

UserList

- + users: List<String> + currentUser: User
- + allUsernames: List<String>
- + initializeUserList(): void
- + isValidUsername(username: String): boolean + usernameExists(username: String): boolean
- + login(username: String): boolean
- + usersOverLimit(): boolean
- + addUser(username: String): boolean
- + deleteUser(username: String): boolean
- + writeToFile(): void
- + writeToFile2(): void
- + readFromFile(): void
- + readFromFile2(): void

User

- + isAdmin: boolean + isStock: boolean + username: String + albums: List<Album>
- + User(username: String)
- + getAllAlbumsStr(exceptMe: String): List<String>
- + isValidAlbum(albumName: String): boolean
- + albumNameExists(albumName: String): boolean
- + albumsOverLimit(): boolean
- + createAlbum(albumName: String): boolean
- + getAlbumObject(albumName: String): Album
- + deleteAlbum(albumName: String): boolean
- + renameAlbum(oldAlbumName: String, newAlbumName: String): boolean
- + searchByTags(stringTags: List<String>): List<Photo>
- + searchByDateRange(start: String, end: String): List<Photo>
- + searchByCaption(caption: String): List<Photo>
- + searchByFileLocation(fileLocation: String): List<Photo>
- + createAlbumFromSearch(myPhotos: List<Photo>, albumName: String): boolean
- + getAlbumPhotoExistsIn(myPhoto: Photo): String

Album

- + name: String + photos: List<Photo>
- + Album(name: String)
- + calendarToString(date: Calendar): String
- + getEarliestDate(): String + getLatestDate(): String
- + isValidCaption(caption: String): boolean
- + photosOverLimit(): boolean
- + addPhoto(fileLocation: String, caption: String): boolean
- + isValidFileLocation(fileLocation: String): boolean
- + getPhotoObject(id: `UUID): Photo + removePhoto(id: UUID): boolean
- + sortPhotosByCaption(): void
- + sortPhotosByDate(): void

Photo

- + id: UUID
- + caption: String
- + date: Calendar
- + tags: List<Tag>
- + fileLocation: String
- + Photo(caption: String, tags: List<Tag>, fileLocation: String)
- + Photo(caption: String, fileLocation: String)
- + getDate(): String
- + getAllTagsStr(): List<String>
- + tagExists(tagName: String, tagValue: String): boolean
- + isValidTagValue(tagValue: String): boolean
- + tagsOverLimit(): boolean
- + addTag(tagName: String, tagValue: String): boolean
- + editTag(oldTagName: String, oldTagValue: String, newTagName: String, newTagValue: String): boolean
- + deleteTag(tagName: String, tagValue: String): boolean
- + updateCaption(caption: String): boolean
- + copyPhoto(toAlbumName: String): boolean
- + movePhoto(fromAlbumName: String, toAlbumName: String): boolean

Tag

+ tagName: String + tagValue: String + photos: List<Photo>

+ Tag(tagName: String, tagValue: String) + removePhotoFromTagList(photo: Photo): boolean

Constant

- + MAX_LENGTH: int + MAX_USERS: int + MAX_ALBUMS: int + MAX_PHOTOS: int + MAX_TAGS: int







