MyFit Tracker – Workout Tracking Application

ITMD510 – Object Oriented Application Development

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ABSTRACT

In the world of fitness tracking applications, ease of use and practicality is crucial. The JavaFX-based Fitness Tracker Application focuses on a simplified client-view and admin functionalities. The application includes functionalities for both user and admin, providing user-friendly interfaces for workout management and progress tracking, as well as administrative tasks such as workout management, account deletion, and password reset.

Client Functionality:

Client-view provides access to users to manage their workouts and track progress. Users can add workouts based on predefined difficulty levels, enabling quick customization of exercise routines. Also, users can update their progress, monitor their fitness journey, and make informed adjustments to their workout plans.

Admin Functionality:

Admins have access to enhanced functionalities such as managing user data and monitor/update workouts. The admin interface allows administrators to view users' progress, providing insights into their fitness activities and performance. Admins can update or delete existing workouts, ensuring that the application's exercise database remains relevant and up to date.

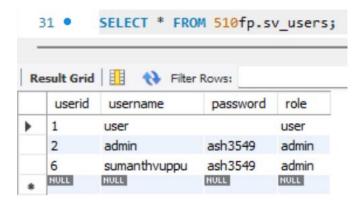
Moreover, administrators can manage user accounts such as deleting existing accounts and reset passwords for existing users demonstrating the update functionality in Admin View.

Conclusion:

The application offers a simple UI for fitness tracking. With further optimization, we can deliver a seamless and rewarding experience for both users and administrators, promoting health and wellness in the digital age.

User Information and Application Workflow Description

Admin and User Credentials:

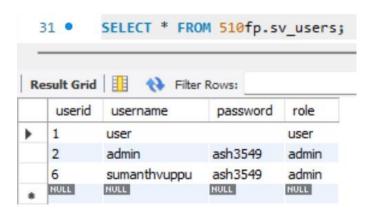


Application Initial Workflow Description:

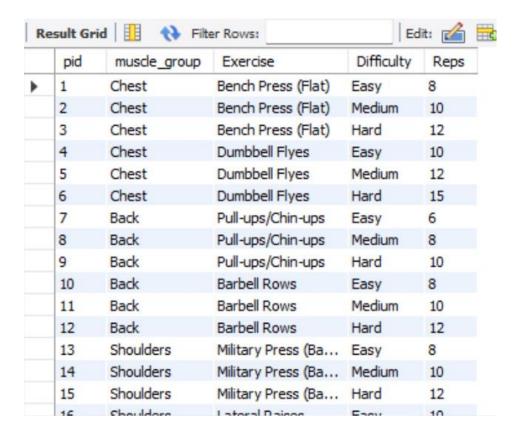
Application begins with the Main class which has Login View. Upon giving the inputs for username and password, credentials are authenticated and if the role is user "ClientView" is opened else "Admin View" is opened.

3. Tables from DB:

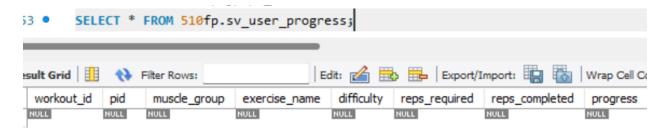
3.1. User Table:



3.2 Workouts Table:



3.3 User Progress Table:

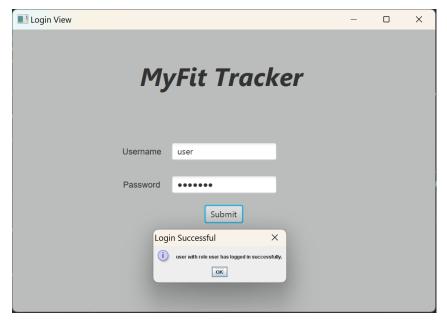


pid is the foreign key reference from sv_workouts table.

Rows for sv_user_progress will be added during runtime.

Screenshots from Application

4.1. Login View: Successful login of regular user



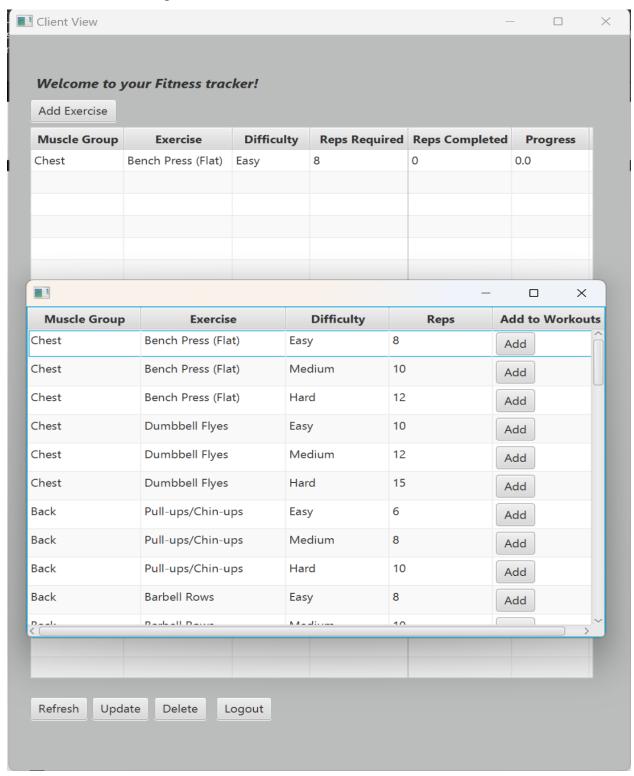
4.2.User View: Add 10 rows to DB.

Step1: Before adding any rows:



Step2: Click on Add Exercise

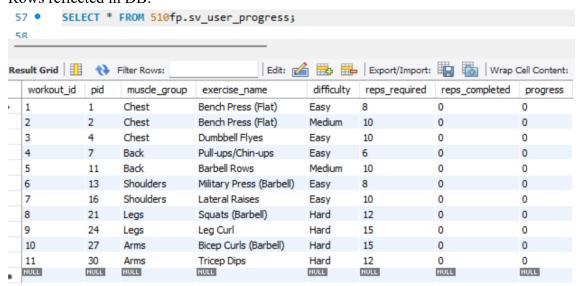
A new window will open displaying all existing workouts from DB. Click on Add button to add exercise to User Progress table.



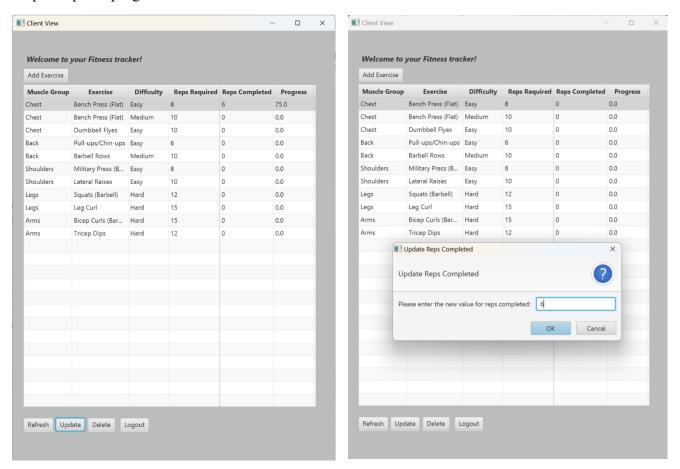
Step 3: 10 rows added successfully.



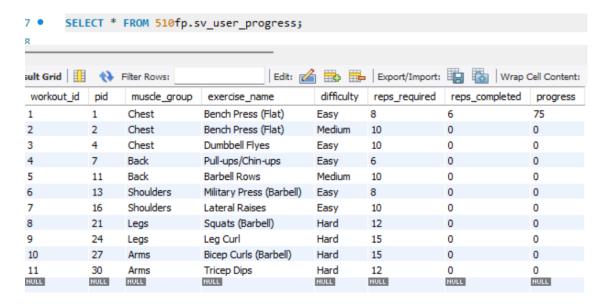
Rows reflected in DB:



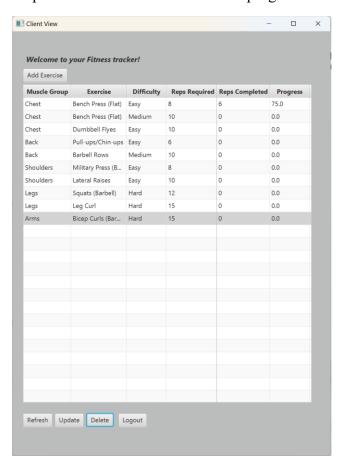
Step 4: Update progress for workouts:



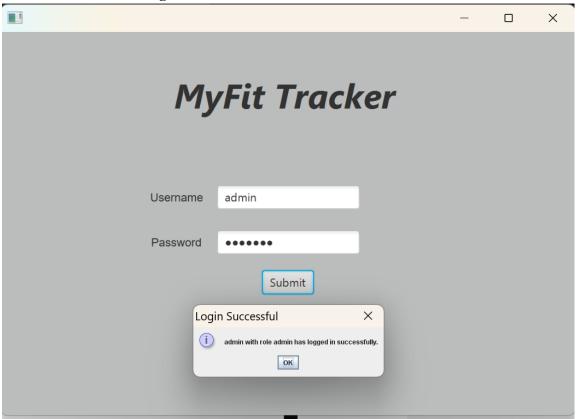
Rows reflected in DB:



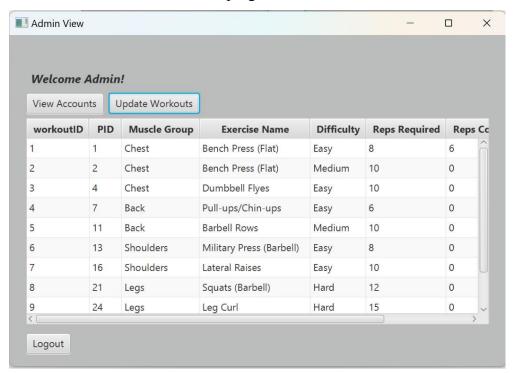
Step 5: Delete last record from User progress table and DB:



4.3. Admin View: Successful login of admin.



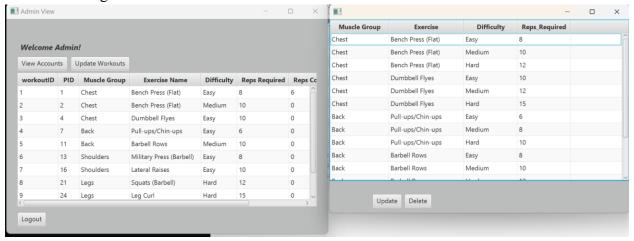
AdminView: The table shows the progress of users' workouts.



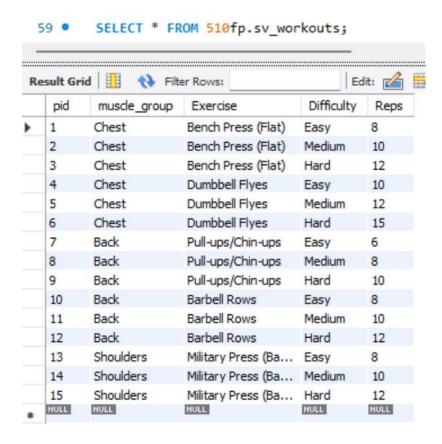
4.4.Admin View: Update first record from DB.

Step1: List of existing workouts before updating records.

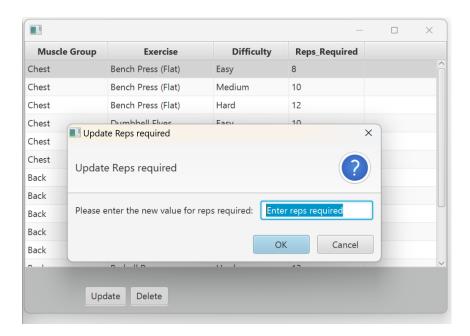
Upon clicking Update Workouts button on Admin Main View, we get a new window with table of existing workouts.

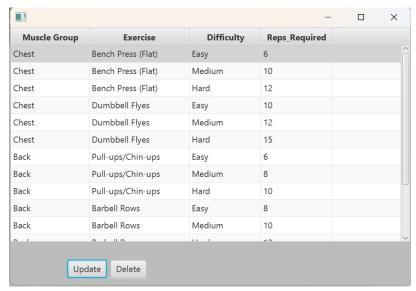


From DB:

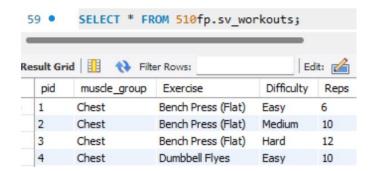


Step2: Update the first row by selecting it and click on the update button.

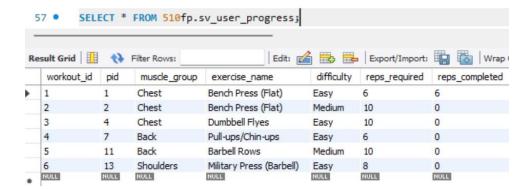




Updated row reflected in workouts table:

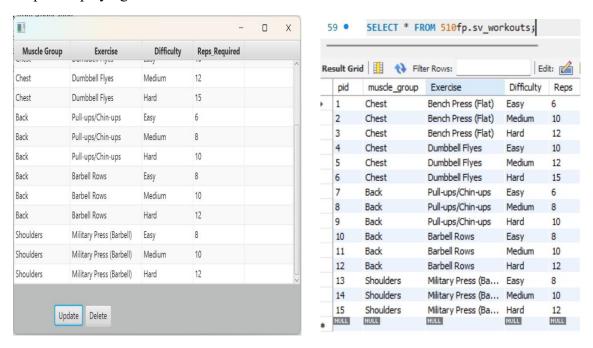


Updated row reflected user progress table:

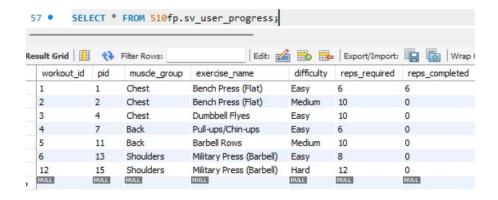


4.5.Admin View: Delete last record from DB.

Step1: Displaying last record of workouts table from DB.

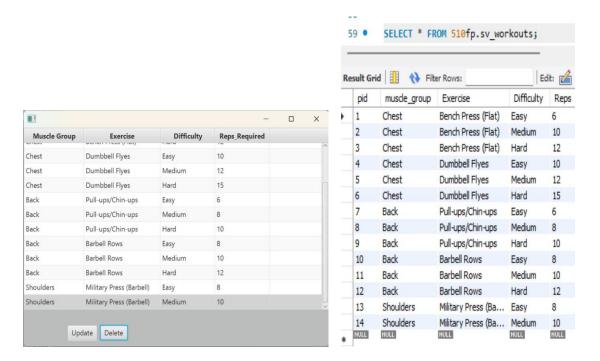


This row is also present in user progress table:

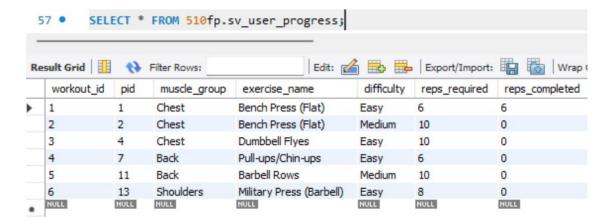


Step2: Select the last row and click on Delete to remove the record.

Record deleted from workouts table:



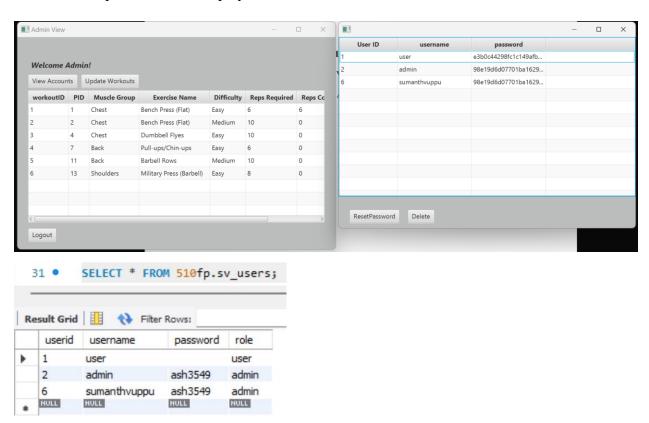
Record deleted from user progress table:



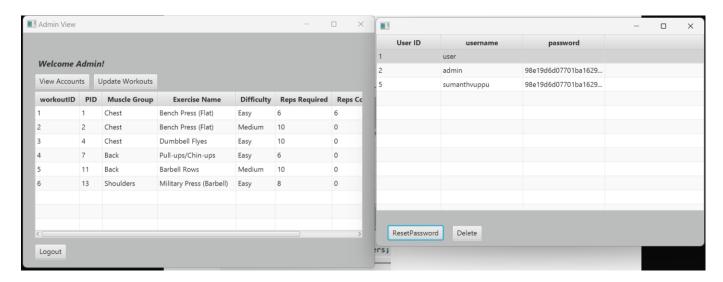
4.6. Admin View: Reset Password for all accounts.

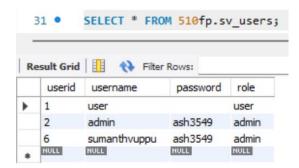
Step1: Display users table by clicking on View Accounts:

Note: Hashed passwords are displayed in Admin View.



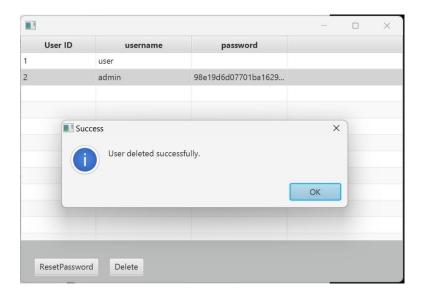
Step2: Reset Password for first row from user table:



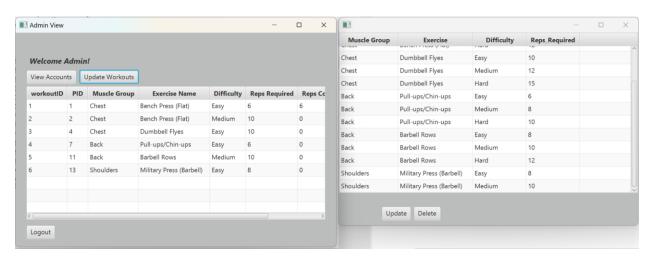


4.7. AdminView: Delete last user from View Accounts:

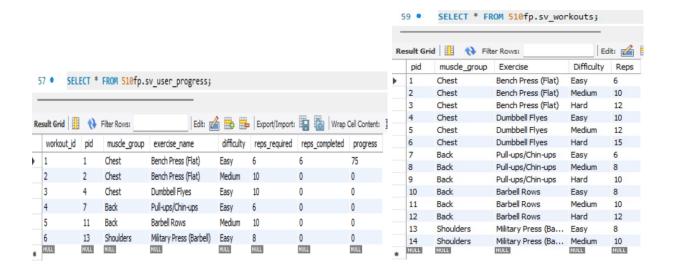
Step1: From the above users table, we select last row and delete the user.



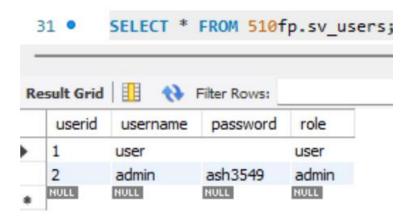
4.8. All remaining records from admin view:



Cross-check from DB:



4.9. End user table: As we reset the password for user in Step 4.6, the password field is empty.



Extra Credit

5.1. Creating a working .jar File:

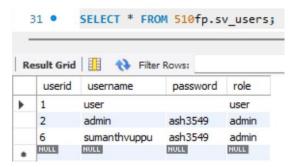
As per the given instructions, the application has been exported with the Main class as starting point of the execution.



The file can be found along with the zip file of the project.

5.2. Displaying hashed passwords in admin view:

Original table from DB:



Hashed Passwords displayed in admin view:

