FileHandler

+ findPath(fileName:String): file

- find(fileName: String, currentDirectory: File): File

Database

- storeDir: File

- storeFile: String

- adminUsername: String

- adminPassword: String

- admin: User

- stock: User

- initStartingDate(): void

+ saveCurrentDatabase(): DBStatus

+ loadDatabase(): DBStatus

- writeFile(db: Database): void

- readFile(): Database

+ deleteUser(user: User): boolean

+ addUser(user: User): boolean

+ authorize(username: String, password: String): boolean

- getUser (String username): User

+ exists(user: User): boolean

+ isAdmin(user: User): boolean

+ getAlbum(user: User, Album album): Album

+ addAlbum(User user, Album album): DBStatus

+ deleteAlbum(user: User, album: Album): DBStatus

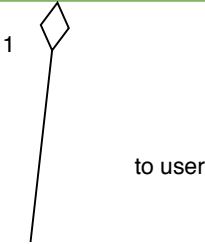+ addPhoto(user: User, album: Album, photo:Photo): DBStatus

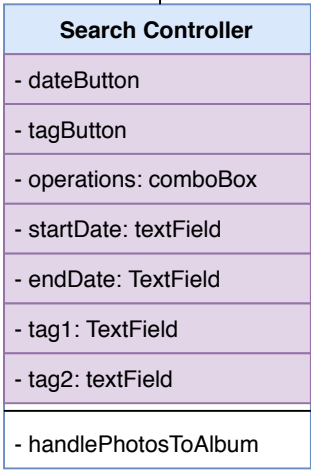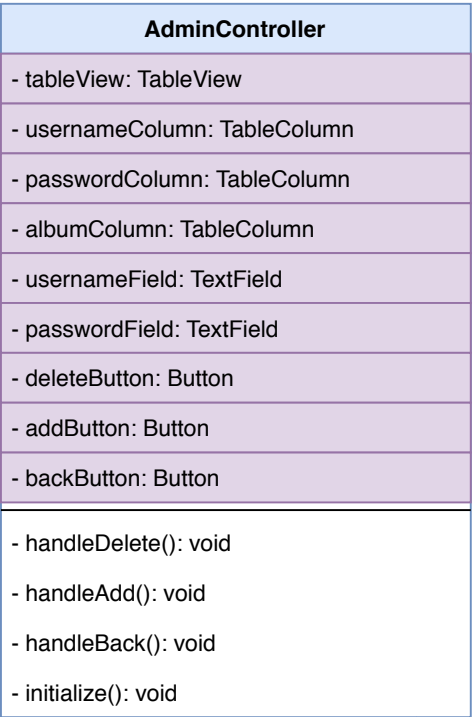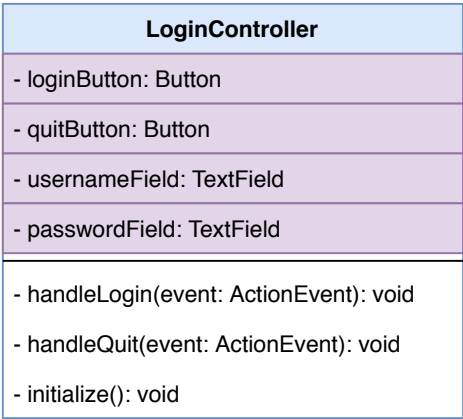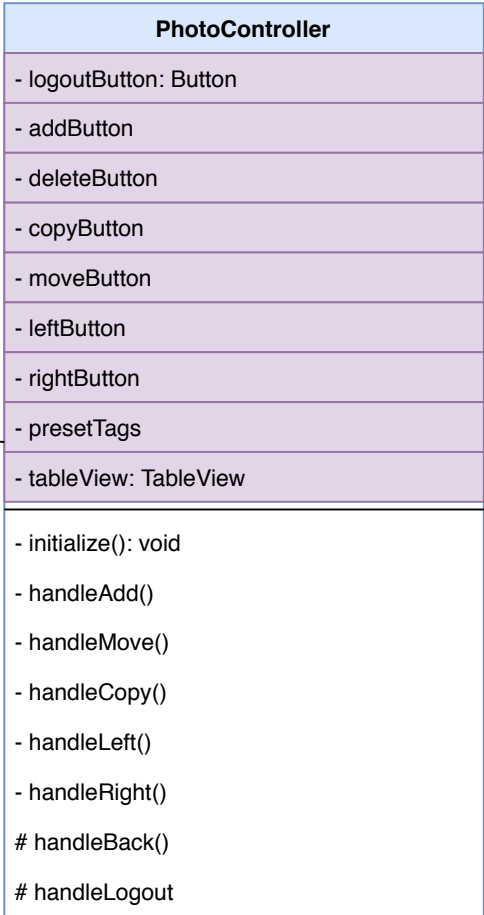+ searchByTag (user:User, tag:Tag): List<Photo>

+ searchByTagConjunctive(user: User, tag1: Tag, tag2:Tag): List<Photo>

+ searchByTagDisjunctive(user: User, tag1: Tag, tag2: Tag): List<Photo>

+ searchByDate(user:User, start: Calendar, finish: Calendar): List<Photo>

this arrow should not be here, but is a
bug from the program I'm using

1

to user

PhotoController

- logoutButton: Button
- addButton
- deleteButton
- copyButton
- moveButton
- leftButton
- rightButton
- presetTags
- tableView: TableView

- initialize(): void
- handleAdd()
- handleMove()
- handleCopy()
- handleLeft()
- handleRight()
- # handleBack()
- # handleLogout

LoginController

- loginButton: Button
- quitButton: Button
- usernameField: TextField
- passwordField: TextField

- handleLogin(event: ActionEvent): void
- handleQuit(event: ActionEvent): void
- initialize(): void

AdminController

- tableView: TableView
- usernameColumn: TableColumn
- passwordColumn: TableColumn
- albumColumn: TableColumn
- usernameField: TextField
- passwordField: TextField
- deleteButton: Button
- addButton: Button
- backButton: Button

- handleDelete(): void
- handleAdd(): void
- handleBack(): void
- initialize(): void

Search Controller

- dateButton
- tagButton
- operations: comboBox
- startDate: textField
- endDate: TextField
- tag1: TextField
- tag2: textField

- handlePhotosToAlbum

all goes to Controller

frm database

2..*

User

+ username: String

- password: String

- albums: List<Album>

- createdTags: List<Tag>

+ getAlbums(): List<Album>

+ setAlbums(List<Album>): void

+ getUsername(): String

+ getPassword(): String

+ getNumAlbums(): int

+ compareUsernames(toCompare: User): int

+ comparePassword(toCompare:User): int

+ sameUser(toCompare: User): boolean

+ getCreatedTags():List<tags>

+ getCreatedTag(Tag tag): tag

Albums

+ name: String

- photos: List<Photo>

- creationDate: Calendar

+ dateModified: String

+ getPhotos(): List<Photos>

+ addPhoto(photo: Photo): void

+ setPhotos(photos: List<Photo>): void

+ getName(): String

+ getNumPhotos(): int

+ getDateModified: String

+ format(calendar:Calendar): String

+ updateDate(): void

+ setName(name: String): void

+ compareName(toCompare: Album): void

*

contains

*

created Tags

*

Tag

+ name

+ value

+ allowMultiple: bool

*

tagged with

*

Photos

+ caption: String

+ dateModifed

- directory: String

- tags: List<Tag>

AlbumController

- welcomeNote: Label
- addButton: Button
- deleteButton: Button
- searchButton: Button
- backButton: Button
- tableView: TableView
- nameColumn: TableView
- numColumn: TableView
- dateColumn: TableView
- optionsColumn: TableView

- initialize(): void
- handleCellFactrory(): void
- handleSearch(): void
- handleAdd(): void
- handleEdit(): void
- handleView(): void
- handleDelete(): void
- handleBack(): void

arrows from Admin, Login, and Photo Controller

<<Abstract>> Controller

adminScene: String
loginScene: String
albumScene: String
photoScene: String
searchScene: String
currentUser: User
currentAlbum: Album
db: Database

initData(currentUser: User, currentAlbum: Album, Database db): void
setData(currentUser: User, currentAlbum: Album, Database db): void
getDatabase(): DBStatus
handleQuit(): void
changeScene(stage:Stage, String fxmlFile): void
showWarning(message: String): boolean
showError(message: String): void
showSuccess(message: String): void
handleDBStatus(status: DBStatus): void
removeWhitespaces(s:String): String