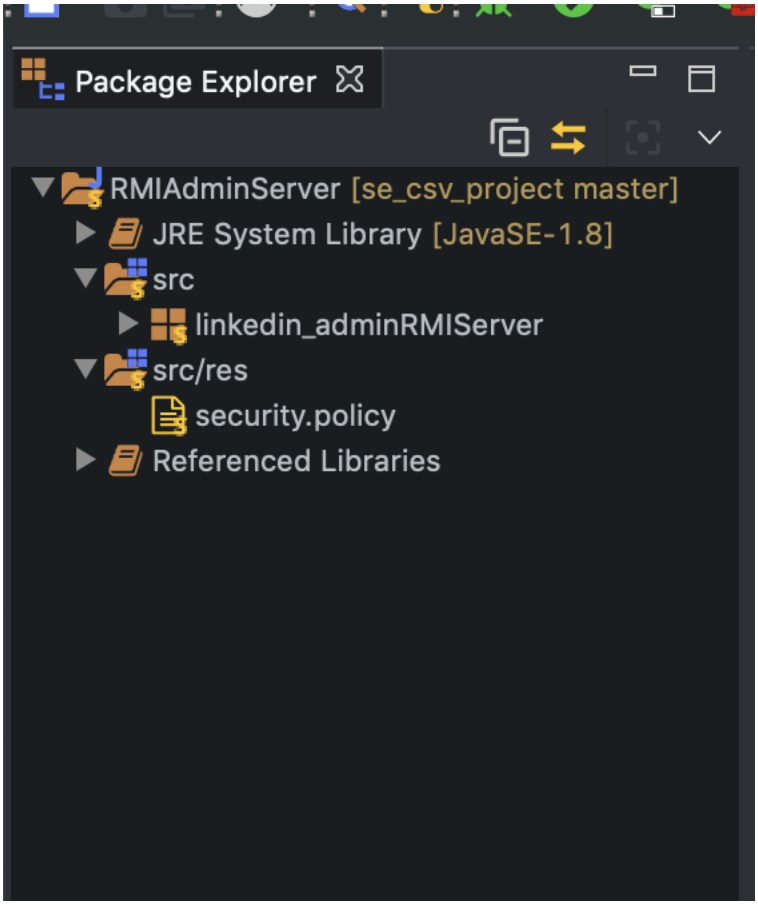
Admin RMI Setup (Eclipse)

The following program(s) can run from the command line or in Eclipse. Tito from the backend team already put up a great documentation on how to run RMI from the command line which is available in the super team repository. This documentation covers how to run the Admin RMI app from eclipse. The RMI server and the client application can run on the same machine or different machines which are **connected to the same network.** The RMI server connects to a MySQL database that runs locally on my computer. The URL is set in the admin_server class under the getDBConnection() method. Change the URL to your database's URL. I will also have instructions on how to setup MySQL database and import my dB schema if you would like to try my setup in which case you wont have to change the URL.

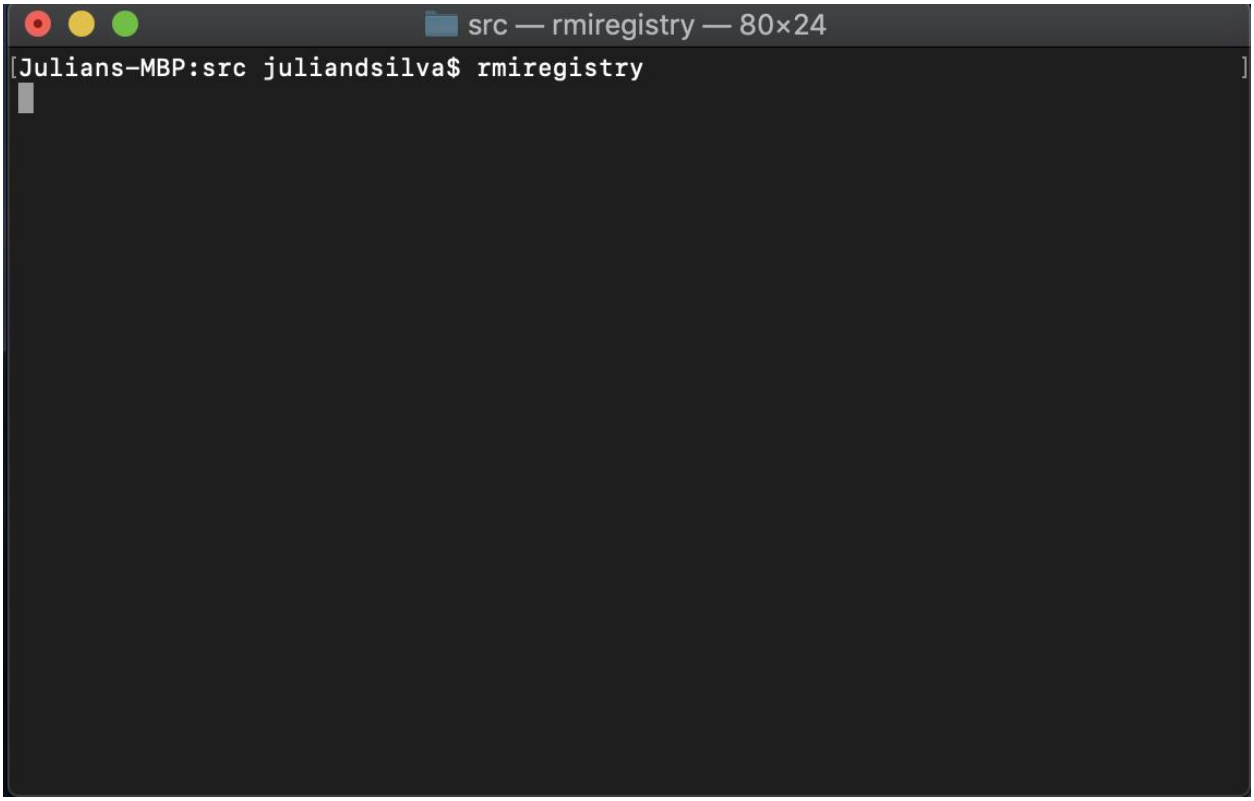
RMI Server:

1. Import the **RMIAdminServer** project into your eclipse workspace. The project should have the file structure as shown below.



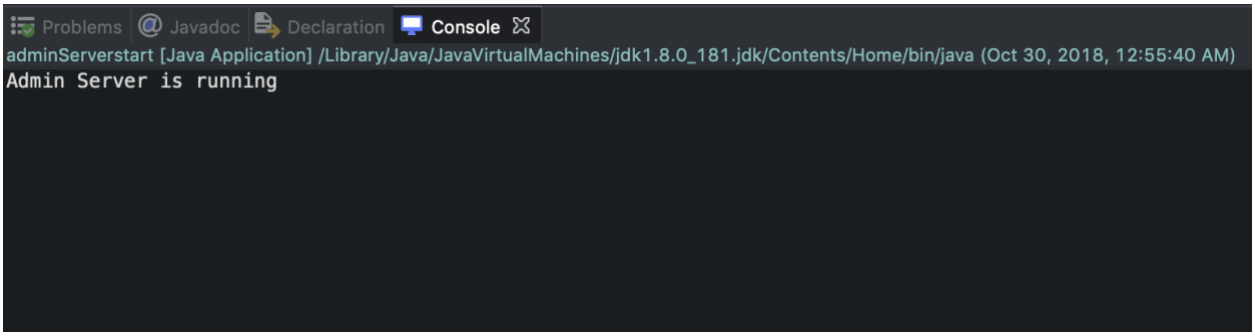
2. Open a terminal, use the cd command to go to the RMIAdminServer directory and then enter the src directory.
3. In the src directory, run the command "rmiregistry" (macos/linux) or "start rmiregistry" (windows).

4. MacOS after running the command show start the process as shown below. Go ahead and minimize the terminal. **DO NOT CLOSE IT.**



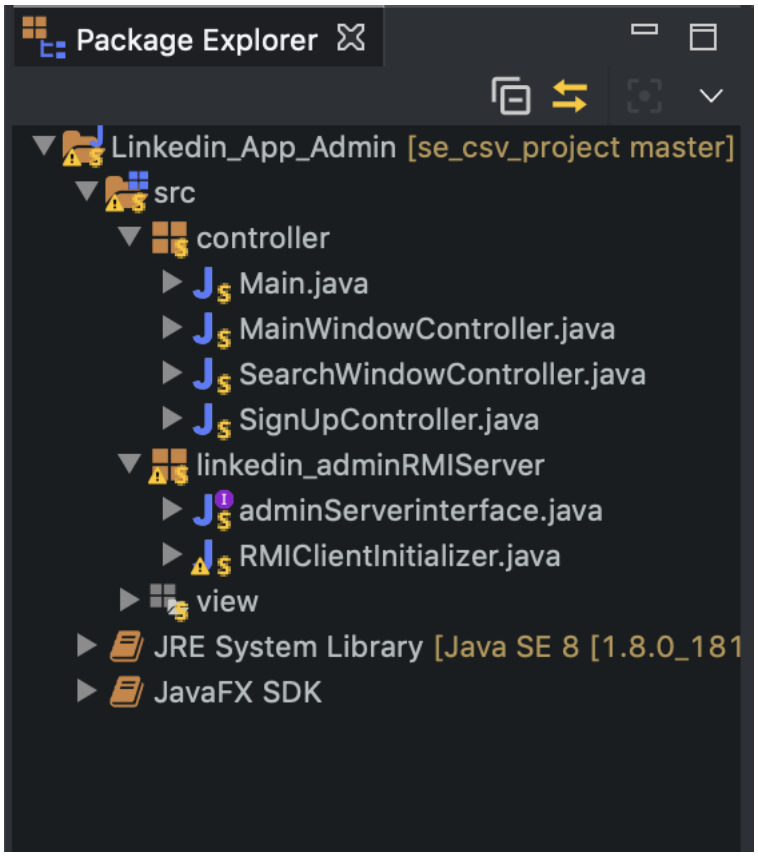
In Windows after running the command should open rmiregistry.exe like below. Minimize the rmiregistry.exe program.

5. Go back to eclipse and run adminServerstart.java.
6. If you are running the server on windows, the program will detect your windows OS and ask you to enter your network IP address. Open command prompt, type ipconfig and find your current network's IPV4 address and enter it into the console and press enter.
    a. On MacOS, there will be no message.
7. Now you should see the "Admin Server is running" message as shown below.

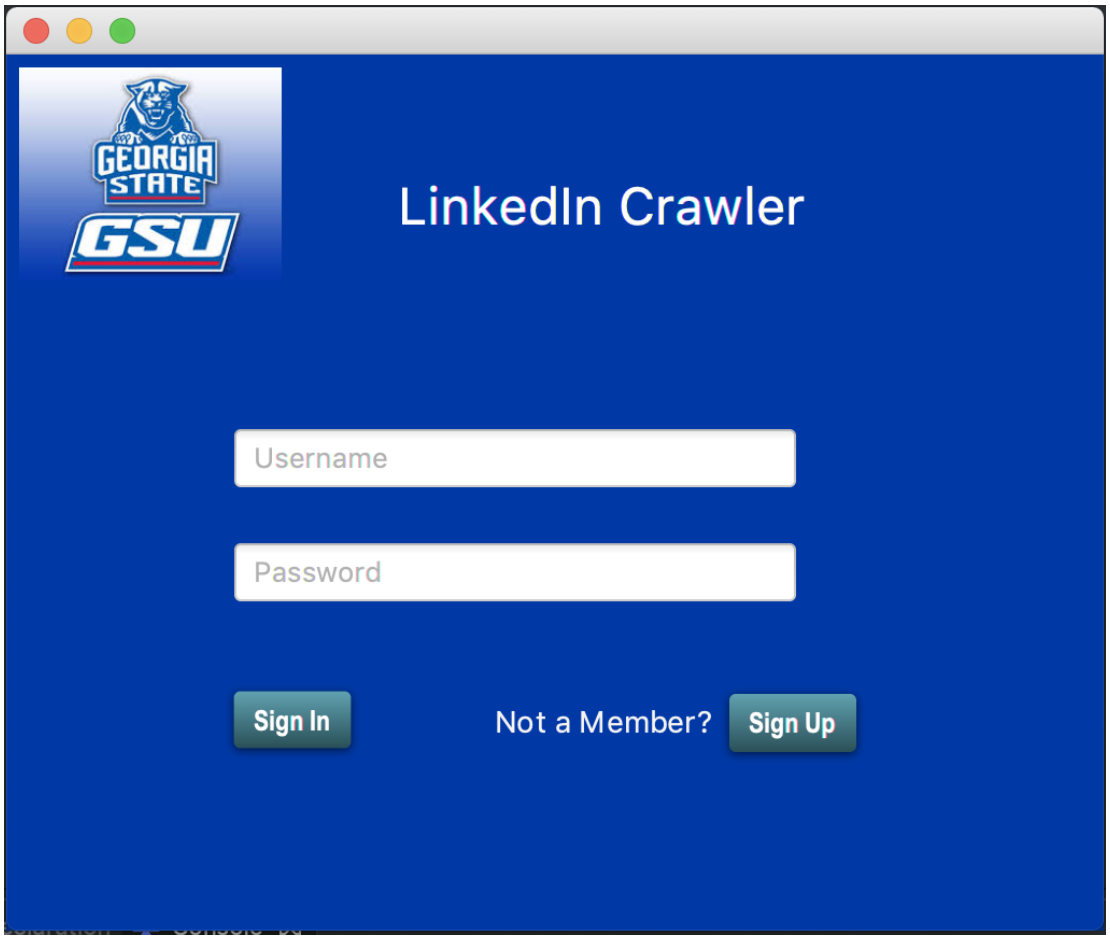


Client Application:

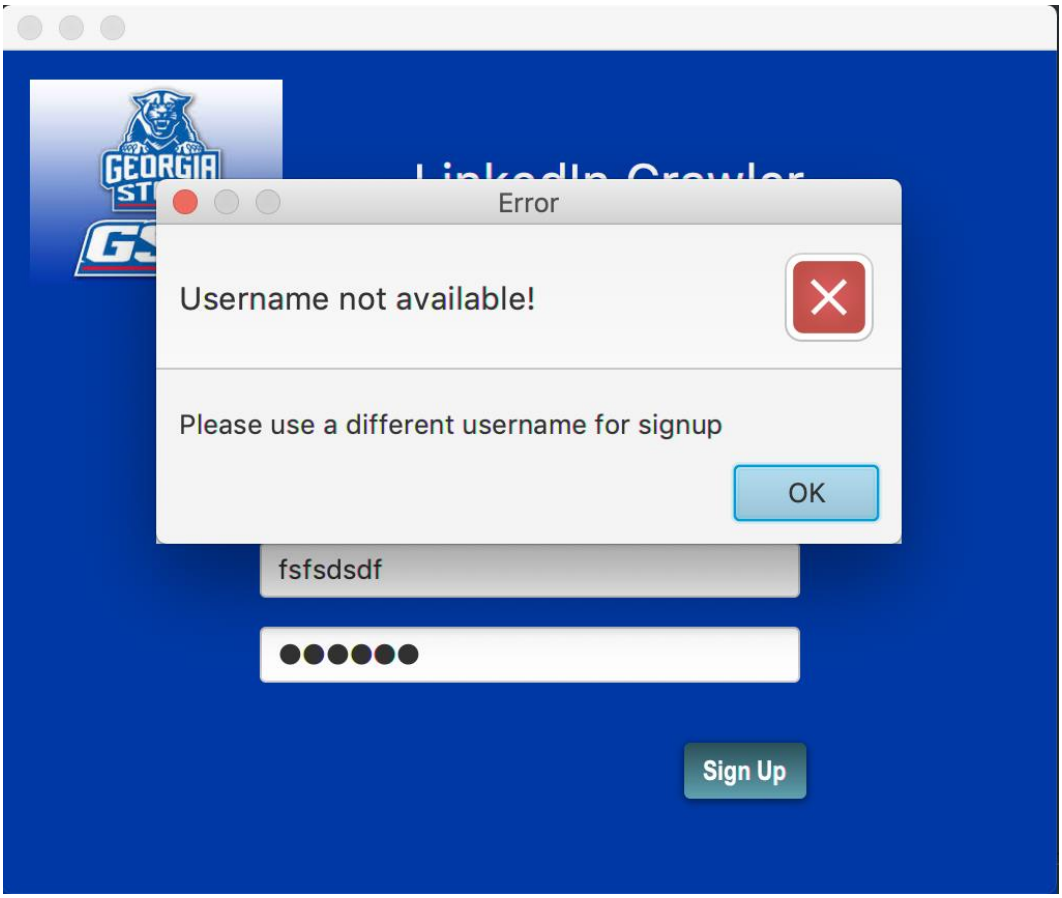
1. Import the Linkedin_App_Admin project to your client's eclipse workspace. The project should have the file structure as shown below.



2. Run the Main.java application and in the console it will ask for the RMI server's IP address.
3. Enter the IP address of the machine where the RMI server we setup earlier is running and press enter.
4. On windows the application should show up on the screen. On MacOs you should see a java program running on the application dock. Go ahead and click it and the application should display as below.

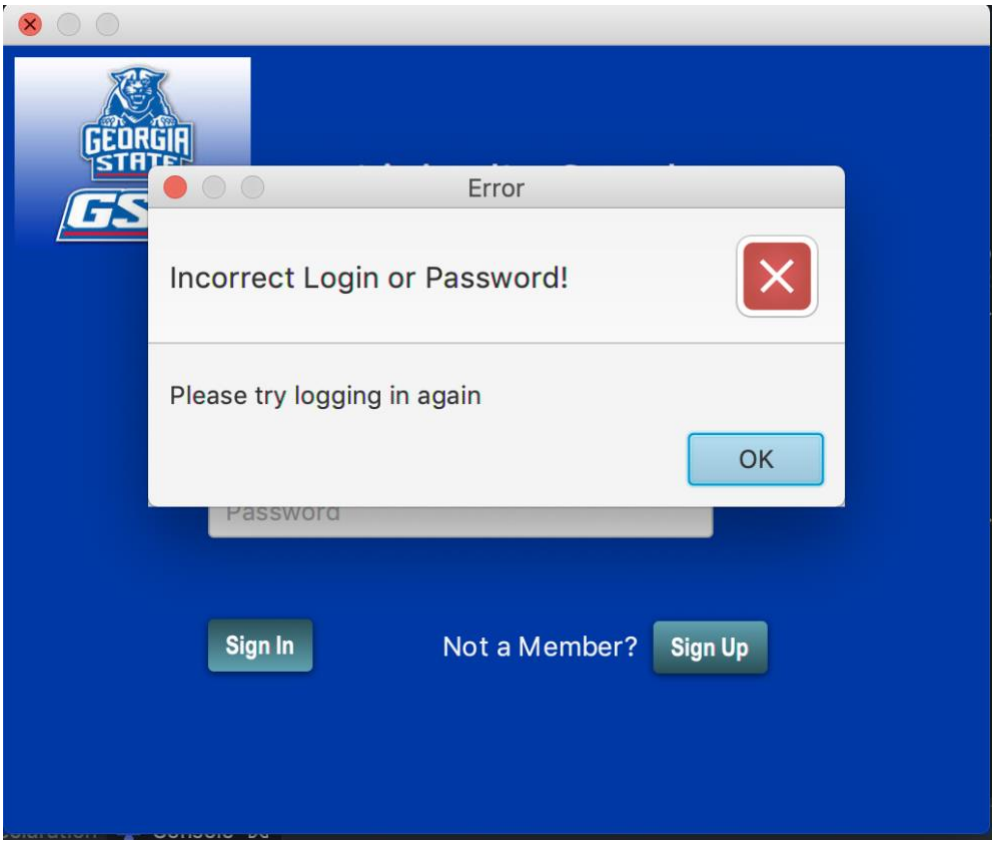


5. Click the Sign Up button and register a user. If the username is taken (already in the Database) you will get an error icon as shown below.



6. If username is available, registration successful message will appear on the console.

7. Run Main.java again to try the Sign In button.
8. If incorrect user credentials are entered, or they do no exist in the database then you will get the error message below.



9. If credentials are found in the database, then success message will be printed on the console.