CryptoNotifier

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# **Chapter 1**

# **Cryptocurrencies Notifier**

#### 1.1 Tabla de contenidos

- 1. Introducción
- · 2. Descripción
- · 3. Instalación
- · 4. Ejecución
- 5. Autor

#### 1.2 1. Introducción

El proyecto consiste en una aplicación desarrollada en Java que permite al usuario recibir información en tiempo real sobre criptomonedas. La aplicación obtiene los datos de las criptomonedas a través de una API y se encarga de notificar a los usuarios suscritos acerca de los precios y otros datos relevantes que se actualizan periódicamente.

# 1.3 2. Descripción

El proyecto utiliza el patrón de diseño Observador y la arquitectura de software Modelo-Vista-Controlador permitiendo una mejorar la escalabilidad y adaptación del código a nuevos cambios.

La aplicación tiene dos visualizaciones diferentes. Una de ellas es por CLI (Command Line Interfaces) y la otra es por GUI (Graphical User Interface) que permite una visualización interactiva y un cuadro de mando que permite la simulación de gráficos para representar los datos obtenidos. En el directorio raíz del proyecto se encuentran las dos versiones generadas en ficheros .JAR

#### 1.4 3. Instalación

Para instalar el proyecto, se debe clonar el repositorio y ejecutar el siguiente comando:

git clone git@github.com:Fabrizzioperilli/CryptocurrenciesNotifier.git

## 1.5 4. Ejecución

Para ejecutar el proyecto, se debe ejecutar el siguiente comando:

Este comando se debe ejecutar desde la carpeta raíz del proyecto y debe tener instalado Maven. También se puede ejecutar el proyecto desde el IDE de desarrollo (IntelliJ IDEA).

# 1.6 5. Autor

• Fabrizzio Daniell Perilli Martín alu0101138589@ull.edu.es

[!IMPORTANT] Asegúrate de estar conectado a internet ya que los datos se obtienen en tiempo real a través de la API de Coincap.

# **Chapter 2**

# **Hierarchical Index**

# 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:	
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# **Class Index**

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# **Chapter 4**

# **Class Documentation**

# 4.1 org.ull.dap.app.AppCLI Class Reference

#### **Static Public Member Functions**

• static void main (String[] args)

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/App CLI.java

# 4.2 org.ull.dap.app.controllers.AppController Class Reference

Inheritance diagram for org.ull.dap.app.controllers.AppController:



Collaboration diagram for org.ull.dap.app.controllers.AppController:



#### **Public Member Functions**

- AppController (CryptocurrencyNotifier notifier, IView view)
- CryptocurrencyNotifier getNotifier ()
- void setNotifier (CryptocurrencyNotifier notifier)
- List< String > getUsersAvailable ()
- IView getView ()
- void setView (IView view)
- void actionPerformed (ActionEvent e)
- Map< IObserver, INotification > getNotificationsWithUsers ()

#### 4.2.1 Detailed Description

The type App controller.

#### 4.2.2 Constructor & Destructor Documentation

#### 4.2.2.1 AppController()

Instantiates a new App controller.

#### **Parameters**

notifier	the notifier
view	the view

#### 4.2.3 Member Function Documentation

#### 4.2.3.1 actionPerformed()

```
void org.ull.dap.app.controllers.AppController.actionPerformed ( {\tt ActionEvent} \ e \ )
```

Manage actios from view.

**Parameters** 

```
e the event to be processed
```

#### 4.2.3.2 getNotificationsWithUsers()

```
\label{eq:map_controller} \texttt{Map} \leftarrow \texttt{INotification} > \texttt{org.ull.dap.app.controllers.AppController.getNotifications} \leftarrow \texttt{WithUsers} \ ( \ )
```

Gets notifications with users.

Returns

the notifications with users

#### 4.2.3.3 getNotifier()

```
\label{lem:controller:appController:getNotifier org.ull.dap.app.controllers. AppController.getNotifier ( ) \\ \textbf{Gets notifier}.
```

Returns

the notifier

#### 4.2.3.4 getUsersAvailable()

```
\label{list} {\tt List} < {\tt String} > {\tt org.ull.dap.app.controllers.AppController.getUsersAvailable} \ \ (\ ) \\ {\tt Gets} \ \ {\tt users} \ \ {\tt available}.
```

Returns

the users available

#### 4.2.3.5 getView()

```
IView org.ull.dap.app.controllers.AppController.getView ( ) \mbox{\bf Gets\ view}.
```

Returns

the view

#### 4.2.3.6 setNotifier()

Sets notifier.

```
notifier the notifier
```

#### 4.2.3.7 setView()

the view

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/cont Controller.java

### 4.3 org.ull.dap.app.AppDesktop Class Reference

#### **Static Public Member Functions**

• static void main (String[] args)

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/App Desktop.java

# 4.4 org.ull.dap.app.models.entities.Asset Class Reference

#### **Public Member Functions**

- Asset ()
- · Asset (Data data, String timestamp)
- Data getData ()
- void setData (Data data)
- String getTimestamp ()
- void setTimestamp (String timestamp)
- · String toString ()

#### 4.4.1 Detailed Description

The type Asset.

#### 4.4.2 Constructor & Destructor Documentation

#### **Parameters**

data	the data
timestamp	the timestamp

#### 4.4.3 Member Function Documentation

#### 4.4.3.1 getData()

```
Data org.ull.dap.app.models.entities.Asset.getData ( )
Gets data.
Returns
```

the data

#### 4.4.3.2 getTimestamp()

```
String org.ull.dap.app.models.entities.Asset.getTimestamp ( ) \mbox{\sc Gets timestamp}.
```

Returns

the timestamp

#### 4.4.3.3 setData()

```
void org.ull.dap.app.models.entities.Asset.setData ( {\tt Data}\ data\ )
```

Sets data.

#### **Parameters**

data	the data

#### 4.4.3.4 setTimestamp()

Sets timestamp.

#### **Parameters**

timestamp	the timestamp

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.5 org.ull.dap.app.controllers.CryptoActionManager Class Reference

#### **Public Member Functions**

- CryptoActionManager (AppController appController)
- void handleCryptoAction (String actionCommand)

#### 4.5.1 Detailed Description

The type Crypto data manager.

#### 4.5.2 Constructor & Destructor Documentation

#### 4.5.2.1 CryptoActionManager()

```
org.ull.dap.app.controllers.CryptoActionManager.CryptoActionManager ( {\tt AppController}\ appController\ ) Instantiates a new Crypto data manager.
```

#### **Parameters**

appController	the app controller
---------------	--------------------

#### 4.5.3 Member Function Documentation

#### 4.5.3.1 handleCryptoAction()

```
\begin{tabular}{ll} void org.ull.dap.app.controllers.CryptoActionManager.handleCryptoAction ( & String actionCommand ) \\ \end{tabular} Handle crypto action.
```

#### **Parameters**

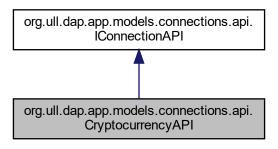
actionCommand	the action command	
actioniconninaria	the action command	

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

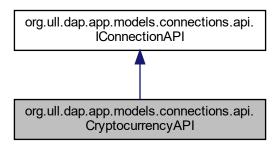
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/cont ActionManager.java

# 4.6 org.ull.dap.app.models.connections.api.CryptocurrencyAPI Class Reference

Inheritance diagram for org.ull.dap.app.models.connections.api.CryptocurrencyAPI:



Collaboration diagram for org.ull.dap.app.models.connections.api.CryptocurrencyAPI:



#### **Public Member Functions**

- HttpRequest buildHttpRequest (String nameCrypto)
- HttpResponse< String > sendHttpRequest (HttpRequest request) throws Exception
- Asset getAssetData (String nameCrypto)
- String getUriAPI ()

#### 4.6.1 Detailed Description

The type Cryptocurrency api.

#### 4.6.2 Member Function Documentation

#### 4.6.2.1 buildHttpRequest()

```
\label{thm:connections.api.CryptocurrencyAPI.buildHttpRequest ( \\ String \ \textit{nameCrypto} \ )
```

Build http request http request.

#### **Parameters**

nameCrypto	the name crypto
------------	-----------------

#### Returns

The http request

Implements org.ull.dap.app.models.connections.api.IConnectionAPI.

#### 4.6.2.2 getAssetData()

```
Asset org.ull.dap.app.models.connections.api.CryptocurrencyAPI.getAssetData ( String \ nameCrypto \ )
```

Gets asset data.

#### **Parameters**

nameCrypto
------------

#### **Returns**

the asset data

Implements org.ull.dap.app.models.connections.api.IConnectionAPI.

#### 4.6.2.3 getUriAPI()

```
String org.ull.dap.app.models.connections.api.CryptocurrencyAPI.getUriAPI () Gets uri api.
```

**Returns** 

the uri api

### 4.6.2.4 sendHttpRequest()

```
\label{thm:models.connections.api.CryptocurrencyAPI.sendHttp} \\ \text{Request (}
```

 ${\tt HttpRequest}$  request ) throws Exception

Send http request http response.

request	the request

Returns

The http response

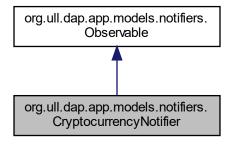
Implements org.ull.dap.app.models.connections.api.IConnectionAPI.

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

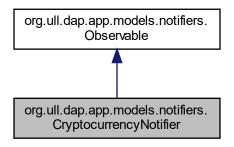
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod API.java

# 4.7 org.ull.dap.app.models.notifiers.CryptocurrencyNotifier Class Reference

Inheritance diagram for org.ull.dap.app.models.notifiers.CryptocurrencyNotifier:



 $Collaboration\ diagram\ for\ or g. ull. dap. app. models. not if iers. Cryptocurrency Notifier:$ 



#### **Public Member Functions**

- CryptocurrencyNotifier ()
- void subscribe (IObserver observer)
- void unsubscribe (IObserver observer)
- List< IObserver > getObservers ()
- void notifyObservers ()

```
    List< Asset > getAssets ()
```

- List< String > getNamesCryptocurrencies ()
- IConnectionAPI getConnectionAPI ()
- Map< String, String > getCryptoNameImage ()

#### 4.7.1 Detailed Description

The type Cryptocurrency notifier.

#### 4.7.2 Constructor & Destructor Documentation

#### 4.7.2.1 CryptocurrencyNotifier()

 ${\tt org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.CryptocurrencyNotifier\ (\ )} \\ {\tt Instantiates\ a\ new\ Cryptocurrency\ notifier.} \\$ 

#### 4.7.3 Member Function Documentation

#### 4.7.3.1 getAssets()

```
\label{list-asset} List < Asset > {\tt org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.getAssets} \ (\ ) \\ \textbf{Gets assets.}
```

Returns

the assets

#### 4.7.3.2 getConnectionAPI()

IConnectionAPI org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.getConnectionAPI ( )
Gets connection api.

Returns

the connection api

#### 4.7.3.3 getCryptoNameImage()

```
\label{lem:map:map:models.notifiers.CryptocurrencyNotifier.getCryptoName} $$\operatorname{Image}()$
```

Gets crypto name image.

Returns

the crypto name image

#### 4.7.3.4 getNamesCryptocurrencies()

```
List< String > org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.getNamesCryptocurrencies ( )
```

Gets names cryptocurrencies.

Returns

the names cryptocurrencies

#### 4.7.3.5 getObservers()

```
\label{list_constraints} List < {\tt IObserver} > {\tt org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.getObservers} \ \ (\ ) \\ {\tt Gets\ observers.}
```

Returns

the observers

#### 4.7.3.6 notifyObservers()

```
{\tt void \ org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.notifyObservers} \ \ (\ ) \ \ \textbf{Notify observers}.
```

Implements org.ull.dap.app.models.notifiers.Observable.

#### 4.7.3.7 subscribe()

#### **Parameters**

observer the observer

Implements org.ull.dap.app.models.notifiers.Observable.

#### 4.7.3.8 unsubscribe()

Unsubscribe.

#### **Parameters**

|--|

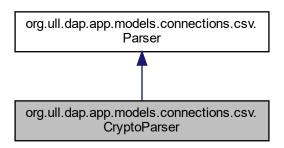
Implements org.ull.dap.app.models.notifiers.Observable.

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

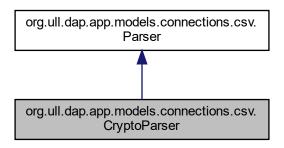
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod Notifier.java

# 4.8 org.ull.dap.app.models.connections.csv.CryptoParser Class Reference

Inheritance diagram for org.ull.dap.app.models.connections.csv.CryptoParser:



Collaboration diagram for org.ull.dap.app.models.connections.csv.CryptoParser:



#### **Public Member Functions**

• CryptoParser (CSVReader csvReader)

#### **Protected Member Functions**

• Object convert (String value, String columName)

#### 4.8.1 Detailed Description

The type Crypto parser.

#### 4.8.2 Constructor & Destructor Documentation

#### 4.8.2.1 CryptoParser()

Instantiates a new Crypto parser.

#### **Parameters**

csvReader	the csv reader
-----------	----------------

#### 4.8.3 Member Function Documentation

#### 4.8.3.1 convert()

#### Parameters

value	the value
columName	the colum name

#### Returns

the object

Reimplemented from org.ull.dap.app.models.connections.csv.Parser.

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod Parser.java

# 4.9 org.ull.dap.app.models.connections.csv.CSVReader Class Reference

#### **Public Member Functions**

- CSVReader (String url)
- String getHeader ()
- List< String > getRecords ()
- void partialPrint (int row)
- String getUrl ()

## 4.9.1 Detailed Description

The type Csv reader.

#### 4.9.2 Constructor & Destructor Documentation

### 4.9.2.1 CSVReader()

```
org.ull.dap.app.models.connections.csv.CSVReader.CSVReader ( {\tt String} \ url \ )
```

Instantiates a new Csv reader.

#### **Parameters**

*url* the url

#### 4.9.3 Member Function Documentation

# 4.9.3.1 getHeader()

```
String org.ull.dap.app.models.connections.csv.CSVReader.getHeader ( )  \begin{tabular}{ll} \textbf{Gets header.} \end{tabular}
```

Returns

the header

#### 4.9.3.2 getRecords()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.models.connections.csv.CSVReader.getRecords} \ \ (\ ) \\ \textbf{Gets records.}
```

**Returns** 

the records

#### 4.9.3.3 getUrl()

```
String org.ull.dap.app.models.connections.csv.CSVReader.getUrl ( ) \mbox{\sc Gets url.}
```

Returns

the url

#### 4.9.3.4 partialPrint()

```
void org.ull.dap.app.models.connections.csv.CSVReader.partialPrint ( int \ \textit{row} \ ) 
 Partial print.
```

. a. ..a. p. . . .

Parameters

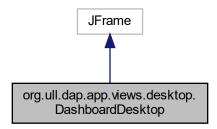
row the row

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

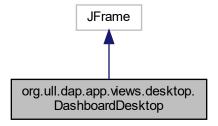
C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.10 org.ull.dap.app.views.desktop.DashboardDesktop Class Reference

Inheritance diagram for org.ull.dap.app.views.desktop.DashboardDesktop:



Collaboration diagram for org.ull.dap.app.views.desktop.DashboardDesktop:



#### **Public Member Functions**

- DashboardDesktop (String title)
- void updateData (List< Asset > assets)

## 4.10.1 Detailed Description

The type Dashboard desktop.

#### 4.10.2 Constructor & Destructor Documentation

#### 4.10.2.1 DashboardDesktop()

```
org.ull.dap.app.views.desktop.DashboardDesktop.DashboardDesktop ( {\tt String} \ title \ )
```

Instantiates a new Dashboard desktop.

#### **Parameters**

title the title

#### 4.10.3 Member Function Documentation

#### 4.10.3.1 updateData()

```
void org.ull.dap.app.views.desktop.DashboardDesktop.updateData ( {\tt List} < {\tt Asset} \, > \, assets \, \, ) 
 {\tt Update \ data}.
```

#### **Parameters**

assets the assets

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view Desktop.java

### 4.11 org.ull.dap.app.models.entities.Data Class Reference

#### **Public Member Functions**

- Data ()
- Data (String id, int rank, String symbol, String name, double supply, double maxSupply, double market
   —
   CapUsd, double volumeUsd24Hr, double priceUsd, double changePercent24Hr, double vwap24Hr, String
   explorer)
- String getId ()
- · void setId (String id)
- int getRank ()
- void setRank (int rank)
- String getSymbol ()
- void setSymbol (String symbol)
- String getName ()
- void setName (String name)
- double getSupply ()
- void setSupply (double supply)
- double getMaxSupply ()
- void setMaxSupply (double maxSupply)
- double getMarketCapUsd ()
- void setMarketCapUsd (double marketCapUsd)
- double getVolumeUsd24Hr ()
- void setVolumeUsd24Hr (double volumeUsd24Hr)
- double getPriceUsd ()
- void setPriceUsd (double priceUsd)
- double getChangePercent24Hr ()
- void setChangePercent24Hr (double changePercent24Hr)
- double getVwap24Hr ()
- void setVwap24Hr (double vwap24Hr)
- String getExplorer ()
- void setExplorer (String explorer)
- String toString ()

### 4.11.1 Detailed Description

The type Data.

#### 4.11.2 Constructor & Destructor Documentation

#### 4.11.2.1 Data() [1/2]

```
org.ull.dap.app.models.entities.Data.Data ( )
Instantiates a new Data.
```

#### 4.11.2.2 Data() [2/2]

Instantiates a new Data.

#### **Parameters**

id	the id
rank	the rank
symbol	the symbol
name	the name
supply	the supply
maxSupply	the max supply
marketCapUsd	the market cap usd
volumeUsd24Hr	the volume usd 24 hr
priceUsd	the price usd
changePercent24Hr	the change percent 24 hr
vwap24Hr	the vwap 24 hr
explorer	the explorer

#### 4.11.3 Member Function Documentation

#### 4.11.3.1 getChangePercent24Hr()

```
double org.ull.dap.app.models.entities.Data.getChangePercent24Hr ( ) Gets change percent 24 hr.
```

```
Returns
```

the change percent 24 hr

#### 4.11.3.2 getExplorer()

```
String org.ull.dap.app.models.entities.Data.getExplorer ( )
Gets explorer.
```

**Returns** 

the explorer

#### 4.11.3.3 getId()

```
String org.ull.dap.app.models.entities.Data.getId ( )
Gets id.
Returns
```

the id

#### 4.11.3.4 getMarketCapUsd()

```
double org.ull.dap.app.models.entities.Data.getMarketCapUsd ( )
Gets market cap usd.
```

Returns

the market cap usd

#### 4.11.3.5 getMaxSupply()

```
double org.ull.dap.app.models.entities.Data.getMaxSupply ( )
Gets max supply.
```

**Returns** 

the max supply

#### 4.11.3.6 getName()

```
String org.ull.dap.app.models.entities.Data.getName ( )
Gets name.
```

Returns

the name

#### 4.11.3.7 getPriceUsd()

```
double org.ull.dap.app.models.entities.Data.getPriceUsd ( )
Gets price usd.
```

Returns

the price usd

```
4.11.3.8 getRank()
```

```
int org.ull.dap.app.models.entities.Data.getRank ( ) \label{eq:Gets} \textbf{Gets rank}.
```

Returns

the rank

#### 4.11.3.9 getSupply()

```
double org.ull.dap.app.models.entities.Data.getSupply ( ) \mbox{\footnote{dets}} Gets supply.
```

Returns

the supply

#### 4.11.3.10 getSymbol()

```
String org.ull.dap.app.models.entities.Data.getSymbol ( ) \mbox{\bf Gets\ symbol}.
```

Returns

the symbol

#### 4.11.3.11 getVolumeUsd24Hr()

```
double org.ull.dap.app.models.entities.Data.getVolumeUsd24Hr ( ) {\bf Gets\ volume\ usd\ 24\ hr.}
```

Returns

the volume usd 24 hr

#### 4.11.3.12 getVwap24Hr()

```
double org.ull.dap.app.models.entities.Data.getVwap24Hr ( ) Gets vwap24 hr.
```

Returns

the vwap 24 hr

#### 4.11.3.13 setChangePercent24Hr()

```
void org.ull.dap.app.models.entities.Data.setChangePercent24Hr ( \label{eq:changePercent24Hr} \ )
```

Sets change percent 24 hr.

changePercent24Hr	the change percent 24 hr
Changer ercentzarin	lile change percent 24 m

#### 4.11.3.14 setExplorer()

Sets explorer.

**Parameters** 

```
explorer the explorer
```

#### 4.11.3.15 setId()

```
void org.ull.dap.app.models.entities.Data.setId ( String \ id \ )
```

Sets id.

**Parameters** 

id the id

#### 4.11.3.16 setMarketCapUsd()

```
void org.ull.dap.app.models.entities.Data.setMarketCapUsd ( \label{eq:capUsd} \mbox{double } marketCapUsd \mbox{ )}
```

Sets market cap usd.

**Parameters** 

```
marketCapUsd the market cap usd
```

#### 4.11.3.17 setMaxSupply()

```
void org.ull.dap.app.models.entities.Data.setMaxSupply ( {\tt double} \ {\tt maxSupply} \ )
```

Sets max supply.

**Parameters** 

```
maxSupply the max supply
```

#### 4.11.3.18 setName()

Sets name.

name	the name

#### 4.11.3.19 setPriceUsd()

Sets price usd.

#### **Parameters**

```
priceUsd the price usd
```

#### 4.11.3.20 setRank()

```
void org.ull.dap.app.models.entities.Data.setRank ( int \ \textit{rank} \ )
```

Sets rank.

#### **Parameters**

#### 4.11.3.21 setSupply()

```
void org.ull.dap.app.models.entities.Data.setSupply ( \label{eq:condition} \mbox{double } supply \mbox{ )}
```

Sets supply.

#### **Parameters**

```
supply the supply
```

#### 4.11.3.22 setSymbol()

```
void org.ull.dap.app.models.entities.Data.setSymbol ( String \ \ symbol \ )
```

Sets symbol.

#### **Parameters**

```
symbol the symbol
```

#### 4.11.3.23 setVolumeUsd24Hr()

```
void org.ull.dap.app.models.entities.Data.setVolumeUsd24Hr ( {\tt double}\ volumeUsd24Hr\ )
```

Sets volume usd 24 hr.

volumeUsd24Hr	the volume usd 24 hr

# 4.11.3.24 setVwap24Hr()

```
void org.ull.dap.app.models.entities.Data.setVwap24Hr ( {\tt double} \  \, vwap24Hr \ ) Sets vwap 24 hr.
```

#### **Parameters**

vwap24Hr the vwap 24 hr

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.12 org.ull.dap.app.models.connections.csv.HttpFileDownloader Class Reference

# **Static Public Member Functions**

• static String downloadFromURL (String link)

# 4.12.1 Detailed Description

The type Http file downloader.

# 4.12.2 Member Function Documentation

# 4.12.2.1 downloadFromURL()

### **Parameters**

*link* the link

#### Returns

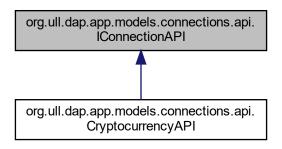
the string

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod FileDownloader.java

# 4.13 org.ull.dap.app.models.connections.api.lConnectionAPI Interface Reference

Inheritance diagram for org.ull.dap.app.models.connections.api.IConnectionAPI:



#### **Public Member Functions**

- HttpRequest buildHttpRequest (String nameCrypto)
- HttpResponse< String > sendHttpRequest (HttpRequest request) throws Exception
- Asset getAssetData (String nameCrypto)

# 4.13.1 Detailed Description

The interface Connection api.

# 4.13.2 Member Function Documentation

# 4.13.2.1 buildHttpRequest()

```
\label{thm:connections.api.IConnectionAPI.buildHttpRequest (String $nameCrypto$) } \\ \textbf{Build http request http request.}
```

zana mp roquoti m

# **Parameters**

nameCrypto	the name crypto

#### Returns

the http request

Implemented in org.ull.dap.app.models.connections.api.CryptocurrencyAPI.

# 4.13.2.2 getAssetData()

```
Asset org.ull.dap.app.models.connections.api.IConnectionAPI.getAssetData ( String \ nameCrypto \ )
```

Gets asset data.

#### **Parameters**

nameCrypto	the name crypto
------------	-----------------

#### Returns

the asset data

Implemented in org.ull.dap.app.models.connections.api.CryptocurrencyAPI.

# 4.13.2.3 sendHttpRequest()

Send http request http response.

### **Parameters**

request	the request

# Returns

the http response

# **Exceptions**

Exception the exception
-------------------------

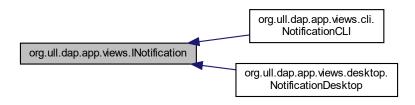
Implemented in org.ull.dap.app.models.connections.api.CryptocurrencyAPI.

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod API.java

# 4.14 org.ull.dap.app.views.INotification Interface Reference

Inheritance diagram for org.ull.dap.app.views.lNotification:



#### **Public Member Functions**

void showNotification (List< String > messages, Map< String, String > cryptoImages)

# 4.14.1 Detailed Description

The interface Notification.

#### 4.14.2 Member Function Documentation

# 4.14.2.1 showNotification()

```
void org.ull.dap.app.views.INotification.showNotification ( \label{list} {\tt List} < {\tt String} > {\tt messages}, \\ {\tt Map} < {\tt String}, {\tt String} > {\tt cryptoImages} \; ) Show notification.
```

# **Parameters**

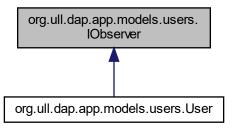
messages	the messages
cryptolmages	the crypto images

Implemented in org.ull.dap.app.views.cli.NotificationCLI, and org.ull.dap.app.views.desktop.NotificationDesktop. The documentation for this interface was generated from the following file:

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view java

# 4.15 org.ull.dap.app.models.users.IObserver Interface Reference

Inheritance diagram for org.ull.dap.app.models.users.IObserver:



#### **Public Member Functions**

- void update (Asset asset)
- void addCrypto (String name)
- void deleteCrypto (String name)
- List< String > getNameCryptos ()
- List< String > getMessagesToNotify ()
- String getName ()

# 4.15.1 Detailed Description

The interface Observer.

# 4.15.2 Member Function Documentation

# 4.15.2.1 addCrypto()

```
void org.ull.dap.app.models.users.IObserver.addCrypto ( {\tt String} \ name \ ) 
 {\tt Add} \ crypto.
```

# **Parameters**

name	the name
------	----------

 $Implemented \ in \ or g. ull. dap. app. models. users. User.$ 

# 4.15.2.2 deleteCrypto()

#### **Parameters**

name	the name

Implemented in org.ull.dap.app.models.users.User.

# 4.15.2.3 getMessagesToNotify()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.models.users.IObserver.getMessagesToNotify} \mbox{ ( )} \\ \textbf{Gets messages to notify.}
```

Returns

the messages to notify

Implemented in org.ull.dap.app.models.users.User.

# 4.15.2.4 getName()

```
String org.ull.dap.app.models.users.IObserver.getName ( ) \mbox{\footnote{Mathematics} Gets name.}
```

Returns

the name

Implemented in org.ull.dap.app.models.users.User.

# 4.15.2.5 getNameCryptos()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.models.users.IObserver.getNameCryptos} \ (\ ) \\ \textbf{Gets name cryptos}.
```

Returns

the name cryptos

Implemented in org.ull.dap.app.models.users.User.

# 4.15.2.6 update()

```
void org.ull.dap.app.models.users.IObserver.update ( {\tt Asset} \ asset \ ) \\ {\tt Update}.
```

Parameters

asset the asset

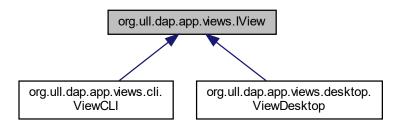
Implemented in org.ull.dap.app.models.users.User.

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/modiava

# 4.16 org.ull.dap.app.views.IView Interface Reference

Inheritance diagram for org.ull.dap.app.views.IView:



# **Public Member Functions**

- List< String > getUsersSelected ()
- List< INotification > getNotifications ()
- void windowSelectCryptos ()
- String getUserComboBoxString ()

# 4.16.1 Detailed Description

The interface View.

# 4.16.2 Member Function Documentation

# 4.16.2.1 getNotifications()

```
\label{list_interpolation} List < INotification > {\tt org.ull.dap.app.views.IView.getNotifications} \ \ (\ ) 
 Gets notifications.
```

Returns

the notifications

Implemented in org.ull.dap.app.views.cli.ViewCLI, and org.ull.dap.app.views.desktop.ViewDesktop.

# 4.16.2.2 getUserComboBoxString()

```
String org.ull.dap.app.views.IView.getUserComboBoxString ( )  \begin{tabular}{ll} Gets user combo box string. \end{tabular} \label{table}
```

Returns

the user combo box string

 $Implemented\ in\ org.ull. dap. app. views. cli. View CLI,\ and\ org.ull. dap. app. views. desktop. View Desktop.$ 

### 4.16.2.3 getUsersSelected()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.views.IView.getUsersSelected} \ \ (\ ) \\ \textbf{Gets users selected}.
```

Returns

the users selected

Implemented in org.ull.dap.app.views.cli.ViewCLI, and org.ull.dap.app.views.desktop.ViewDesktop.

# 4.16.2.4 windowSelectCryptos()

```
void org.ull.dap.app.views.IView.windowSelectCryptos ( )
```

Window select cryptos.

Implemented in org.ull.dap.app.views.cli.ViewCLI, and org.ull.dap.app.views.desktop.ViewDesktop.

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view
java

# 4.17 org.ull.dap.app.controllers.LoginManager Class Reference

# **Public Member Functions**

- LoginManager (AppController appController)
- void handleLogin ()
- void suscribeUsers (List< String > usersSelected)

# 4.17.1 Detailed Description

The type User manager.

# 4.17.2 Constructor & Destructor Documentation

# 4.17.2.1 LoginManager()

Instantiates a new User manager.

# **Parameters**

```
appController the app controller
```

# 4.17.3 Member Function Documentation

### 4.17.3.1 handleLogin()

```
\begin{tabular}{ll} \begin{tabular}{ll} void org.ull.dap.app.controllers.LoginManager.handleLogin ( ) \\ \begin{tabular}{ll} \begin{tabular}{ll}
```

# 4.17.3.2 suscribeUsers()

```
void org.ull.dap.app.controllers.LoginManager.suscribeUsers ( {\tt List<\ String\ >\ usersSelected\ )} Suscribe users.
```

# Parameters

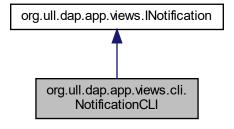
usersSelected	the users selected
usersoelected	the users selected

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

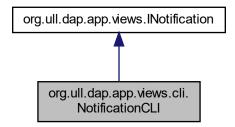
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/cont Manager.java

# 4.18 org.ull.dap.app.views.cli.NotificationCLI Class Reference

Inheritance diagram for org.ull.dap.app.views.cli.NotificationCLI:



 $Collaboration\ diagram\ for\ org.ull. dap. app. views. cli. Notification CLI:$ 



# **Public Member Functions**

- · NotificationCLI ()
- void showNotification (List< String > messages, Map< String, String > cryptoImages)

# 4.18.1 Detailed Description

The type Notification cli.

# 4.18.2 Constructor & Destructor Documentation

# 4.18.2.1 NotificationCLI()

```
org.ull.dap.app.views.cli.NotificationCLI.NotificationCLI ( ) Instantiates a new Notification cli.
```

# 4.18.3 Member Function Documentation

# 4.18.3.1 showNotification()

#### **Parameters**

messages	the messages
cryptolmages	the crypto images

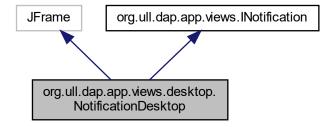
Implements org.ull.dap.app.views.INotification.

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

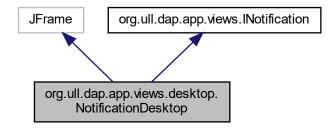
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view CLI.java

# 4.19 org.ull.dap.app.views.desktop.NotificationDesktop Class Reference

Inheritance diagram for org.ull.dap.app.views.desktop.NotificationDesktop:



Collaboration diagram for org.ull.dap.app.views.desktop.NotificationDesktop:



#### **Public Member Functions**

- NotificationDesktop ()
- Imagelcon resizelcon (Imagelcon icon, int width, int height)
- void showNotification (List< String > messages, Map< String, String > cryptoNameImage)

# **Static Public Member Functions**

• static String extractNameCrypto (String message)

# **Static Public Attributes**

• static final String ROUTE\_IMAGE\_LOGO = "/images/logo\_app.png"

# 4.19.1 Detailed Description

The type Notification desktop.

# 4.19.2 Constructor & Destructor Documentation

# 4.19.2.1 NotificationDesktop()

 ${\tt org.ull.dap.app.views.desktop.NotificationDesktop.NotificationDesktop.} \label{top:notificationDesktop.NotificationDesktop.NotificationDesktop.} \\ {\tt Instantiates\ a\ new\ Notification\ desktop.}}$ 

#### 4.19.3 Member Function Documentation

# 4.19.3.1 extractNameCrypto()

 $\label{thm:condition} static \ String \ org.ull.dap.app.views.desktop.NotificationDesktop.extractNameCrypto \ ( \\ String \ \textit{message} \ ) \ [static]$ 

Extract name crypto string.

# **Parameters**

message t	he message
-----------	------------

#### Returns

the string

# 4.19.3.2 resizelcon()

Resize icon image icon.

#### **Parameters**

icon	the icon
width	the width
height	the height

#### Returns

the image icon

# 4.19.3.3 showNotification()

```
void org.ull.dap.app.views.desktop.NotificationDesktop.showNotification (  \mbox{List} < \mbox{String} > \mbox{\it messages}, \\ \mbox{Map} < \mbox{String}, \mbox{String} > \mbox{\it cryptoImages} \ )
```

Show notification.

#### **Parameters**

messages	the messages
cryptolmages	the crypto images

Implements org.ull.dap.app.views.INotification.

# 4.19.4 Member Data Documentation

# 4.19.4.1 ROUTE\_IMAGE\_LOGO

```
final String org.ull.dap.app.views.desktop.NotificationDesktop.ROUTE_IMAGE_LOGO = "/images/logo← _app.png" [static]
```

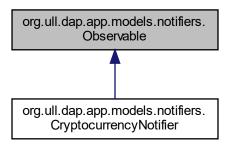
The constant ROUTE IMAGE LOGO.

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view Desktop.java

# 4.20 org.ull.dap.app.models.notifiers.Observable Interface Reference

Inheritance diagram for org.ull.dap.app.models.notifiers.Observable:



#### **Public Member Functions**

- void subscribe (IObserver observer)
- void unsubscribe (IObserver observer)
- void notifyObservers ()

# 4.20.1 Detailed Description

The interface Observable.

# 4.20.2 Member Function Documentation

# 4.20.2.1 notifyObservers()

```
\begin{tabular}{ll} \begin{tabular}{ll} void org.ull.dap.app.models.notifiers.Observable.notifyObservers () \\ \begin{tabular}{ll} Notify observers. \\ \end{tabular}
```

Implemented in org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.

#### 4.20.2.2 subscribe()

#### **Parameters**

```
observer the observer
```

Implemented in org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.

#### 4.20.2.3 unsubscribe()

Unsubscribe.

**Parameters** 

observer	the observer
----------	--------------

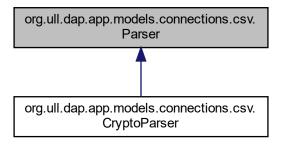
Implemented in org.ull.dap.app.models.notifiers.CryptocurrencyNotifier.

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.21 org.ull.dap.app.models.connections.csv.Parser Class Reference

Inheritance diagram for org.ull.dap.app.models.connections.csv.Parser:



# **Public Member Functions**

- Parser (CSVReader csvReader)
- List< Diject > > getData ()
- String[] getHeader ()

# **Protected Member Functions**

• abstract Object convert (String value, String columName)

# 4.21.1 Detailed Description

The type Parser.

# 4.21.2 Constructor & Destructor Documentation

# 4.21.2.1 Parser()

```
org.ull.dap.app.models.connections.csv.Parser.Parser (  {\it CSVReader}\ csvReader\ ) \\ {\it Instantiates\ a\ new\ Parser.}
```

#### **Parameters**

# 4.21.3 Member Function Documentation

### 4.21.3.1 convert()

#### •

#### **Parameters**

value	the value
columName	the colum name

#### Returns

the object

Reimplemented in org.ull.dap.app.models.connections.csv.CryptoParser.

#### 4.21.3.2 getData()

```
\label{list_list_list} \mbox{List< Object > org.ull.dap.app.models.connections.csv.Parser.getData ( )} \\ \mbox{Gets data}. \\ \mbox{Returns}
```

the data

# 4.21.3.3 getHeader()

```
\label{lem:connections.csv.Parser.getHeader ( ) Get header string [ ]. } Get header string [ ].
```

Returns

the string []

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

C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.22 org.ull.dap.app.controllers.StartManager Class Reference

# **Public Member Functions**

- StartManager (AppController appController)
- void handleStart ()
- boolean checkAllUsersHaveCryptos ()
- void start ()

# 4.22.1 Detailed Description

The type Start manager.

# 4.22.2 Constructor & Destructor Documentation

# 4.22.2.1 StartManager()

Instantiates a new Start manager.

#### **Parameters**

appController	the app controller
---------------	--------------------

# 4.22.3 Member Function Documentation

# 4.22.3.1 checkAllUsersHaveCryptos()

```
{\tt boolean~org.ull.dap.app.controllers.StartManager.checkAllUsersHaveCryptos~(~)} \\ {\tt Check~all~users~have~cryptos~boolean}.
```

Returns

the boolean

# 4.22.3.2 handleStart()

```
void org.ull.dap.app.controllers.StartManager.handleStart ( )  \mbox{\bf Handle start}.
```

# 4.22.3.3 start()

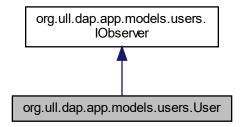
```
void org.ull.dap.app.controllers.StartManager.start ( )
```

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

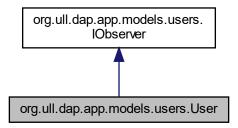
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/cont Manager.java

# 4.23 org.ull.dap.app.models.users.User Class Reference

Inheritance diagram for org.ull.dap.app.models.users.User:



Collaboration diagram for org.ull.dap.app.models.users.User:



# **Public Member Functions**

- User ()
- User (String name, long id, List< String > nameCryptos)
- void update (Asset asset)
- List< String > getNameCryptos ()
- Map< String, Double > getCryptoPrices ()
- void addCrypto (String name)
- void deleteCrypto (String name)
- String toString ()
- int hashCode ()
- String getName ()
- List< String > getMessagesToNotify ()
- void setName (String name)
- long getId ()
- · void setId (long id)
- void setNameCryptos (List< String > nameCryptos)
- void setCryptoPrices (Map< String, Double > cryptoPrices)
- void setMessagesToNotify (List< String > messagesToNotify)

# 4.23.1 Detailed Description

The type User.

# 4.23.2 Constructor & Destructor Documentation

```
4.23.2.1 User() [1/2]
```

```
org.ull.dap.app.models.users.User.User ( )
Instantiates a new User.
```

# 4.23.2.2 User() [2/2]

Instantiates a new User.

#### **Parameters**

name	the name
id	the id
nameCryptos	the name cryptos

# 4.23.3 Member Function Documentation

# 4.23.3.1 addCrypto()

```
void org.ull.dap.app.models.users.User.addCrypto ( {\tt String} \ name \ )
```

Add crypto.

#### **Parameters**

name   the name
-----------------

Implements org.ull.dap.app.models.users.IObserver.

# 4.23.3.2 deleteCrypto()

Delete crypto.

### **Parameters**

name	the name

Implements org.ull.dap.app.models.users.IObserver.

# 4.23.3.3 getCryptoPrices()

```
\label{eq:map_models_users_User_getCryptoPrices} \mbox{$\tt Map< String, Double > org.ull.dap.app.models.users.User.getCryptoPrices ( )} \\ \mbox{$\tt Gets crypto prices.} \mbox{}
```

Returns

the crypto prices

# 4.23.3.4 getId()

```
long org.ull.dap.app.models.users.User.getId ( ) \ensuremath{\mathsf{Gets}} id.
```

Returns

the id

# 4.23.3.5 getMessagesToNotify()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.models.users.User.getMessagesToNotify} \ \ (\ ) \\ \textbf{Gets messages to notify.}
```

Returns

the messages to notify

Implements org.ull.dap.app.models.users.IObserver.

### 4.23.3.6 getName()

```
String org.ull.dap.app.models.users.User.getName ( ) \mbox{\sc Gets name}.
```

Returns

the name

Implements org.ull.dap.app.models.users.IObserver.

# 4.23.3.7 getNameCryptos()

```
\label{list_star} {\tt List} < {\tt String} > {\tt org.ull.dap.app.models.users.User.getNameCryptos} \ (\ ) \\ {\tt Gets} \ name\ cryptos. \\
```

Returns

the name cryptos

Implements org.ull.dap.app.models.users.IObserver.

# 4.23.3.8 setCryptoPrices()

```
void org.ull.dap.app.models.users.User.setCryptoPrices ( ${\tt Map}{<}$ String, Double > {\it cryptoPrices} ) Sets crypto prices.
```

#### **Parameters**

```
cryptoPrices the crypto prices
```

# 4.23.3.9 setId()

```
void org.ull.dap.app.models.users.User.setId ( \label{eq:condition} \log \ id \ )
```

Sets id.

#### **Parameters**

id the id

# 4.23.3.10 setMessagesToNotify()

Sets messages to notify.

# **Parameters**

messagesToNotify	the messages to notify
------------------	------------------------

# 4.23.3.11 setName()

```
void org.ull.dap.app.models.users.User.setName ( {\tt String} \ name \ )
```

Sets name.

#### **Parameters**

```
name the name
```

# 4.23.3.12 setNameCryptos()

```
void org.ull.dap.app.models.users.User.setNameCryptos (  \mbox{List} < \mbox{String} \ > \ nameCryptos \ )
```

Sets name cryptos.

#### **Parameters**

```
nameCryptos the name cryptos
```

# 4.23.3.13 update()

Update.

**Parameters** 

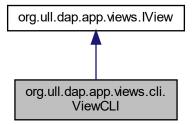
Implements org.ull.dap.app.models.users.IObserver.

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

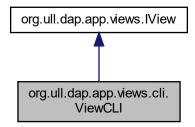
C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/mod java

# 4.24 org.ull.dap.app.views.cli.ViewCLI Class Reference

Inheritance diagram for org.ull.dap.app.views.cli.ViewCLI:



Collaboration diagram for org.ull.dap.app.views.cli.ViewCLI:



# **Public Member Functions**

- ViewCLI (CryptocurrencyNotifier model)
- void showSubscribers ()
- void showUsersAvailable ()
- List< String > getUsersSelected ()
- List< INotification > getNotifications ()
- void windowSelectCryptos ()

- · void showListCryptos ()
- String getUserComboBoxString ()

# 4.24.1 Detailed Description

The type View cli.

# 4.24.2 Constructor & Destructor Documentation

# 4.24.2.1 ViewCLI()

#### **Parameters**

model the model

# 4.24.3 Member Function Documentation

# 4.24.3.1 getNotifications()

```
\label{list_limit} {\tt List} < {\tt INotification} > {\tt org.ull.dap.app.views.cli.ViewCLI.getNotifications} \ (\ ) \\ {\tt Gets\ notifications}.
```

Returns

the notifications

Implements org.ull.dap.app.views.IView.

# 4.24.3.2 getUserComboBoxString()

```
String org.ull.dap.app.views.cli.ViewCLI.getUserComboBoxString ( )  \textbf{Gets user current}.
```

Returns

the user current

Implements org.ull.dap.app.views.IView.

# 4.24.3.3 getUsersSelected()

```
\label{list_string} List < {\tt String} > {\tt org.ull.dap.app.views.cli.ViewCLI.getUsersSelected} \ \ (\ ) \\ \textbf{Gets users selected}.
```

Returns

the users selected

Implements org.ull.dap.app.views.IView.

### 4.24.3.4 showListCryptos()

 $\label{local_view} \verb|void org.ull.dap.app.views.cli.ViewCLI.showListCryptos ()| Show list cryptos. \\$ 

# 4.24.3.5 showSubscribers()

 $\begin{tabular}{ll} void org.ull.dap.app.views.cli.ViewCLI.showSubscribers ( ) \\ Show subscribers. \end{tabular}$ 

#### 4.24.3.6 showUsersAvailable()

void org.ull.dap.app.views.cli.ViewCLI.showUsersAvailable ( )
Show users available.

#### 4.24.3.7 windowSelectCryptos()

```
void org.ull.dap.app.views.cli.ViewCLI.windowSelectCryptos ( )
```

Window select cryptos.

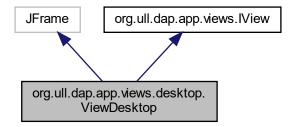
Implements org.ull.dap.app.views.IView.

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

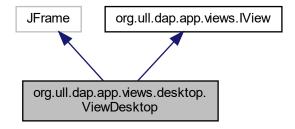
 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view CLI.java

# 4.25 org.ull.dap.app.views.desktop.ViewDesktop Class Reference

Inheritance diagram for org.ull.dap.app.views.desktop.ViewDesktop:



Collaboration diagram for org.ull.dap.app.views.desktop.ViewDesktop:



#### **Public Member Functions**

- ViewDesktop (CryptocurrencyNotifier model)
- JButton getBtnLogin ()
- JList< String > getListUsers ()
- JPanel getPanelLogin ()
- void windowSelectCryptos ()
- JComboBox< String > getComboBoxUsersSelected ()
- String getUserComboBoxString ()
- List< String > getUsersSelected ()
- List< INotification > getNotifications ()
- void setUsersSelected (List< String > usersSelected)
- void setDashboardDesktop (DashboardDesktop)
- DashboardDesktop getDashboardDesktop ()
- void enableButtons (String nombre, boolean tipo)

# **Static Public Attributes**

• static final String ROUTE\_IMAGE\_LOGO = "/images/logo\_app.png"

# 4.25.1 Detailed Description

The type View desktop.

# 4.25.2 Constructor & Destructor Documentation

# 4.25.2.1 ViewDesktop()

```
\label{lem:condition} {\tt org.ull.dap.app.views.desktop.ViewDesktop.ViewDesktop.ViewDesktop.} \\ {\tt CryptocurrencyNotifier} \ {\tt model} \ )
```

Instantiates a new View desktop.

### **Parameters**

model	the model

# 4.25.3 Member Function Documentation

# 4.25.3.1 enableButtons()

Enable buttons.

#### **Parameters**

nombre	the nombre
tipo	the tipo

# 4.25.3.2 getBtnLogin()

```
{\tt JButton\ org.ull.dap.app.views.desktop.ViewDesktop.getBtnLogin\ (\ )} \\ {\tt Gets\ btn\ login.}
```

Returns

the btn login

# 4.25.3.3 getComboBoxUsersSelected()

 ${\tt JComboBox} < {\tt String} > {\tt org.ull.dap.app.views.desktop.ViewDesktop.getComboBoxUsersSelected} \ \ (\ ) \\ {\tt Gets\ combo\ box\ users\ selected}.$ 

Returns

the combo box users selected

# 4.25.3.4 getDashboardDesktop()

 $\begin{tabular}{ll} DashboardDesktop & org.ull.dap.app.views.desktop.ViewDesktop.getDashboardDesktop & ( ) \\ Gets & dashboard & desktop. \\ \end{tabular}$ 

Returns

the dashboard desktop

# 4.25.3.5 getListUsers()

```
{\tt JList}<{\tt String}>{\tt org.ull.dap.app.views.desktop.ViewDesktop.getListUsers} ( ) Gets list users.
```

Returns

the list users

#### 4.25.3.6 getNotifications()

```
\label{list_list} {\tt List} < {\tt INotification} > {\tt org.ull.dap.app.views.desktop.ViewDesktop.getNotifications} \ (\ ) \\ {\tt Gets\ notifications}.
```

Returns

the notifications

Implements org.ull.dap.app.views.IView.

# 4.25.3.7 getPanelLogin()

```
\label{login.power} \begin{tabular}{ll} $\tt JPanel\ org.ull.dap.app.views.desktop.ViewDesktop.getPanelLogin () \\ $\tt Gets\ panel\ login. \end{tabular}
```

Returns

the panel login

# 4.25.3.8 getUserComboBoxString()

```
String org.ull.dap.app.views.desktop.ViewDesktop.getUserComboBoxString ( ) Gets user combo box string.
```

Returns

the user combo box string

Implements org.ull.dap.app.views.IView.

# 4.25.3.9 getUsersSelected()

```
\label{list_string} List < String > org.ull.dap.app.views.desktop.ViewDesktop.getUsersSelected () \\ \textbf{Gets users selected}.
```

Returns

the users selected

Implements org.ull.dap.app.views.IView.

# 4.25.3.10 setDashboardDesktop()

```
\label{top:point} \begin{tabular}{ll} void org.ull.dap.app.views.desktop.ViewDesktop.setDashboardDesktop ( \\ & DashboardDesktop \ dashboardDesktop ) \end{tabular} Sets dashboard desktop.
```

**Parameters** 

```
dashboardDesktop the dashboard desktop
```

# 4.25.3.11 setUsersSelected()

```
\label{lem:condition} \mbox{void org.ull.dap.app.views.desktop.ViewDesktop.setUsersSelected (} \\ \mbox{List} < \mbox{String} > usersSelected )
```

Sets users selected.

# **Parameters**

usersSelected th	he users selected
------------------	-------------------

# 4.25.3.12 windowSelectCryptos()

void org.ull.dap.app.views.desktop.ViewDesktop.windowSelectCryptos ( )

Window select cryptos.

Implements org.ull.dap.app.views.IView.

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

 C:/Users/fabri/Documents/Fabrizzio/Universidad/6\_curso/DAP/Proyecto\_Final/CryptoNotfier/src/main/java/org/ull/dap/app/view Desktop.java

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