# Model

## Album

- serialVersionUID
- name
- photos

---

+ Album
+ getName
+ setName
+ getPhotos
+ getPhotoAtIndex
+ setPhotos
+ addPhoto
+ removePhoto
+ hasPhoto
+ getPhotoByPath
+ toString
+ equals
+ getDateRange

## Photo

- path
- caption
- dateTime
- tags

---

+ Photo
+ getPath
+ getCaption
+ getDate
+ getTags
+ setCaption
+ getDateTime
+ addTag
+ removeTag
+ displayOn
+ getDescription

## Tags

- tags

---

+ Tag
+ toString
+ getPairs
+ add
+ remove

## Data Manager

- THUMBNAIL_WIDTH
- THUMBNAIL_HEIGHT
+ instance
- loggedInUser
- openedAlbum
- selectedPhotoIndex
- users
- searchResults

---

- DataManager
+ getInstance
+ readUsers
+ writeUsers
+ isUsernameTaken
+ getUser
+ addUser
+ removeUser
+ updateUserListView
+ logIn
+ logOut
+ getCurrentUserAlbums
+ getAllPhotos
+ displayAlbumsOn
+ displayAlbumInfoOn
+ hasAlbum
+ addAlbum
+ renameAlbum
+ removeAlbum
+ openAlbum
+ getOpenedAlbumName
+ hasPhoto
+ setCaption
+ addPhotoToOpenedAlbum
+ removeSelectedPhoto
+ displaySelectedPhotoOn
+ nextPhoto
+ previousPhoto
+ getSelectedPhotoIndex
+ displayThumbnailsOn
+ displayCreatableTagsOn
+ hasTag
+ addTagToSelectedPhoto
+ displayUnopenedAlbumsOn
+ displayDeletableTagsOn
+ deleteTagFromSelectedPhoto
+ copySelectedPhotoToAlbum
+ closeAlbum
+ prepareSearchResults
+ displayAllTagTypesOn
+ filterSearchResultsByDateRange
+ filterSearchResultsByOneTag
+ filterSearchResultsByTwoTagsAnd
+ filterSearchResultsByTwoTagsOr
+ exportSearchResultsToAlbum