

-dataDir:String  +createUser(name:String):boolean +deleteUser(String name):void +getUsers():ObservableList <string> -Admin():Admin</string>	-earliest:Photo  -latest:Photo  +Album(name:String,photos:ArrayList <photo>):Album -resetRange():void +Album(name:String):Album +setName(name:String):void +getName():String +getEarliest():Calendar +getLatest():Calendar -contains(photo:Photo):boolean +contains(path:String):Photo +getPhoto(path:String):Photo +getPhotos():ObservableList<photo> +addPhoto(photo:Photo):boolean +removePhoto(path:String):void +equals(obj:Object):boolean +isEmpty():boolean +toString():String  **SetMana</photo></photo>	name:String erialVersionUID:long  User (name:String):User getName():String renameAlbum(from:String,to:String):boolean getAlbums():ObservableList <album> contains(albumName:String):boolean getAlbum(albumName:String):Album addPhoto(albumName:String,path:String):boolean removePhoto(albumName:String,path:String):void addTag(name:String,value:String,path:String):void addTag(name:String,value:String,path:String):void addAlbum(albumName:String,path:String):void addAlbum(albumName:String):boolean addAlbum(albumName:String):boolean addAlbum(albumName:String):boolean addAlbum(albumName:String):void search(begin:String,end:String):void search(begin:String,end:String):observableList<photoseapthoto(from:string,to:string,path:string):boolean< td=""><td>ean oid ):void +switchToAlbum(e +addTag(e:Action ):boolea  oto&gt;</td><td>ng  ame:String,albumName:String,path:String e:ActionEvent):void</td><td>albumName:TextField -user:User -photos:ArrayList<phot +addalbum(e:actioneven<="" +setfield(username:str="" +switchtouser(e:action="" td=""><td><pre>ing,photos:List<photo>):void Event):void</photo></pre></td><td><pre>imageList:ListView<photo> tagText:TextField startDate:TextField endDate:TextField -user:User -results:ObservableList<photo>  +setField(username:String):void +switchToCreateAlbum(e:ActionEvent):void +switchToUser(e:ActionEvent):void</photo></photo></pre></td><td><pre>albumName:TextField -oldName:String -user:User  +setField(username:String,album:String):void +switchToUser(e:ActionEvent):void +renameAlbum(e:ActionEvent):void</pre></td></phot></td></photoseapthoto(from:string,to:string,path:string):boolean<></album>	ean oid ):void +switchToAlbum(e +addTag(e:Action ):boolea  oto>	ng  ame:String,albumName:String,path:String e:ActionEvent):void	albumName:TextField -user:User -photos:ArrayList <phot +addalbum(e:actioneven<="" +setfield(username:str="" +switchtouser(e:action="" td=""><td><pre>ing,photos:List<photo>):void Event):void</photo></pre></td><td><pre>imageList:ListView<photo> tagText:TextField startDate:TextField endDate:TextField -user:User -results:ObservableList<photo>  +setField(username:String):void +switchToCreateAlbum(e:ActionEvent):void +switchToUser(e:ActionEvent):void</photo></photo></pre></td><td><pre>albumName:TextField -oldName:String -user:User  +setField(username:String,album:String):void +switchToUser(e:ActionEvent):void +renameAlbum(e:ActionEvent):void</pre></td></phot>	<pre>ing,photos:List<photo>):void Event):void</photo></pre>	<pre>imageList:ListView<photo> tagText:TextField startDate:TextField endDate:TextField -user:User -results:ObservableList<photo>  +setField(username:String):void +switchToCreateAlbum(e:ActionEvent):void +switchToUser(e:ActionEvent):void</photo></photo></pre>	<pre>albumName:TextField -oldName:String -user:User  +setField(username:String,album:String):void +switchToUser(e:ActionEvent):void +renameAlbum(e:ActionEvent):void</pre>	
Photo	+m +w +r +e	movePhoto(from:String,to:String,path:String):boole writeUser():void readUser(name:String):User equals(obj:Object):boolean toString():String		er	CreateUserCo	ntroller	EditCaptionController		
path:String	<pre>+quit(ActionEvent e):void +getAlert(title:String, header:String, content:String):void -switchScene(e:ActionEvent, fxml:String) +switchToAdmin(e:ActionEvent):void +switchToLogin(e:ActionEvent, username:String):void +switchToCoreateUser(e:ActionEvent):void +switchToCreateAlbum(e:ActionEvent):void +switchToRenameAlbum(e:ActionEvent, username:String, photos:List<photo>):void +switchToAlbum(e:ActionEvent, username:String, albumname):void +switchToAddTag(e:ActionEvent, username:String, albumName:String, photo:Photo):void +switchToAddTag(e:ActionEvent, username:String, albumName:String, path:String):void +switchToEditCaption(e:ActionEvent, username:String, albumName:String, path:String, caption:String):void +switchToCopyPhoto(e:ActionEvent, username:String, albumName:String, path:String):void +switchToMovePhoto(e:ActionEvent, username:String, albumName:String, path:String):void +switchToSearch(e:ActionEvent, username:String, albumName:String, path:String):void +switchToSearch(e:ActionEvent, username:String, albumName:String):void +switchToSlideShow(e:ActionEvent, username:String, albumName:String):void</photo></pre>		<pre>imageList:ListView<photo> tagList:ListView<list<string>&gt; -modelImage:SelectionModel<photo> -modelTag:SelectionModel<list<string>&gt; captionText:Text dateText:Text albumText:Text -user:User -album:Album -albumPhoto:Photo  +setField(username:String,albumName:String,photo:Photo):void -refresh():void -imageDetail():void +switchToAddPhoto(e:ActionEvent):void +deletePhoto(e:ActionEvent):void +switchToUser(e:ActionEvent):void +switchToEditCaption(e:ActionEvent):void +switchToCopyPhoto(e:ActionEvent):void +switchToMovePhoto(e:ActionEvent):void +switchToMovePhoto(e:ActionEvent):void +switchToSlideShow(e:ActionEvent):void +switchToSlideShow(e:ActionEvent):void</list<string></photo></list<string></photo></pre>		username:TextField		captionText:TextField -albumName:String	UserController	
<pre>-tags:HashMap<string,linkedlist<string>&gt; -caption:String -Photo(path:String,cal:Calendar,tags:HashMap<string,linkedlist<string>&gt;,caption:String):Photo +Photo(path:String):Photo +getPath():String +getCal():Calendar</string,linkedlist<string></string,linkedlist<string></pre>					+addUser(e:ActionEvent):void		-path:String  +setField(username:String,albumName:String,path:String):void +switchToAlbum(e:ActionEvent):void +editCaption(e:ActionEvent):void	<pre>albumList:ListView<album> userText:Label -user:User -model:SelectionModel<album>  +setField(username:String):void</album></album></pre>	
<pre>+addTag(name:String, value:String):boolean +removeTag(name:String, value:String):void +getTags():HashMap<string, linkedlist<string="">&gt; +getTagList():ObservableList<list<string>&gt; +setCaption(caption:String):void +getCaption():String +equals(obj:Object):boolean +compareTo(other:Photo):int +toString():String</list<string></string,></pre>								-refresh():void +delete(e:ActionEvent):void +switchToAlbum(e:ActionEvent):void +switchToCreateAlbum(e:ActionEvent):void +switchToRenameAlbum(e:ActionEvent):void +switchToSearch(e:ActionEvent):void	
			+switchToAddTag(e:ActionEr+deleteTag(e:ActionEvent)						
Photos	CopyPhotoController	MovePhotoController		LoginController		AdminController	SlideShowController		
	<pre>albumList:ListView<album> -user:User -album:Album</album></pre>	-user:User -album:Album		username:TextField		<pre>listView:ListView<string> -model:SelectionModel<string></string></string></pre>	nextB:Button		
start(primaryStage:Stage) nain(args:String[]):void	<pre>-path:String model:SelectionModel<album>  +setField(username:String,albumName:String,path:String): +switchToAlbum(e:ActionEvent):void</album></pre>	+switchToAlbum(e:ActionEvent):void		+login(e:ActionEvent):void		<pre>+initialize():void +delete(e:ActionEvent):void</pre>	<pre>prevB:Button imageView:ImageView -album:ObservableList<photo> -index:int -a:Album -u:User</photo></pre>		
	+copyPhotoTag(e:ActionEvent):void	+movePhoto(e:ActionEvent):void			Tuerete (e: ActionEvent): void		+setField(username:String,album:String):vo: -setButtons():void +previousImage(e:ActionEvent):void +nextImage(e:ActionEvent):void +switchToAlbum(e:ActionEvent):void	id	

CreateAlbumController

SearchController

RenameAlbumController

AddTagController

Admin

Album

User