



COMP132 : Advanced Programming Programming Project Report

PhotoCloud App

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Part 1

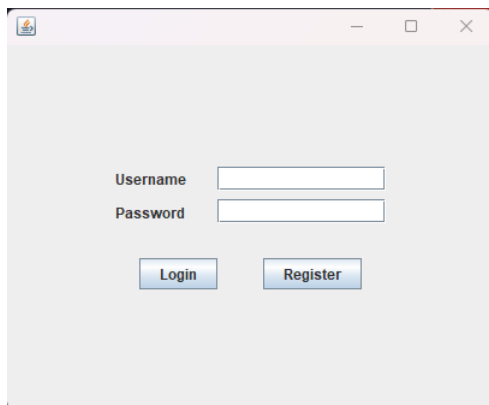
General Demo Information:

- Information about each user (Username, Password, User Type)
 1. Admin, Admin, Admin
 2. EmirhanS, emrs123, Professional
 3. BKarga, BahaKarga3765, Free
 4. witcher312, tossacoin, Professional
 5. Saraa, 123456789, Free
 6. trevor90, 19901990tr, Free
 7. Mhawkins21, MHawk192123, Professional
 8. pauvanas, paulavanas2001, Hobbyist
 9. DemirciUmut, UmutUmut123, Hobbyist

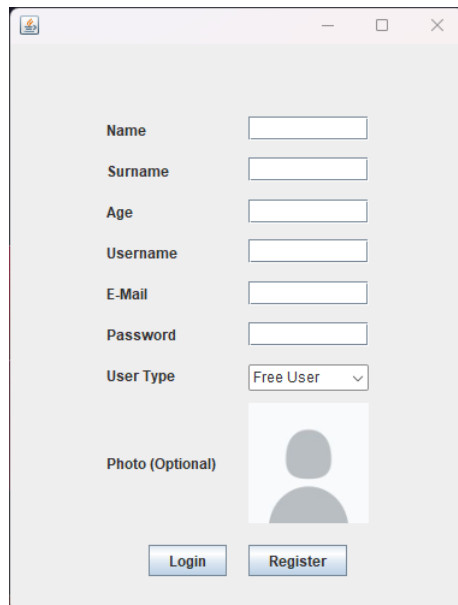
These are current users and all of them have more personal informations and they are stored in users.txt file in Project folder. They also have unique profile photos for each.

Application usage information *(In that part, describe how to use your application. You can add screenshots of the required steps that a user should follow.)*

- To start the application, you need to run the main method stored in the Main.java which stored in “./src/main/Main”.
- When you run the main code, you will see the login page. As shown in this photo, there are 2 options which you can login with your username and password or go to register page.

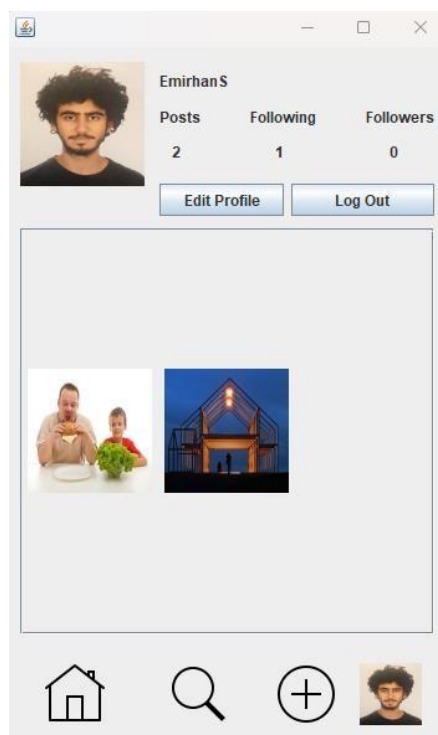


If you are a new user, you need to register. So, when you click register button you will see a page requesting some personal info and also username and password which you will use to log in. And if you accidentally go into this page, you can go back to login page with login button whenever you want.

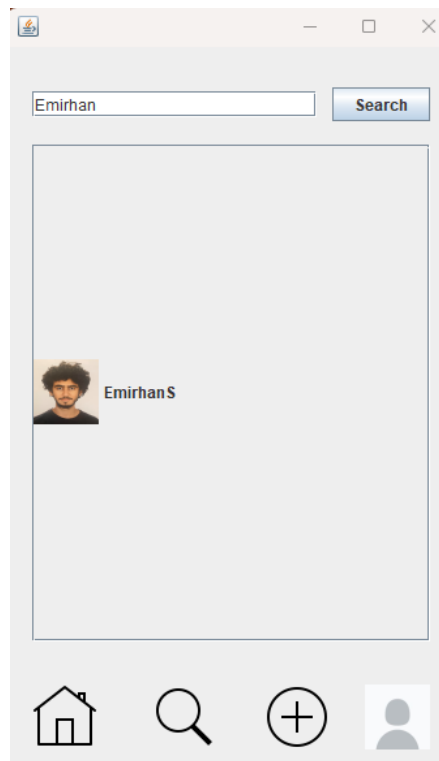
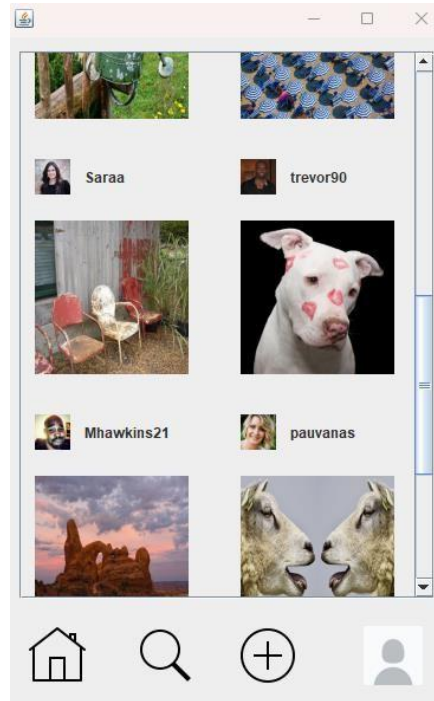
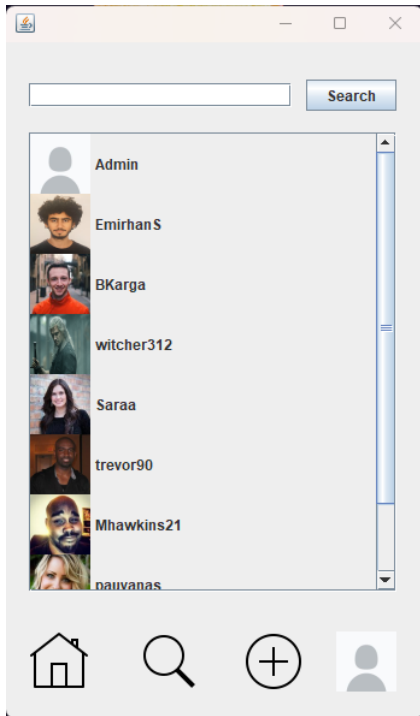


A screenshot of a registration form window. The form contains the following fields: Name, Surname, Age, Username, E-Mail, Password, and User Type (a dropdown menu currently showing 'Free User'). Below these fields is a 'Photo (Optional)' section with a placeholder image of a person. At the bottom of the form are two buttons: 'Login' and 'Register'.

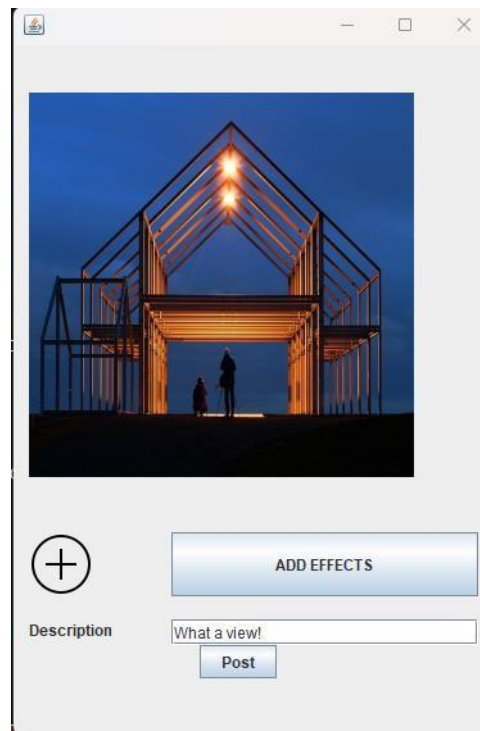
- When you log in, you will see your profile page. At this page you have multiple choices. From this page, you can go to Discover Page, Search Page. Also, you can upload photos and edit your profile from this page. And lastly, you can log out and go to login page again.



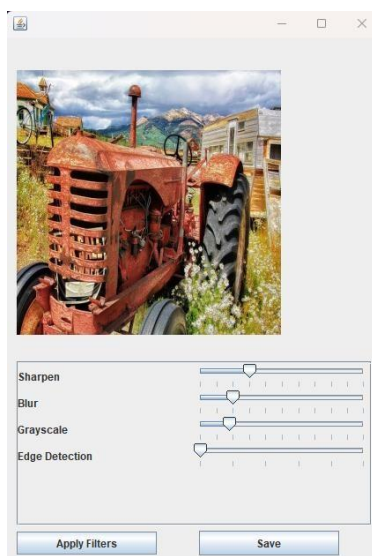
- Discover Page: In this page, you can see others uploaded photos and you can click whichever photo you want to see bigger and to like or dislike or send comment to the post.
- Search Page: In this page, you can see other people's profile and go into their profile. Also you can search people by their username.



- **Uploading Photos and Applying Filters:** In this application, you can upload photo from which page you want. You only need to click the plus button at the bottom and you are directed to Photo Upload page. In this page you will see another plus icon, an add effects button, a description field and a post button.
- To upload a photo, you only need to press plus icon and select which photo you want, type description if you want, add some effects if you want also and press post.



- **Add Effects Page:** In this page you can add effects to your photo within your user type's borders. After you choose which effect you want, you click apply effects, and then save button to save changes. There is an example of Hobbyist User adding effects to his photo:



- In this application, there is an Admin User which have permission to do everything he/she want. He/She can remove everyone's photos, comments and also he/she can change people's profile informations.

Part 2

Project Design Description:

- Files and Contents:

In application's code, there are 4 packages. Here are their names and their contents:

1. main: This package contains Main and UserDatabase files which starts program to work properly. UserDatabase creates new ArrayLists for users in every boot of program. Main creates a new user database and opens the login frame to start the program.
2. user: This package contains 4 sub-class and 1 super-class. The super-class is User class and sub-classes are Administrator, Free, Hobbyist, Professional. UserDatabase from main package uses the classes in this package to create ArrayList.
3. page: In this package, there are many GUI components. These are: LoginPage, RegisterPage, HomePage, SearchPage, EditProfilePage, PhotoPage, ProfileInfoPage. All of these pages services different pages with different variables.
4. image: This package contains the files which made the effects to photos.
5. userInfo: And lastly this userInfo folder have users post counts, follower counts, posts (as .png file), comments on these posts, likes and dislikes on these posts etc.

References

<https://docs.oracle.com/javase/tutorial/2d/images/saveimage.html>

<https://stackoverflow.com/questions/15053214/convertimg-an-imageicon-to-a-bufferedimage>

<https://www.javatpoint.com>

<https://netbeans.apache.org/>