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| **Tag** |
| -serialVersionUID: long  -key: String  -value: String |
| +Tag(String, String)  +Tag(Tag)  +getKey(): String  +setKey(): String  +getValue(): String  +setValue(): void  +equals(): Boolean  + clone(): Object |

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| **Photo** |
| -serialVersionUID: long  -url: String  -caption: String  +tags: ArrayList<Tag>  +lastModifiedDate: Date |
| +Photo(String)  +Photo(String, String)  +Photo(String String, Date)  +Photo(Photo)  +addTags(): void  +getSpecificTag(): Tag  +toString(): String  +getUrl(): String  +setUrl(): void  +getCaption(): String  +setCaption(): String  +setDate(): void  +getDate(): Date  +clone(): Object |

Adds type>>

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| **User** |
| -serialVersionUID: long  -userName: String  +tagType: ArrayList<String>  +albums: Arraylist<Album> |
| +User(String)  +setUserName(): void  +getUserName(): String  +toString(): String  +addAlbum(): void  +getAlbum(): ArrayList<Album>  +getSpecificAlbum(): Album |

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| **Album** |
| -serialVersionUID: long  -albumName: String  +photos: ArrayList<Photos> |
| +Album(String)  +getAlbumName(): String  +setAlbumName(): String  +getPhotos(): ArrayList<Photo>  +setPhotos(): void  +getIdxPhotos(): int  +getPhotoWithIndex(): Photo  +getIndex(): int  +getSpecificPhoto(): Photo |

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| **ManageUser** |
| -USERINFO\_SER: String  -serialVersionUID: String  -instance: ManageUser  1  -user: User  +arryList: ArrayList<User> |
| -ManageUser()  +getInstance(): ManageUser  +getUserList(): ArrayList<User>  +setUserList(): void  +addUserList(): void  +isEmpty(): boolean  +getUser():User  +checkUserToLogin(): boolean  +conductSerializing(): void  +conductSerializing(): void |

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| **SeachHelper** |
| +getAlbum: ArrayList<Album>  +getPhoto: ArrayList<Photo> |
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<<photo/album

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| **PhotoAlbumController** |
| -mgUser: ManageUser  -currentAlbum: Album  -currentUser: User  -tempPhoto: Photo  -tempAlbum: Album  -userName: String  -tmpStage: Stage  -searchResult: boolean  +arrlist: ArrayList<Photo>  -obs: ObservableList<Photo> |
| -addToArrayList(): void  -setOnListView():void  -duplicationCheck(): boolean  +initialize(): void  +start(): void  1 |

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| --- |
| **PhotoController** |
| -tmpStage: Stage  -mgUser: ManageUser  -currentUser: User  -currentAlbum: Album  -currentPhoto: Photo  -tempPhoto: Photo  -searchResult: boolean  -idx: int  -FORMAT: SimpleDateFormat  -obs: ObservableList<Tag>  +options: Observable<String> |
| -addToArrayList(): void  -setOnListView(): void  -duplicationCheck(): boolean  +start(): void |

<<Uses

Photo/album>>

<<Uses

Uses>>

Instance>>

Open/close

Uses>>

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<<Uses

<<Uses

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| **AlbumController** |
| -tmpStage: Stage  -mgUser: ManageUser  -currentUser: User  -userName: String  -obs: Observable<User> |
| -addToArrayList(): void  -setOnListView():void  -duplicationCheck(): boolean  +initialize(): void  1  +start(): void |

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access

Has Access to>>

Uses for Album>>

Uses for Photo>>

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Has access to>>

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Searches from

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| **Photos** |

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| **LoginController** |
| +mgUser: ManageUser |
| + start(): void |

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| **AdminController** |
| -mgUser: User  -obs: Observable<User> |
| -addToArrayList(): void  -setOnListView():void  -duplicationCheck(): boolean  +initialize(): void  +start(): void |

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| --- |
| **SearchController** |
| -tmpStage: Stage  -mgUser: ManageUser  -currentUser: User  -currentAlbum: Album  -userName: String  -windowFromAlbum: boolean  -obs: ObservableList<Photo>  +searched: ArrayList<Photo> |
| -selectdateSMethod(): void  -selectSearchMethod(): void  -setDisableMethod(): void  +start(): void  +initialize(): void |

<<Uses

<<Uses

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<<Logout

Login/out

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Login/logout

<<Uses

Starts>>

<<Has access tocess to

Searches from

<<Has Access to

Uses >>

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By:

Drew DeCaro

Jaehyun Kim