«interface» Serializable

«interface» Cloneable

Tag

- allTags: ArrayList<Tag>
- name: String

+ Tag(name: String)
+ getName(): String
+ clone(): Tag

+ getAllTags(): ArrayList<Tag>
+ addTagToAllTags(tagName: String): void
+ deleteTagFromAllTags(tagName: String): void

«interface» Iterable<T>

ImageFile

- name: String
- path: String
- tagManager: TagManager
- nameLog: ArrayList<String>
- allNames: ArrayList<String>
- originalName: String
- initialDot: int

+ ImageFile(path: String)
+ getName(): String
+ getPath(): String
+ getInitialDot(): int
+ setName(): void
+ setName(name: String): void
+ getTagManager(): TagManager
+ getImageType(): String
+ setPath(): void
+ setPathToNewDirectory(directory: String): void
+ getAllNames(): ArrayList<String>
+ getNameLog(): ArrayList<String>
+ revertToPreviousState(): void

TagManager

- tags: ArrayList<Tag>
- tagsVersions: TreeMap<Integer, ArrayList<Tag>>
- keyValue: int

+ TagManager()
+ addTag(tagName: String): void
+ setTags(tagArrayList: ArrayList<Tag>): void
+ deleteTag(tagName: String): void
+ addTagsVersion(): void
+ getTagsVersions(): TreeMap<Integer, ArrayList<Tag>>
+ iterator(): Iterator<Tag>

«interface» Iterator<T>

TagManagerIterator

- index: int

+ hasNext(): boolean
+ next(): Tag

ImageFileManager

- imageFiles: ArrayList<ImageFile>

+ ImageFileManager()

+ findImages(directoryPath: String): ArrayList<ImageFile>
+ getImageFiles(): ArrayList<ImageFile>
+ moveImageFile(imageFile: ImageFile): void
+ moveImageFile(imageFile: ImageFile, directory: String): void
- changeName(newFileName: String, oldFileName: String): void

ReadWrite

- folderName: String
- tagDatabase: String
- serImageFiles: String

+ ReadWrite()

+ createInitialFiles(): void
+ addTagToDatabase(tagName: String): void
+ getAllTagsFromDatabase(): ArrayList<Tag>
+ removeTagFromDatabase(tagName: String) void
+ serializeImageFiles(imageFiles: ArrayList<ImageFile>): void
+ deserializeImageFiles(): ArrayList<ImageFile>

Controller

- view: View

+ Controller(view: View)
+ enterStartAction(directoryText: TextField): void
+ addTagAction(tagName: TextField): void
+ imageButtonAction(imageFileClicked: Button): void
+ moveFileAction(newDirectory: TextField): void
+ revertFileAction(textField: TextField): void
+ deleteTagAction(tagToBeDeleted: TextField): void
+ addTagToTagDatabaseAction(tagName: textField): void
+ deleteTagFromTagDatabaseAction(tagName: textField): void
+ retrieveTagFromTagDatabaseAction(tagName: textField): void
+ addTagToHZone(): void
+ moveFileToHZone(): void
+ revertFileToHZone(): void
+ deleteTagToHzone(): void
+ selectTagToHzone(): void
+ goBackButton(): void
+ goBackSelectButton(): void
+ goBackRevertButton(): void

«interface»
EventHandler<T extends Event>

«abstract»
Application

Extends

View

- enterButton: Button
- addZoneButton: Button
- moveFileButton: Button
- revertLogsButton: Button
- deleteZoneButton: Button
- selectZoneButton: Button
- backButton: Button
- makeNewTagButton: Button
- deleteTagButton: Button
- selectBackButton: Button
- revertBackButton: Button
- selectAddTagButton: Button
- selectRetrieveTagButton: Button
- selectDeleteTagButton: Button
- moveFileTagButton: Button
- revertLogTagButton: Button
- enterText: TextField
- newTagNameText: TextField
- deleteTagNameText: TextField
- selectTagNameText: TextField
- moveFileText: TextField
- revertLogText: TextField
- stage: Stage
- firstScene: Scene
- newScene: Scene
- input: FileInputStream
- image: Image
- imageSelected: Image
- imageView: ImageView
- imagePanel: ImageView
- buttonChoiceList: ArrayList<Button>
- allImages: ArrayList<ImageFile>
- imagePanelBox: Pane
- listOfImages: VBox
- previousFileNames: VBox
- previousTagUnivNames: VBox
- tagsPanelBox: HBox
- actionZone: HBox
- ZoneHBox: HBox
- scrollableListOfImages: ScrollPane
- scrollableListOfTags: ScrollPane
- imageAndActionPanel: SplitPane
- controller: Controller
- sidePanel: SplitPane
- imageListCanvas: Canvas
- imageSelectListCanvas: Canvas
- currentImage: ImageFile

+ start(primaryStage: Stage): void
+ getCurrentImageFile(imagePressed: Button): ImageFile
+ getCurrentImage(): ImageFile
+ getNewName(): String
+ changeCanvas(canvasString: String): void
+ setActionTime(display: Label, mode: String): void
+ setImagePanel(image: ImageFile): void
+ setBackToAction(): void
+ setSelectRevertBackToAction(): void
+ setRevertToPreviousAction(): void
+ setMoveFileButton(): void
+ setSelectZoneButton(): void
+ setAddZoneButton(): void
+ setNewTag(addTag: String): void
+ setDeleteZoneButton(): void
+ setRemoveTag(removeTag: String): void
+ setRetrieveFromSelectTag(retrieveTag: String) void
+ setRemoveFromSelectTag(removeUniversalTag: String): void

+ setRemoveFromSelectTag(removeUniversalTag: String): void
+ setAddFromSelectTag(addTag: String): void
+ setRevertBackFile(newName: String, changeScroll: boolean): void
+ setMoveFileTag(moveFilePath: String): void
+ setFirstWindow(): void
+ listOfImagesMethod(filePathDirectory: String): void
+ handle(event: ActionEvent): void

+ <u>main(args: String[])</u>