for this function:



6.41.2.6 getSchoolCollection()

```
Collection< School > repository.entities.University.getSchoolCollection ()
```

Here is the caller graph for this function:



6.41.2.7 hashCode()

```
int repository.entities.University.hashCode ()
```

6.41.2.8 setCounter()

```
void repository.entities.University.setCounter (  
    Integer counter)
```

6.41.2.9 setDescription()

```
void repository.entities.University.setDescription (  
    String description)
```

6.41.2.10 setInfo()

```
void repository.entities.University.setInfo (  
    String info)
```

6.41.2.11 setName()

```
void repository.entities.University.setName (  
    String name)
```

6.41.2.12 setSchoolCollection()

```
void repository.entities.University.setSchoolCollection (  
    Collection< School > schoolCollection)
```

6.41.2.13 toString()

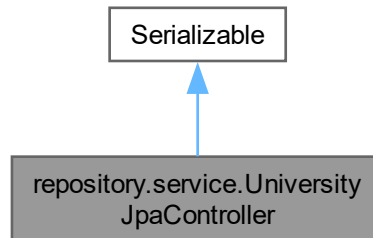
```
String repository.entities.University.toString ()
```

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

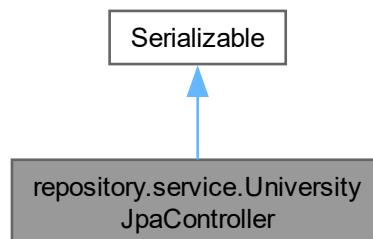
- **University.java**

6.42 repository.service.UniversityJpaController Class Reference

Inheritance diagram for repository.service.UniversityJpaController:



Collaboration diagram for repository.service.UniversityJpaController:



Public Member Functions

- **UniversityJpaController** (EntityManagerFactory emf)
- EntityManager **getEntityManager** ()
- void **create** (**University** university) throws **PreexistingEntityException**, Exception
- void **edit** (**University** university) throws **IllegalOrphanException**, **NonexistentEntityException**, Exception
- void **destroy** (String id) throws **IllegalOrphanException**, **NonexistentEntityException**
- List< **University** > **findUniversityEntities** ()
- List< **University** > **findUniversityEntities** (int maxResults, int firstResult)
- **University** **findUniversity** (String id)
- int **getUniversityCount** ()

6.42.1 Constructor & Destructor Documentation

6.42.1.1 UniversityJpaController()

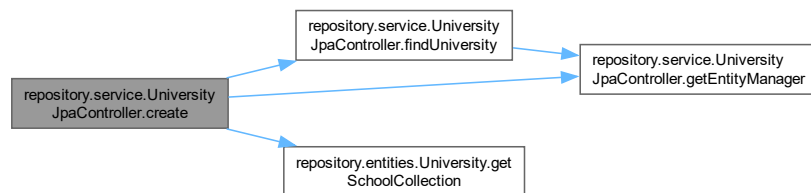
```
repository.service.UniversityJpaController.UniversityJpaController (  
    EntityManagerFactory emf)
```

6.42.2 Member Function Documentation

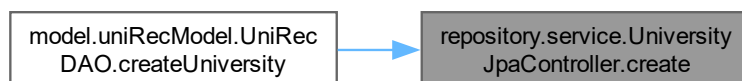
6.42.2.1 create()

```
void repository.service.UniversityJpaController.create (  
    University university) throws PreexistingEntityException, Exception
```

Here is the call graph for this function:



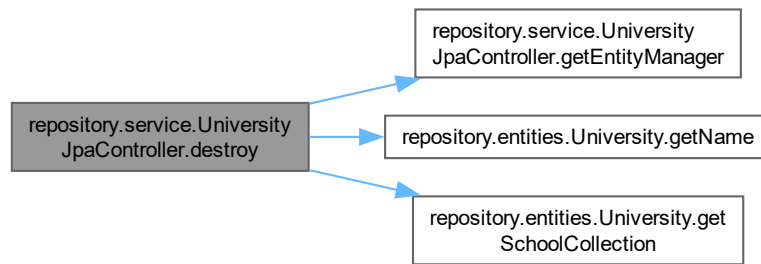
Here is the caller graph for this function:



6.42.2.2 destroy()

```
void repository.service.UniversityJpaController.destroy (  
    String id) throws IllegalOrphanException, NonexistentEntityException
```

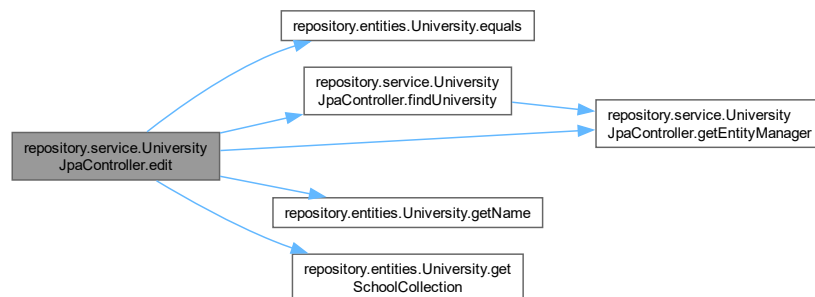
Here is the call graph for this function:



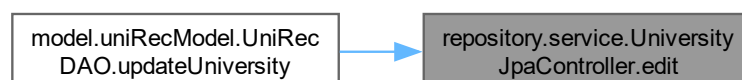
6.42.2.3 edit()

```
void repository.service.UniversityJpaController.edit (
    University university) throws IllegalOrphanException, NonexistentEntity←
Exception, Exception
```

Here is the call graph for this function:



Here is the caller graph for this function:



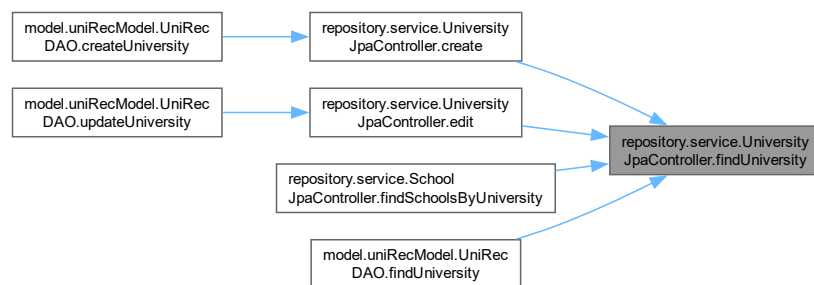
6.42.2.4 findUniversity()

```
University repository.service.UniversityJpaController.findUniversity (
    String id)
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.42.2.5 findUniversityEntities() [1/2]

```
List< University > repository.service.UniversityJpaController.findUniversityEntities ()
```

Here is the call graph for this function:



Here is the caller graph for this function:



6.42.2.6 findUniversityEntities() [2/2]

```
List< University > repository.service.UniversityJpaController.findUniversityEntities (
    int maxResults,
    int firstResult)
```

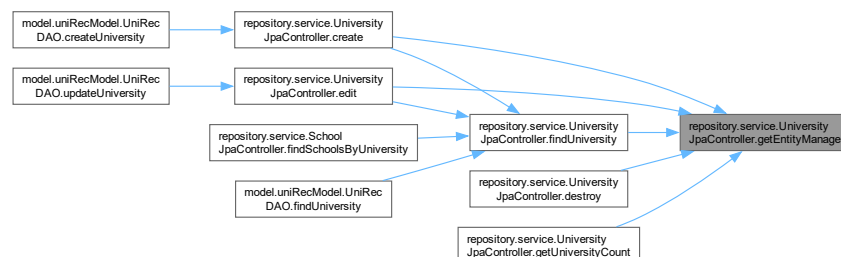
Here is the call graph for this function:



6.42.2.7 getEntityManager()

```
EntityManager repository.service.UniversityJpaController.getEntityManager ()
```

Here is the caller graph for this function:



6.42.2.8 getUniversityCount()

```
int repository.service.UniversityJpaController.getUniversityCount ()
```

Here is the call graph for this function:



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

- **UniversityJpaController.java**

6.43 repository.service.UniversityService Class Reference

Public Member Functions

- **List< University > getTop10UniversitiesOrderByCounterDescNameAsc ()**

6.43.1 Member Function Documentation

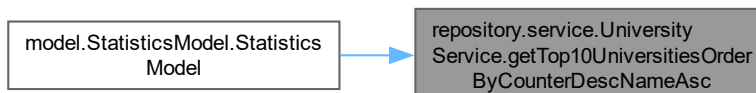
6.43.1.1 getTop10UniversitiesOrderByCounterDescNameAsc()

```
List< University > repository.service.UniversityService.getTop10UniversitiesOrderByCounter↵  
DescNameAsc ()
```

Return the top most viewed universities

Returns

Here is the caller graph for this function:



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

- **UniversityService.java**

6.44 view.Utills Class Reference

Classes

- class **CustomComboBoxRenderer**

Static Public Member Functions

- static void **customizeButton** (JButton button, Color defaultColor, Color hoverColor)
- static Point **getParentCenterLocation** (Component parent, Component child)
- static void **customizeButtonsInsidePanel** (JPanel panel)
- static CategoryDataset **createDataset** (List< **University** > universities)
- static JFreeChart **createChart** (CategoryDataset dataset)
- static void **showChart** (List< **University** > universities)

6.44.1 Member Function Documentation

6.44.1.1 createChart()

```
static JFreeChart view.Utills.createChart (  
    CategoryDataset dataset) [static]
```

Here is the caller graph for this function:



6.44.1.2 createDataset()

```
static CategoryDataset view.Utills.createDataset (  
    List< University > universities) [static]
```

Here is the caller graph for this function:



6.44.1.3 customizeButton()

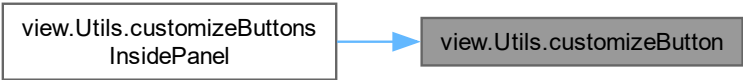
```
static void view.Utills.customizeButton (  
    JButton button,  
    Color defaultColor,  
    Color hoverColor) [static]
```

Customize bgcolor of a JButton on mouse hover

Parameters

<i>button</i>	
<i>defaultColor</i>	
<i>hoverColor</i>	

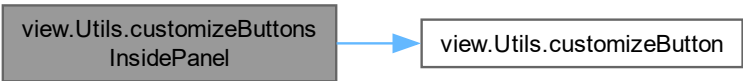
Here is the caller graph for this function:



6.44.1.4 customizeButtonsInsidePanel()

```
static void view.Utills.customizeButtonsInsidePanel (  
    JPanel panel) [static]
```

Here is the call graph for this function:



6.44.1.5 getParentCenterLocation()

```
static Point view.Utills.getParentCenterLocation (  
    Component parent,  
    Component child) [static]
```

Centers

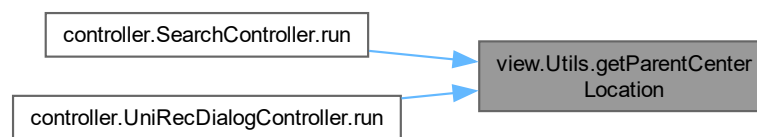
Parameters

<i>parent</i>	Parent component
<i>child</i>	: Child component

Returns

Point

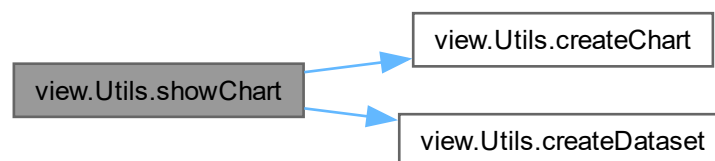
Here is the caller graph for this function:



6.44.1.6 showChart()

```
static void view.Utills.showChart (  
    List< University > universities) [static]
```

Here is the call graph for this function:



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

- **Utils.java**

6.45 HTTP.WebData Class Reference

Public Member Functions

- String **getName** ()
- void **setName** (String name)
- String **getCountry** ()
- void **setCountry** (String country)
- String **getState_province** ()
- void **setState_province** (String state_province)
- String **getAlpha_two_code** ()
- void **setAlpha_two_code** (String alpha_two_code)
- List< String > **getWeb_pages** ()
- void **setWeb_pages** (List< String > web_pages)
- List< String > **getDomains** ()
- void **setDomains** (List< String > domains)
- String **toString** ()

6.45.1 Member Function Documentation

6.45.1.1 getAlpha_two_code()

```
String HTTP.WebData.getAlpha_two_code ()
```

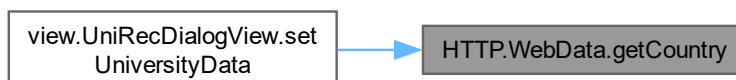
Here is the caller graph for this function:



6.45.1.2 getCountry()

```
String HTTP.WebData.getCountry ()
```

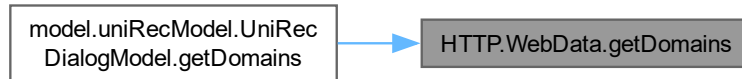
Here is the caller graph for this function:



6.45.1.3 getDomains()

```
List< String > HTTP.WebData.getDomains ()
```

Here is the caller graph for this function:



6.45.1.4 getName()

```
String HTTP.WebData.getName ()
```

Here is the caller graph for this function:



6.45.1.5 getState_province()

```
String HTTP.WebData.getState_province ()
```

6.45.1.6 getWeb_pages()

```
List< String > HTTP.WebData.getWeb_pages ()
```

Here is the caller graph for this function:



6.45.1.7 setAlpha_two_code()

```
void HTTP.WebData.setAlpha_two_code (  
    String alpha_two_code)
```

6.45.1.8 setCountry()

```
void HTTP.WebData.setCountry (  
    String country)
```

6.45.1.9 setDomains()

```
void HTTP.WebData.setDomains (  
    List< String > domains)
```

6.45.1.10 setName()

```
void HTTP.WebData.setName (  
    String name)
```

6.45.1.11 setState_province()

```
void HTTP.WebData.setState_province (  
    String state_province)
```

6.45.1.12 setWeb_pages()

```
void HTTP.WebData.setWeb_pages (  
    List< String > web_pages)
```

6.45.1.13 toString()

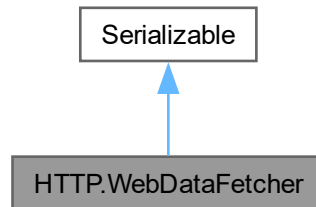
```
String HTTP.WebData.toString ()
```

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

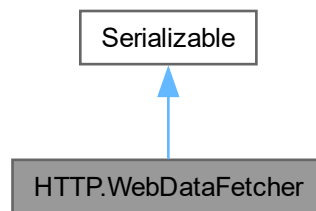
- **WebData.java**

6.46 HTTP.WebDataFetcher Class Reference

Inheritance diagram for HTTP.WebDataFetcher:



Collaboration diagram for HTTP.WebDataFetcher:



Public Member Functions

- `List< WebData > fetchUniversities (String searchString) throws IOException`

6.46.1 Member Function Documentation

6.46.1.1 fetchUniversities()

```
List< WebData > HTTP.WebDataFetcher.fetchUniversities (  
    String searchString) throws IOException
```

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

- `WebDataFetcher.java`

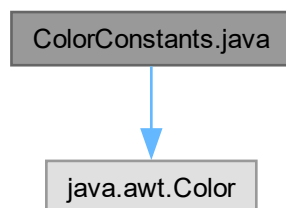
Chapter 7

File Documentation

7.1 ColorConstants.java File Reference

```
import java.awt.Color;
```

Include dependency graph for ColorConstants.java:



Classes

- class **constants.ColorConstants**

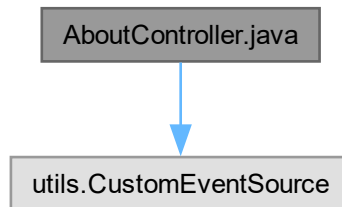
Packages

- package **constants**

7.2 AboutController.java File Reference

```
import utils.CustomEventSource;
```

Include dependency graph for AboutController.java:



Classes

- class **controller.AboutController**

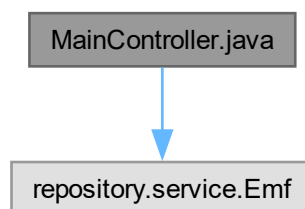
Packages

- package **controller**

7.3 MainController.java File Reference

```
import repository.service.Emf;
```

Include dependency graph for MainController.java:



Classes

- class **controller.MainController**

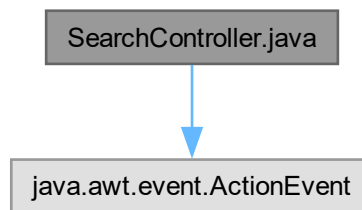
Packages

- package **controller**

7.4 SearchController.java File Reference

```
import java.awt.event.ActionEvent;
```

Include dependency graph for SearchController.java:

**Classes**

- class **controller.SearchController**

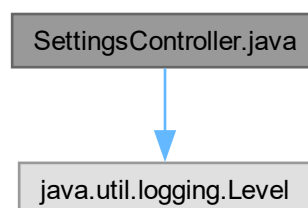
Packages

- package **controller**

7.5 SettingsController.java File Reference

```
import java.util.logging.Level;
```

Include dependency graph for SettingsController.java:



Classes

- class **controller.SettingsController**

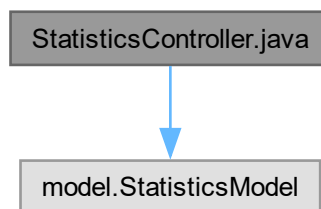
Packages

- package **controller**

7.6 StatisticsController.java File Reference

```
import model.StatisticsModel;
```

Include dependency graph for StatisticsController.java:

**Classes**

- class **controller.StatisticsController**

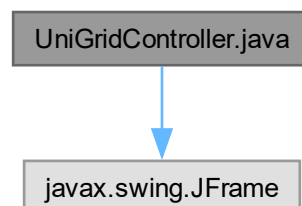
Packages

- package **controller**

7.7 UniGridController.java File Reference

```
import javax.swing.JFrame;
```

Include dependency graph for UniGridController.java:



Classes

- class **controller.UniGridController**

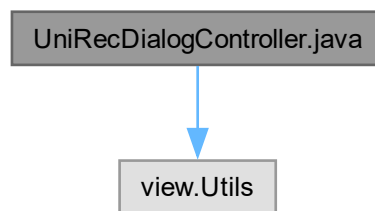
Packages

- package **controller**

7.8 UniRecDialogController.java File Reference

```
import view.Utills;
```

Include dependency graph for UniRecDialogController.java:

**Classes**

- class **controller.UniRecDialogController**

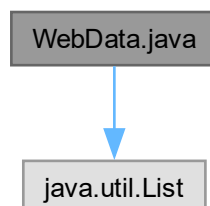
Packages

- package **controller**

7.9 WebData.java File Reference

```
import java.util.List;
```

Include dependency graph for WebData.java:



Classes

- class `HTTP.WebData`

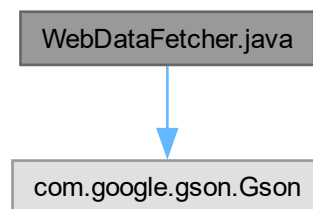
Packages

- package `HTTP`

7.10 WebDataFetcher.java File Reference

```
import com.google.gson.Gson;
```

Include dependency graph for WebDataFetcher.java:

**Classes**

- class `HTTP.WebDataFetcher`

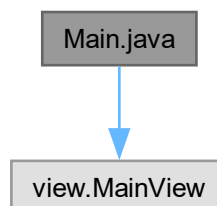
Packages

- package `HTTP`

7.11 Main.java File Reference

```
import view.MainView;
```

Include dependency graph for Main.java:



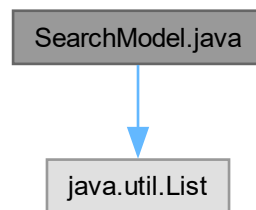
Classes

- class **Main**

7.12 SearchModel.java File Reference

```
import java.util.List;
```

Include dependency graph for SearchModel.java:

**Classes**

- class **model.SearchModel**

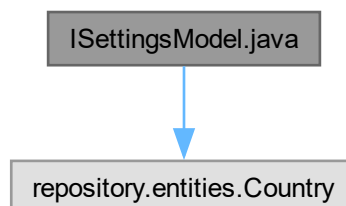
Packages

- package **model**

7.13 ISettingsModel.java File Reference

```
import repository.entities.Country;
```

Include dependency graph for ISettingsModel.java:



Classes

- interface `model.SettingsModel.ISettingsModel`

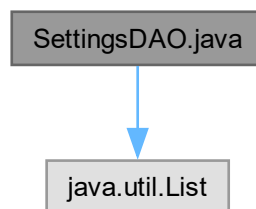
Packages

- package `model.SettingsModel`

7.14 SettingsDAO.java File Reference

```
import java.util.List;
```

Include dependency graph for SettingsDAO.java:



Classes

- class `model.SettingsModel.SettingsDAO`

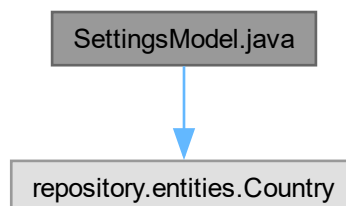
Packages

- package `model.SettingsModel`

7.15 SettingsModel.java File Reference

```
import repository.entities.Country;
```

Include dependency graph for SettingsModel.java:



Classes

- class `model.SettingsModel.SettingsModel`

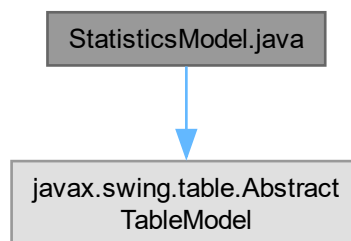
Packages

- package `model.SettingsModel`

7.16 StatisticsModel.java File Reference

```
import javax.swing.table.AbstractTableModel;
```

Include dependency graph for StatisticsModel.java:

**Classes**

- class `model.StatisticsModel`

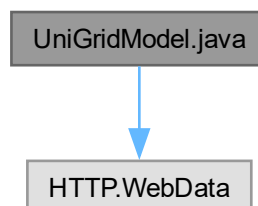
Packages

- package `model`

7.17 UniGridModel.java File Reference

```
import HTTP.WebData;
```

Include dependency graph for UniGridModel.java:



Classes

- class `model.UniGridModel`

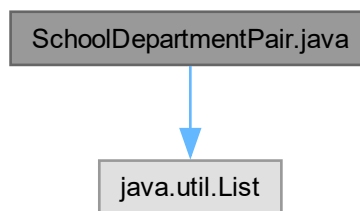
Packages

- package `model`

7.18 SchoolDepartmentPair.java File Reference

```
import java.util.List;
```

Include dependency graph for SchoolDepartmentPair.java:

**Classes**

- class `model.uniRecModel.SchoolDepartmentPair`

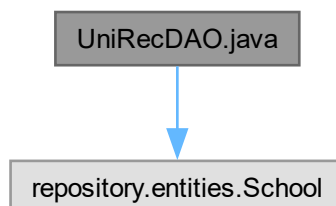
Packages

- package `model.uniRecModel`

7.19 UniRecDAO.java File Reference

```
import repository.entities.School;
```

Include dependency graph for UniRecDAO.java:



Classes

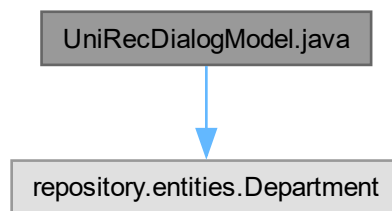
- class `model.uniRecModel.UniRecDAO`

Packages

- package `model.uniRecModel`

7.20 UniRecDialogModel.java File Reference

```
import repository.entities.Department;  
Include dependency graph for UniRecDialogModel.java:
```

**Classes**

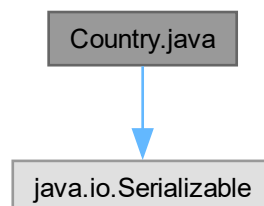
- class `model.uniRecModel.UniRecDialogModel`

Packages

- package `model.uniRecModel`

7.21 Country.java File Reference

```
import java.io.Serializable;  
Include dependency graph for Country.java:
```



Classes

- class `repository.entities.Country`

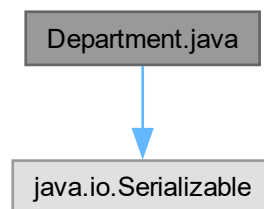
Packages

- package `repository.entities`

7.22 Department.java File Reference

```
import java.io.Serializable;
```

Include dependency graph for Department.java:

**Classes**

- class `repository.entities.Department`

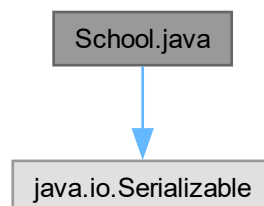
Packages

- package `repository.entities`

7.23 School.java File Reference

```
import java.io.Serializable;
```

Include dependency graph for School.java:



Classes

- class `repository.entities.School`

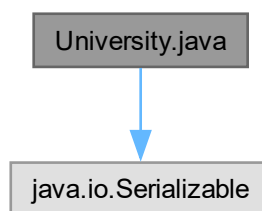
Packages

- package `repository.entities`

7.24 University.java File Reference

```
import java.io.Serializable;
```

Include dependency graph for University.java:

**Classes**

- class `repository.entities.University`

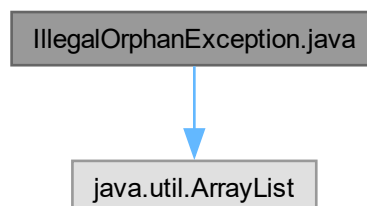
Packages

- package `repository.entities`

7.25 IllegalOrphanException.java File Reference

```
import java.util.ArrayList;
```

Include dependency graph for IllegalOrphanException.java:



Classes

- class `repository.exceptions.IllegalOrphanException`

Packages

- package `repository.exceptions`

7.26 NonexistentEntityException.java File Reference

Classes

- class `repository.exceptions.NonexistentEntityException`

Packages

- package `repository.exceptions`

7.27 PreexistingEntityException.java File Reference

Classes

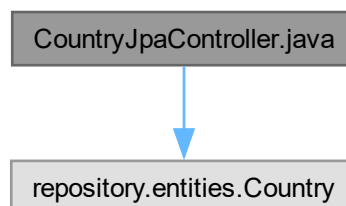
- class `repository.exceptions.PreexistingEntityException`

Packages

- package `repository.exceptions`

7.28 CountryJpaController.java File Reference

```
import repository.entities.Country;  
Include dependency graph for CountryJpaController.java:
```



Classes

- class `repository.service.CountryJpaController`

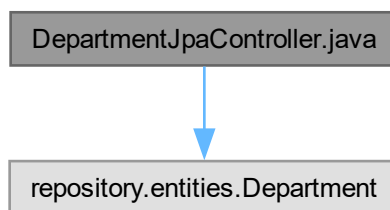
Packages

- package `repository.service`

7.29 DepartmentJpaController.java File Reference

```
import repository.entities.Department;
```

Include dependency graph for DepartmentJpaController.java:

**Classes**

- class `repository.service.DepartmentJpaController`

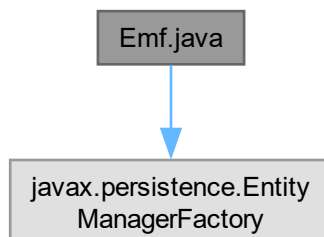
Packages

- package `repository.service`

7.30 Emf.java File Reference

```
import javax.persistence.EntityManagerFactory;
```

Include dependency graph for Emf.java:



Classes

- class `repository.service.Emf`

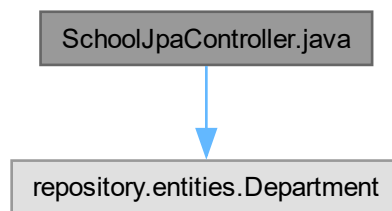
Packages

- package `repository.service`

7.31 SchoolJpaController.java File Reference

```
import repository.entities.Department;
```

Include dependency graph for SchoolJpaController.java:

**Classes**

- class `repository.service.SchoolJpaController`

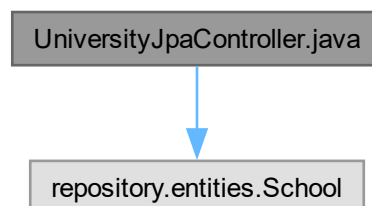
Packages

- package `repository.service`

7.32 UniversityJpaController.java File Reference

```
import repository.entities.School;
```

Include dependency graph for UniversityJpaController.java:



Classes

- class `repository.service.UniversityJpaController`

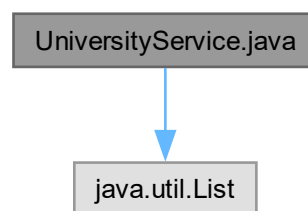
Packages

- package `repository.service`

7.33 UniversityService.java File Reference

```
import java.util.List;
```

Include dependency graph for UniversityService.java:

**Classes**

- class `repository.service.UniversityService`

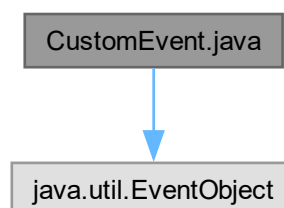
Packages

- package `repository.service`

7.34 CustomEvent.java File Reference

```
import java.util.EventObject;
```

Include dependency graph for CustomEvent.java:



Classes

- class `utils.CustomEvent< T >`

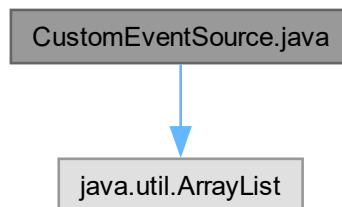
Packages

- package `utils`

7.35 CustomEventSource.java File Reference

```
import java.util.ArrayList;
```

Include dependency graph for CustomEventSource.java:



Classes

- class `utils.CustomEventSource< T >`

Packages

- package `utils`

7.36 ICustomEventListener.java File Reference

Classes

- interface `utils.ICustomEventListener< T >`

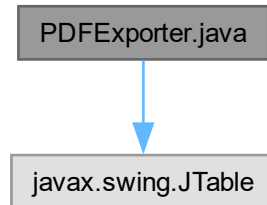
Packages

- package `utils`

7.37 PDFExporter.java File Reference

```
import javax.swing.JTable;
```

Include dependency graph for PDFExporter.java:



Classes

- class **utils.PDFExporter**

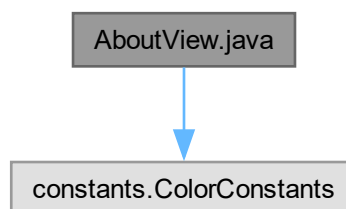
Packages

- package **utils**

7.38 AboutView.java File Reference

```
import constants.ColorConstants;
```

Include dependency graph for AboutView.java:



Classes

- class **view.AboutView**

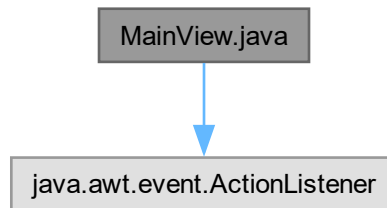
Packages

- package **view**

7.39 MainView.java File Reference

```
import java.awt.event.ActionListener;
```

Include dependency graph for MainView.java:



Classes

- class **view.MainView**

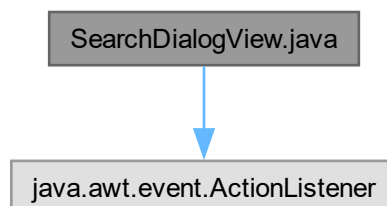
Packages

- package **view**

7.40 SearchDialogView.java File Reference

```
import java.awt.event.ActionListener;
```

Include dependency graph for SearchDialogView.java:



Classes

- class **view.SearchDialogView**

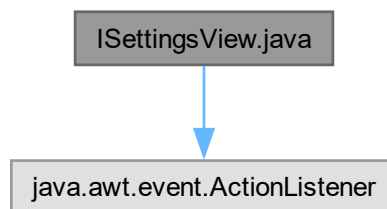
Packages

- package **view**

7.41 ISettingsView.java File Reference

```
import java.awt.event.ActionListener;
```

Include dependency graph for ISettingsView.java:

**Classes**

- interface **view.settingsForm.ISettingsView**

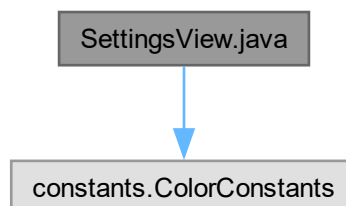
Packages

- package **view.settingsForm**

7.42 SettingsView.java File Reference

```
import constants.ColorConstants;
```

Include dependency graph for SettingsView.java:



Classes

- class **view.settingsForm.SettingsView**

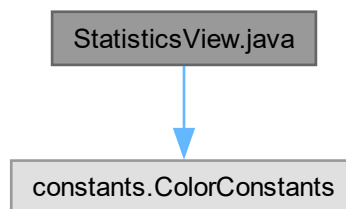
Packages

- package **view.settingsForm**

7.43 StatisticsView.java File Reference

```
import constants.ColorConstants;
```

Include dependency graph for StatisticsView.java:

**Classes**

- class **view.StatisticsView**

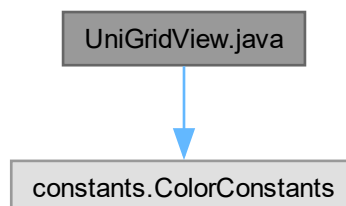
Packages

- package **view**

7.44 UniGridView.java File Reference

```
import constants.ColorConstants;
```

Include dependency graph for UniGridView.java:



Classes

- class **view.UniGridView**

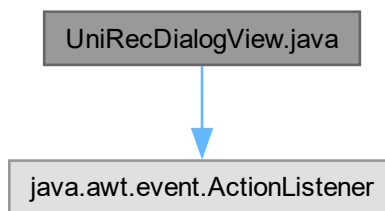
Packages

- package **view**

7.45 UniRecDialogView.java File Reference

```
import java.awt.event.ActionListener;
```

Include dependency graph for UniRecDialogView.java:

**Classes**

- class **view.UniRecDialogView**

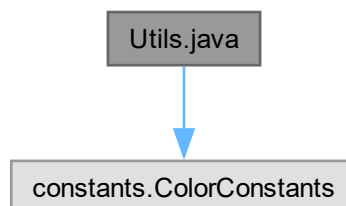
Packages

- package **view**

7.46 Utils.java File Reference

```
import constants.ColorConstants;
```

Include dependency graph for Utils.java:



Classes

- class **view.Utils**
- class **view.Utils.CustomComboBoxRenderer**

Packages

- package **view**