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User

-serialVersionUID : long
-userName : String
-albumList : ArrayList<Album>
-tagTypeList : ArrayList<String>

+getUserName()
+setUserName(String)
+getAlbumList()
+setAlbumList(ArrayList<Album>)
+getTagTypeList()
+setTagTypeList(ArrayList<String>)

DataSet

-serialVersionUID: long
-filePath: String
-user_list : ArrayList<User>

+save(DataSet)
+load(): DataSet
+getUser_list():ArrayList<User>
+setUser_list(ArrayList<User>)

Photos

+data : DataSet
+currentUser : User
+currentAlbum : Album

+start(Stage)
+main(String[])

AdminController

-Create : Button
-Delete : Button
-NewUser : TextField
-userlist : ListView<String>
-admin_logout : Button
~dataset : DataSet

+start()
-loadUser(ListView<String>)
+CreateUser(ActionEvent)
+DeleteUser(ActionEvent)
+Logout(ActionEvent)

Album

-serialVersionUID : long
-album_name : String
-photoList : ArrayList<Photo>

+getAlbum_name()
+setAlbum_name(String)
+getPhotoList()
+setPhotoList(ArrayList<Photo>)

AlbumMainPageController

-BackButton : Button
-AddPhotoButton : Button
-DeletePhotoButton : Button
-CaptionOrRecaptionButton : Button
-CaptionOrRecaptionConfirmButton : Button
-CaptionOrRecaptionCancel : Button
-AddTagButton : Button
-AddTagConfirmButtion : Button
-AddTagCancel : Button
-DeleteTagButton : Button
-LogoutButton : Button
-AlbumFunctionPane : AnchorPane
-AddTagPane : AnchorPane
-CaptionOrRecaptionPane : AnchorPane
-CaptionText : Label
-CaptionEditText : TextField
-NewTagKey : TextField
-NewTagValue : TextField
-TagList : ListView<Tag>
-ChosenPhotoPane : BorderPane
-ThumbnailScroll : ScrollPane
-ThumbnailPane : TilePane
-LeftSlideButton : Button
-RightSlideButton : Button
-DateLabel : Label
-CopyButton : Button
-MoveButton : Button
-AlbumName : Label
-tagChoice : ChoiceBox<String>
-dataset : DataSet
~currentUser : User
-currentImageidx : int
-previousImageidx : int
-images : ArrayList<ImageView>
-currentAlbum : Album
~chosen : ColorAdjust
~NotChosen : ColorAdjust

+start()
-loadPhoto(Album)
-AddImageIntoPane(ImageView, String)
+ClickOnBack(ActionEvent)
+AddPhoto(ActionEvent)
+Refresh()
+FillCaption()
+ShowImage()
+SlideLeft()
+ShowDate()
+SlideRight()
+DeletePhoto(ActionEvent)
+CaptionOrRecaption(ActionEvent)
+AddTag(ActionEvent)
+DeleteTag(ActionEvent)
+Logout(ActionEvent)
+AddTagConfirmation(ActionEvent)
+ShowTag()
+CaptionOrRecaptionConfirmation(ActionEvent)
+AddTagCancel(ActionEvent)
+CaptionOrRecaptionCancel(ActionEvent)
+ClickOnCopy(ActionEvent)
+ClickOnMove(ActionEvent)
+initialize(URL, ResourceBundle)

UserMainController

-delete : Button
-rename : Button
-create : Button
-search_with_date : Button
-search_with_tags : Button
-user_main_album_list : ListView<String>
-LogoutButton : Button
-renameConfirm : Button
-user_main_border_pane : BorderPane
-createAlbumPane : AnchorPane
-renameAlbumPane : AnchorPane
-searchDatePane : AnchorPane
-searchTagPane : AnchorPane
-new_album_name : TextField
-albumOldName : TextField
-albumNewName : TextField
-dateStart : DatePicker
-dateEnd : DatePicker
-dateSearch : Button
-tagType1 : ChoiceBox<String>
-tagType2 : ChoiceBox<String>
-andOr : ChoiceBox<String>
-tagVal1 : TextField
-tagVal2 : TextField
-searchWithTagBtn : Button
-resultAlbumCreateBtn : Button
-resultCancel : Button
-resultNewAlbum : TextField
-resultScrollPane : ScrollPane
-resultTilePane : TilePane
-resultAnchorPane : AnchorPane
~dataset : DataSet
~currentUser : User
~searchResult : ArrayList<Photo>
~resultImageView : ArrayList<ImageView>

+start()
+loadAlbum(ListView<String>)
+confirm_create(ActionEvent)
+delete_album(ActionEvent)
+rename_album(ActionEvent)
+searchTag()
+ToResultPage()
+cancelSearchResult()
+createResultAlbum()
+searchDate()
+calToLocaldate(Calendar)
+loadPhoto(ArrayList<Photo>)
-AddImageIntoPane(ImageView)
+Logout(ActionEvent)
+createAlbum(ActionEvent)
+renameAlbum(ActionEvent)
+searchWithDate(ActionEvent)
+searchWithTag(ActionEvent)
+initialize(URL, ResourceBundle)
+elementClicked(MouseEvent)

LoginController

-Enter : Button
-Username : TextField
+data : DataSet
+currentUser : User

+ClickEnterButton(ActionEvent)

Photo

-serialVersionUID: Long
-path: String
-date: Calendar
-caption: String
-TagList: ArrayList<Tag>

+AddTag(Tag)
+DeleteTag(Tag)
+Recaption(String)
+getPath()
-setPath(String)
+getCaption()
+setCaption(String)
+getdate()
+getTagList()
+setTagList(ArrayList<Tag>)

Tag

-serialVersionUID: Long
-tagKey: String
-tagVal: String

+getTagKey()
+setTagKey(String)
+getTagVal()
+setTagVal(String)
+toString()