CS213

Assignment 3: Photos

Group number: 19
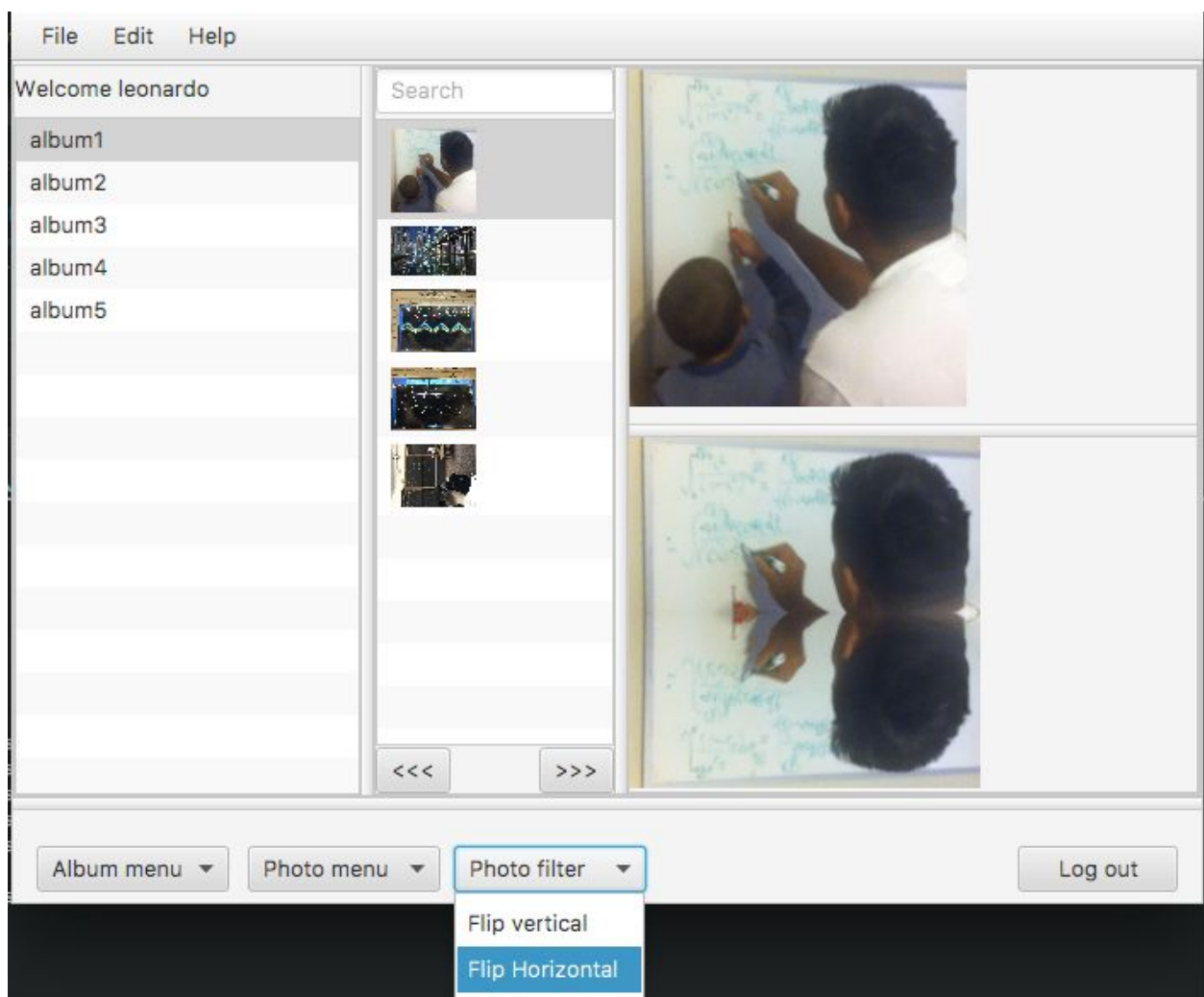
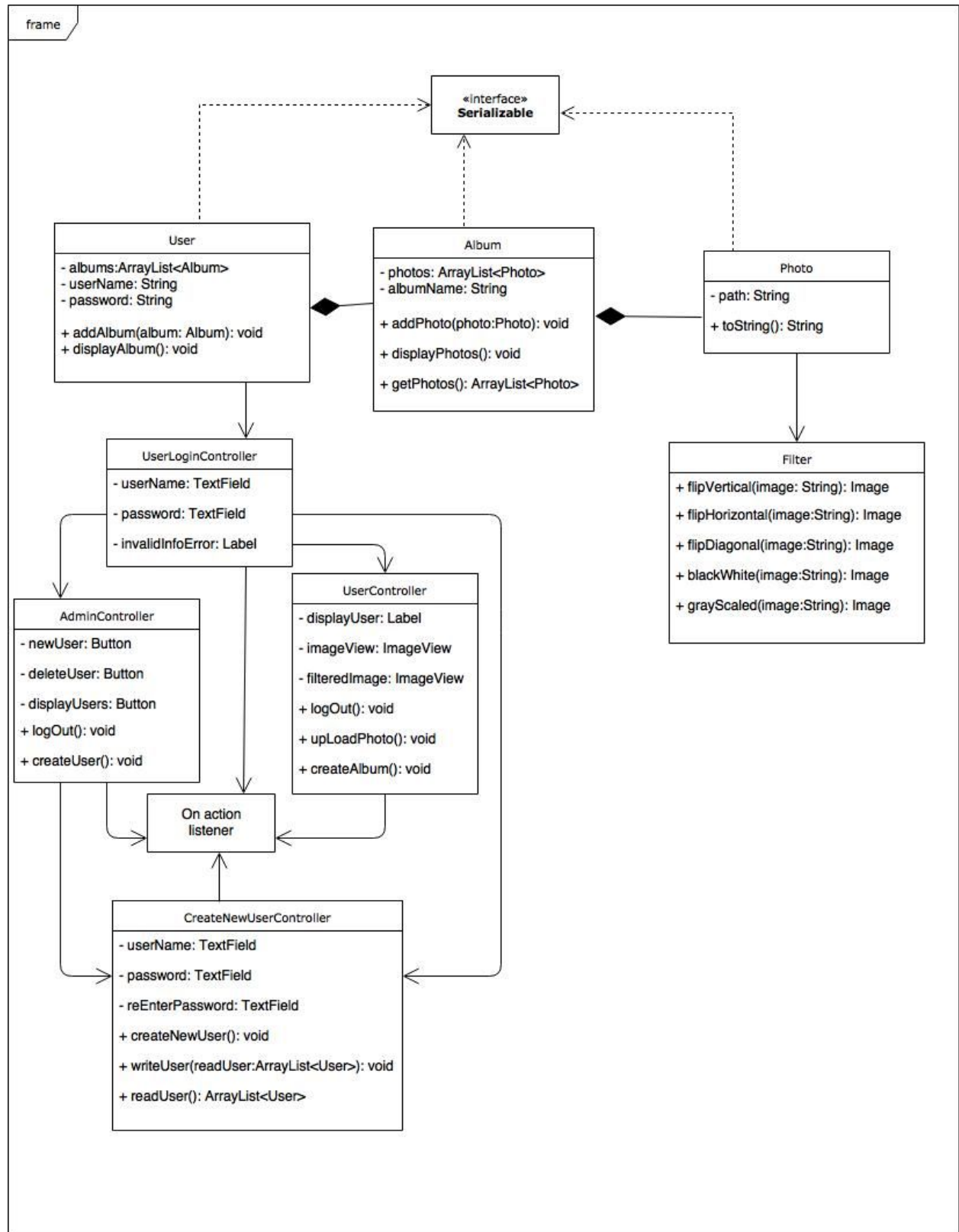Members: Leonardo Roman, Parth Bhatt

Purpose

The purpose of this assignment is to design and implement a photo application that will allow users to create user account to store and manage photos and albums of photos. Photo application functionality is focused on MVC programing design.
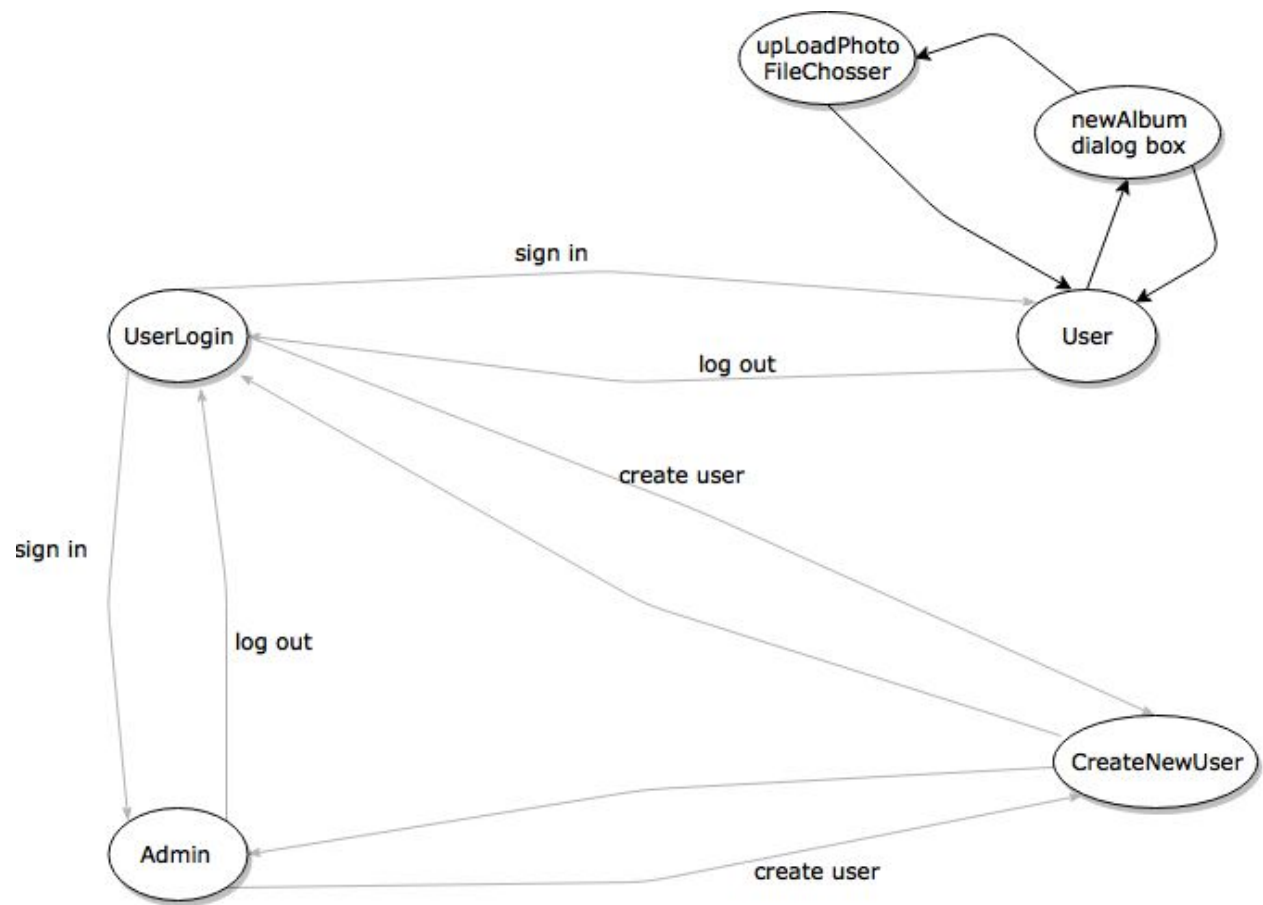
Extra credit

A special feature was added to the application. The user has an option to filter a photo of choice. The filtered photo is to be displayed underneath the original photo display. Filter option was implemented in a different class and offers 5 different filters but more can be added if desired by the designer.

UML Diagram

frame

«interface»
Serializable

User

- albums:ArrayList<Album>
- userName: String
- password: String

+ addAlbum(album: Album): void
+ displayAlbum(): void

Album

- photos: ArrayList<Photo>
- albumName: String

+ addPhoto(photo:Photo): void

+ displayPhotos(): void

+ getPhotos(): ArrayList<Photo>

Photo

- path: String

+ toString(): String

UserLoginController

- userName: TextField

- password: TextField

- invalidInfoError: Label

Filter

+ flipVertical(image: String): Image

+ flipHorizontal(image:String): Image

+ flipDiagonal(image:String): Image

+ blackWhite(image:String): Image

+ grayScaled(image:String): Image

AdminController

- newUser: Button

- deleteUser: Button

- displayUsers: Button

+ logOut(): void

+ createUser(): void

UserController

- displayUser: Label

- imageView: ImageView

- filteredImage: ImageView

+ logOut(): void

+ upLoadPhoto(): void

+ createAlbum(): void

On action
listener

CreateNewUserController

- userName: TextField

- password: TextField

- reEnterPassword: TextField

+ createNewUser(): void

+ writeUser(readUser:ArrayList<User>): void

+ readUser(): ArrayList<User>

GUI Storyboard

Work Split Document

Program UI's	Team Member
UserLogin	Leonardo Roman
User	Leonardo Roman
Admin	Parth Bhatt
CreateNewUser	Parth Bhatt