**# Assignment -3 Photos**

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 \* Implement the code for Photos application using JAVAFX and FXML

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Run the program:

Open Visual Studio code IDE

Need to add extensions for Javafx, FXML and Gradle for Java.

Download javafx libraries and all required jar files to be added in reference library from javafx-sdk-22/lib

Open the project in VS code.

Go to the path src/photos/app/photo.java

Right click and then click on run java code.

Login screen will appear.

Add this line in launch.json file in the last block which says photos, path metioned here should be replaced by the correct path.

"vmArgs": " --module-path /Users/BANSARI/Downloads/Photos48/Photos48/javafx-sdk-22/lib --add-modules javafx.controls,javafx.fxml",

Photos.java file in the package photos.app is the starting points. On execution of this file, ./view/Login.fxml file is called and login screen appears.

**Login**

* When the application starts, a user can login in with username. No password is required.

**Admin Login**

* Username for admin user is ‘admin’. The **admin** user can then do any of the following:
  + List users
  + Create a new user
  + Delete an existing user

**Non-admin User**

* Once the user logs in successfully, all albums and photo information for this user from a previous session are loaded.
* The user can then do the following:
  + Create albums
  + Delete albums
  + Rename albums
  + Open an album. Once an album is open the user can do the following:
    - Add a photo
    - Remove a photo
    - Caption/re caption a photo
    - Display a
    - Add a tag to a photo
    - Delete a tag from a photo
    - Copy a photo from one album to another
    - Move a photo from one album (source) to another
    - Go through photos in an album in sequence forward or backward, one at a time, with user interaction (manual slideshow)
    - Search for photos by a date range.
    - Search for photos by tag type-value pairs.

**Logout**

* The user (whether admin or non-admin) logs out at the end of the session. All updates made by the user are saved to disk.
* After a user logs out, the application is still running, allowing another user to log in.