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STUDBUD

A digital solution to
maintain your productivity!

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Objectives

- To create a java based project to implement programming to solve real life problems.
- To implement knowledge acquired during all the sessional.
- Creating an interactive UI designed by java framework such as java Swing or JavaFX
- Use databases to manage our data, use of MySQL in such endeavour.
- Dynamic use of database during program execution.

Introduction

StudBud is a multi-user productivity app based on JavaFx GUI interface and MySQL databases . It is designed mainly to help students as well as other professionals to manage their studies, personal life as well as to keep a track of their life. In modern days, we spend more of our time behind the computer screen. That is why StudBud is here, a java based desktop application to assist the user to sharpen their productivity and management skills.

Key Technologies:

01 **Language: JAVA**

02 **SDK: Java 15.0, Library: JavaFX 19 SDK, IDE: Intellij**

03 **Database: MySQL**

WHY USE STUDBUD

Simplicity

It is really Simple to use.

Comfortable

The functionality and UI is designed completely for the convenience of users.

Keep Track

Use the app to keep track and get control of your life and works!!

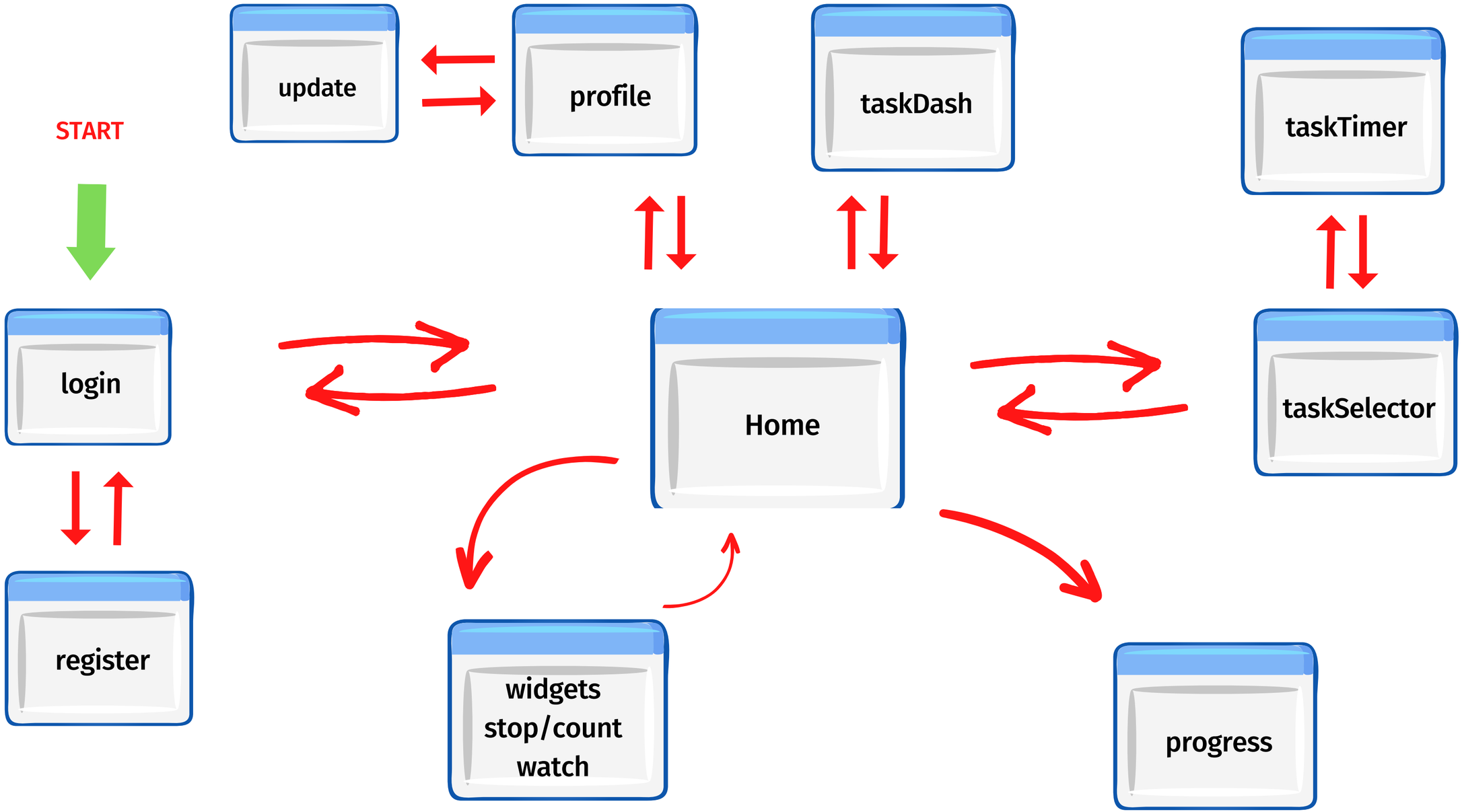


Figure: Complete flow chart of the app

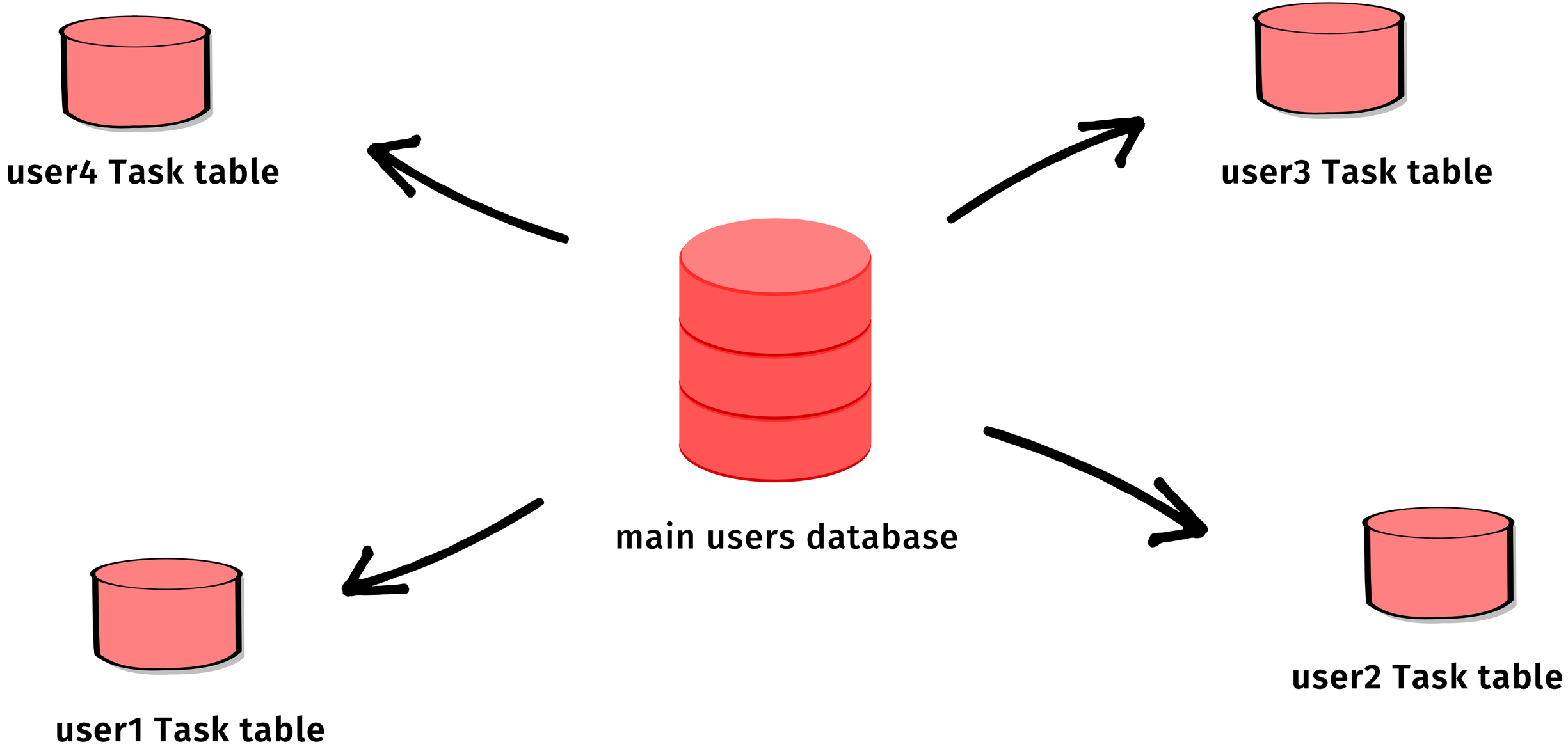
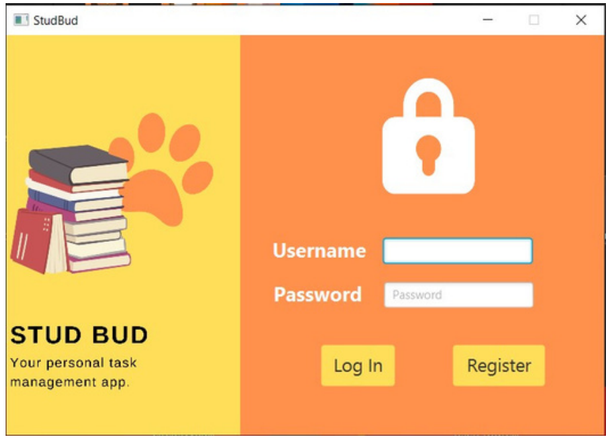
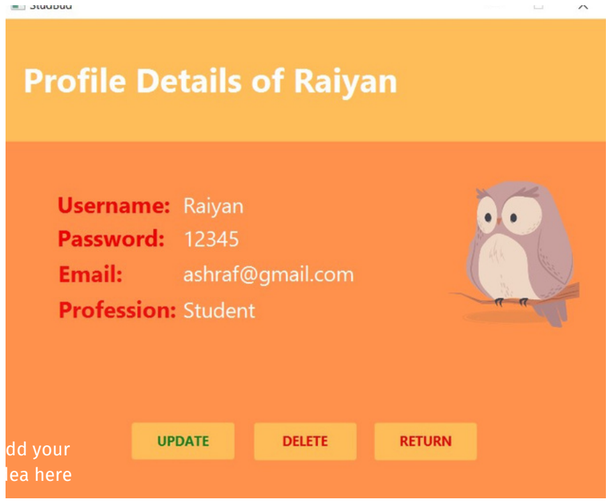


Figure: Basic Database Structure

Explanation of Each Stage: Login Page

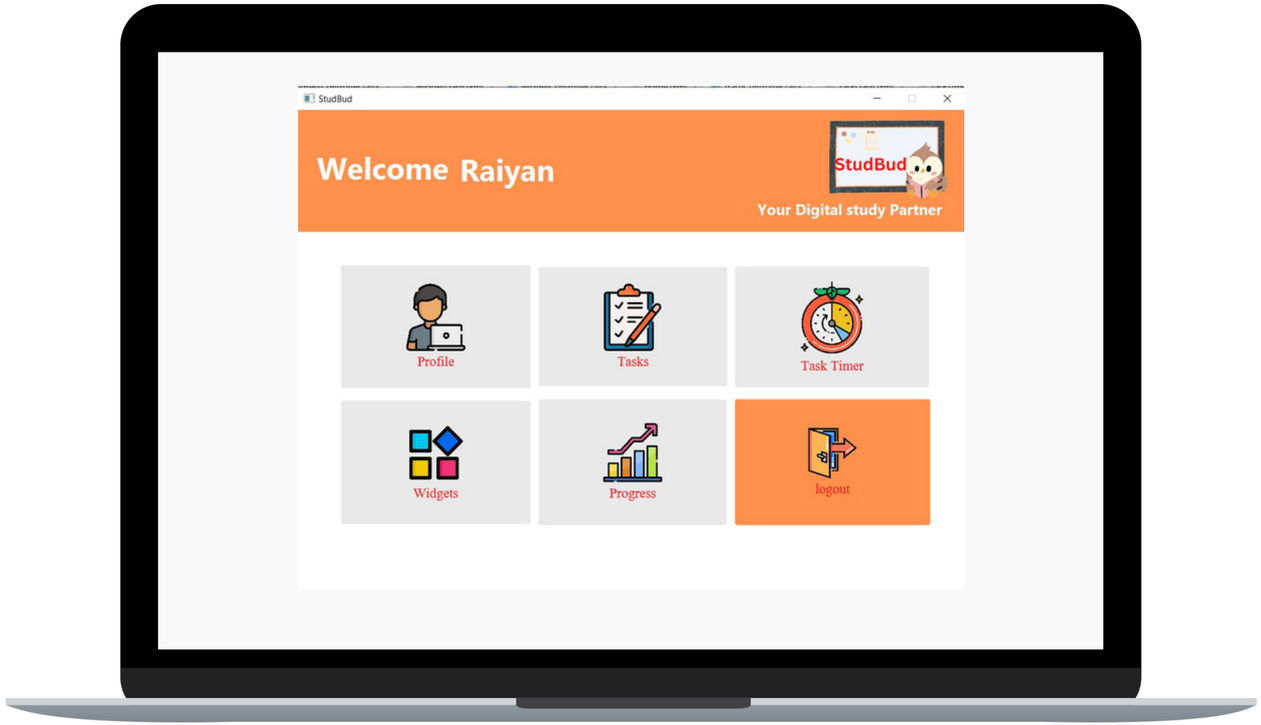


- Take username and password as input. Connect to database and checks. If matches, then allows to proceed



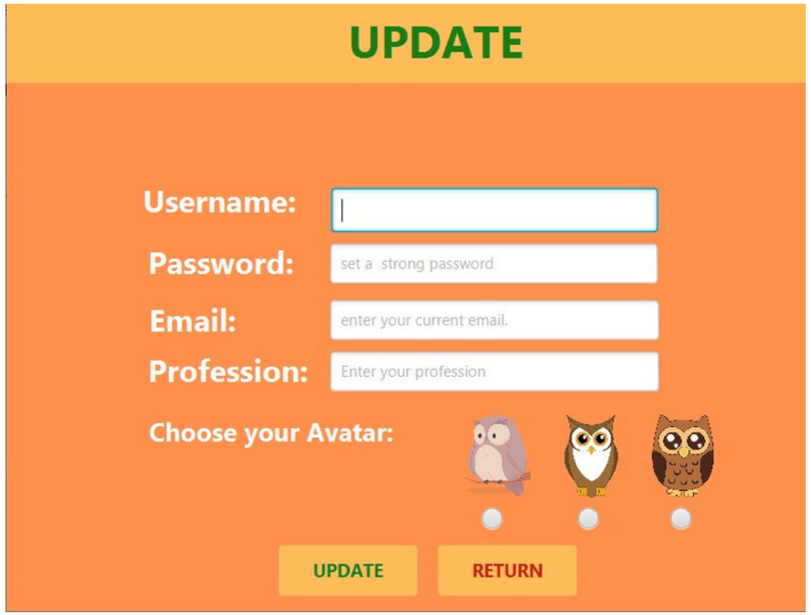
- Register page creates new user in the main userinfo table. Then returns to login

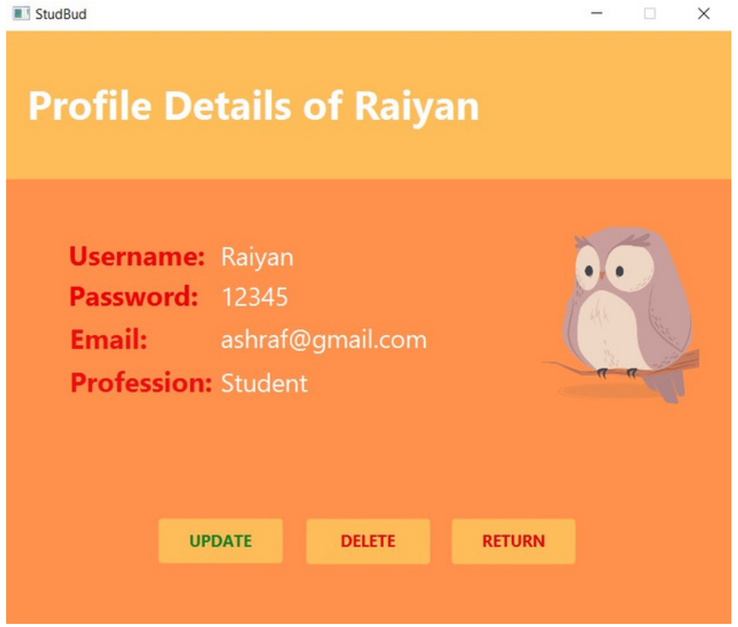
Main Home Page



- It is our main home page. From here we will navigate towards different functionalities.
- The functionalities are divided mainly into 5 parts.
- If we Log Out from main page, it will take us to login again.
- CSS was used to design this tab.

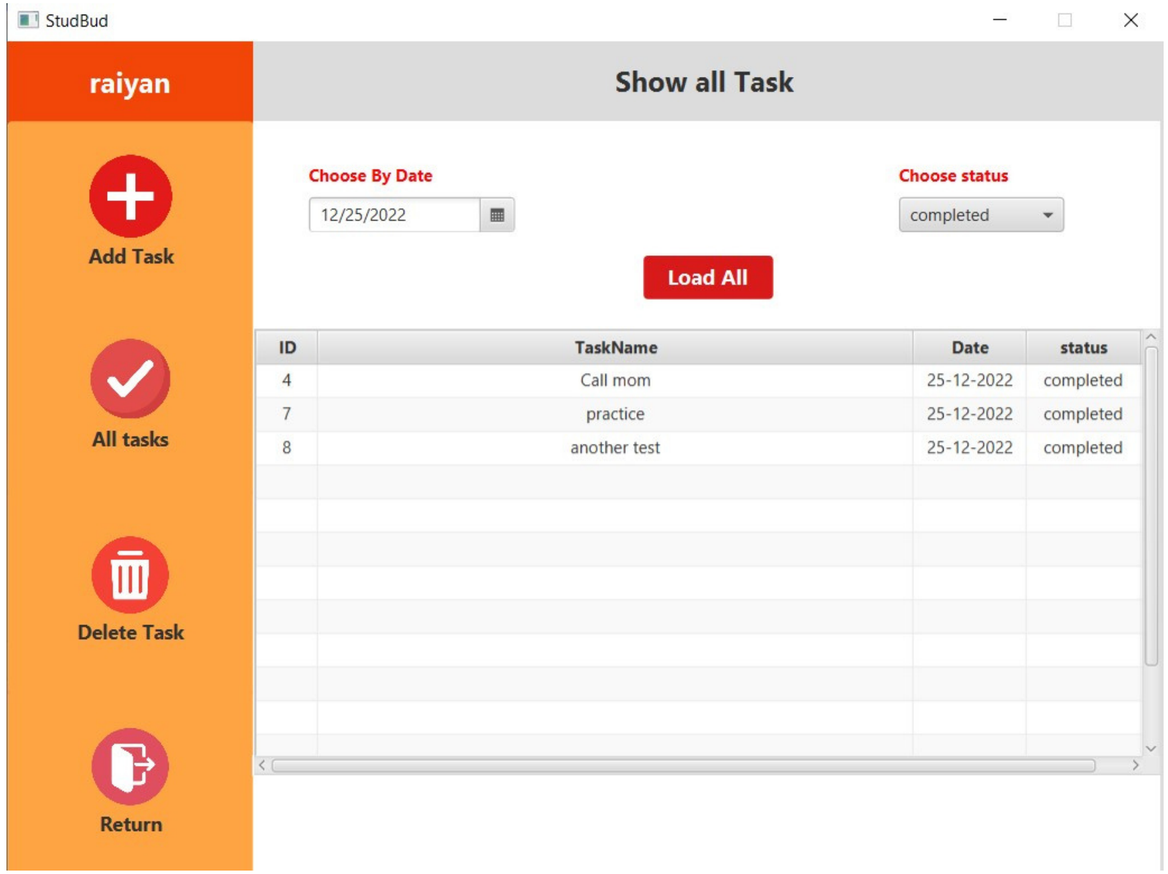
User Profile: Update, Delete functionalities.





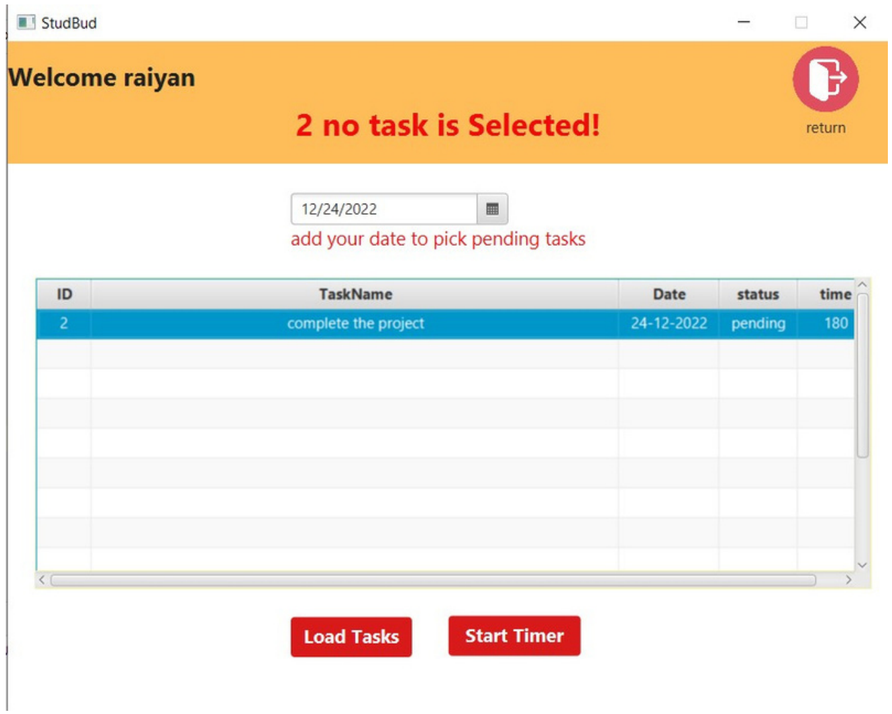
- This part mainly update the main user information or delete account. here in this case, we can update any particular leaving the rest. But update is not possible if all filed are empty.
- Basic CRUD operations. Based on primary key (ID)

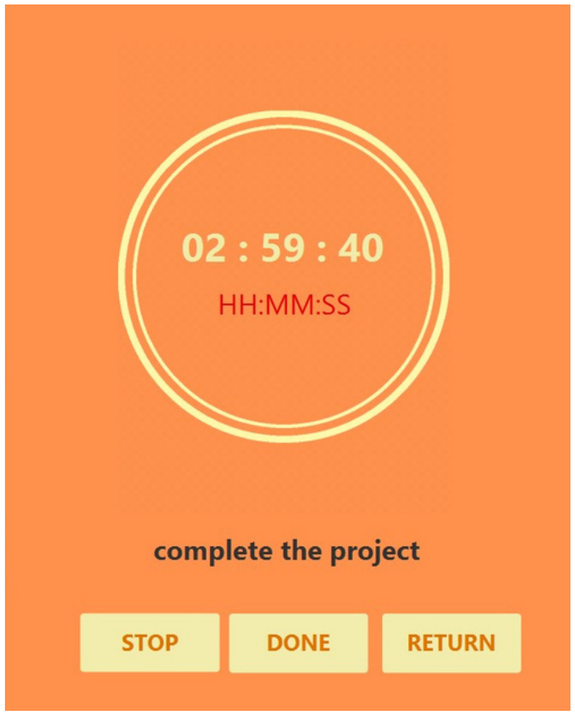
Task Dash Controller



- Main task view.
- Add task to tasktable dedicated to particular user.
- select task and delete.
- Filter out tasks based on dates or status.
- Basic CRUD operation on the table dynamically created and named after the user.

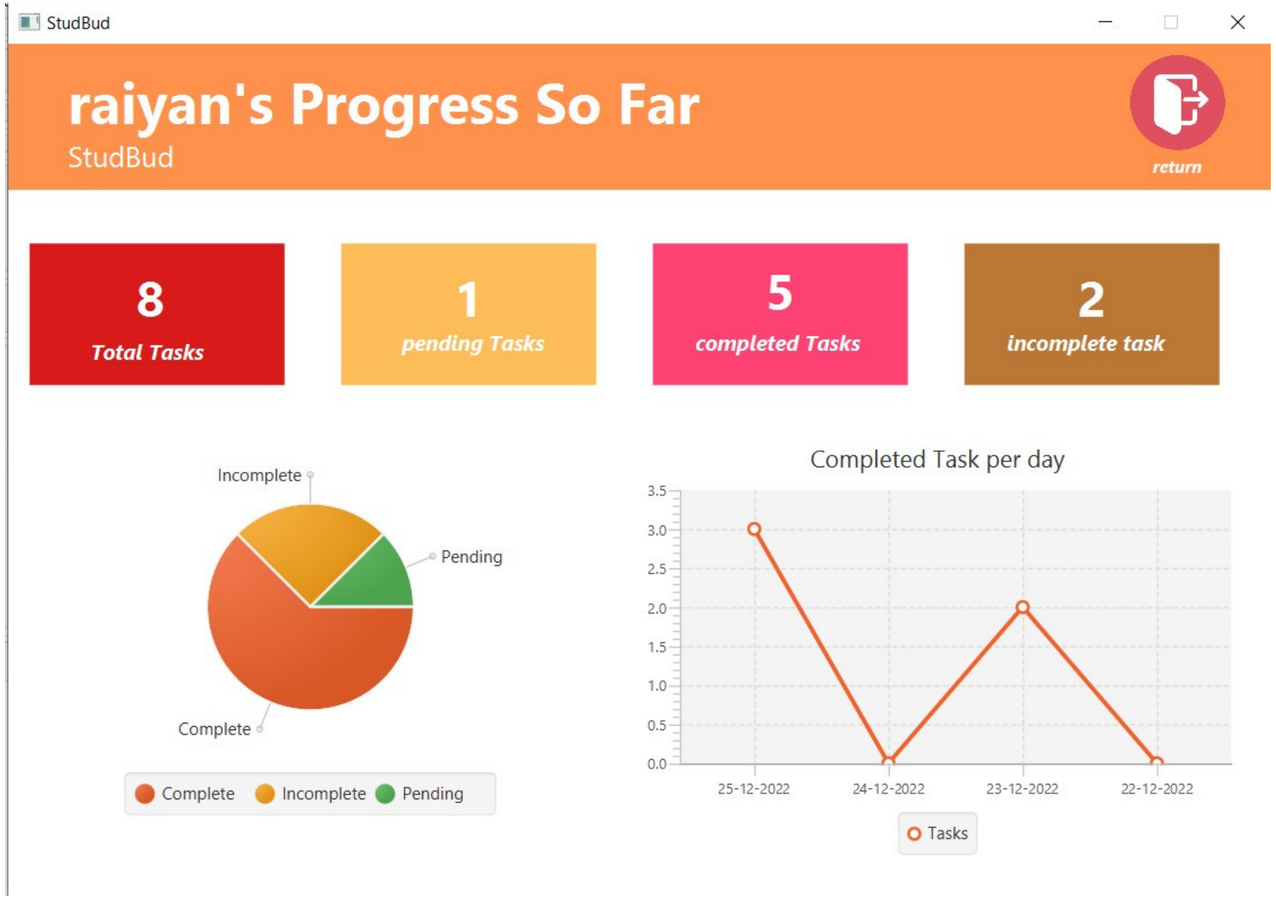
Task Timer: Selector and Timer





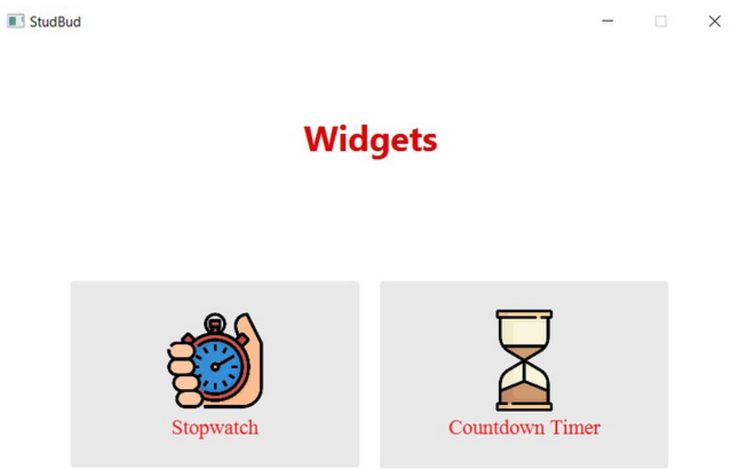
- We can select the task from our task database.
- Load pending tasks based on Time.
- Select and start timer.
- IF task is not completed within time, done button is disabled and task will remain incomplete.
- If done, it will complete.

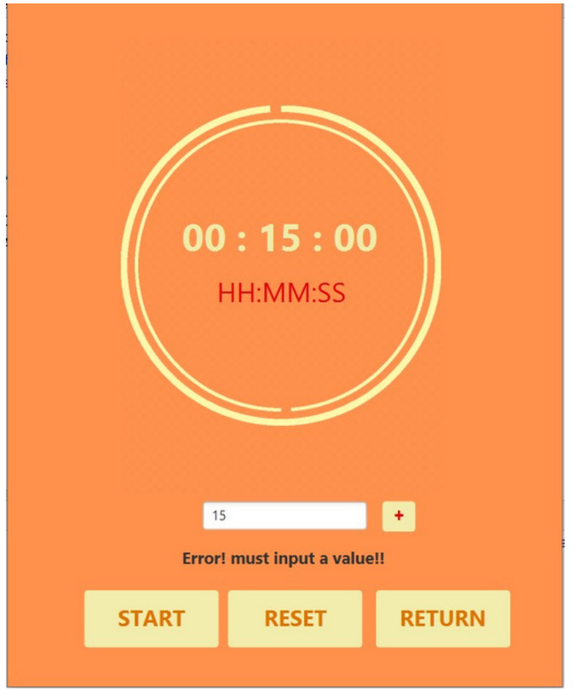
User Progress So far



- Shows total number of completed, incomplete and pending tasks for that particular user.
- The pie chart is the visual representation of that data
- The line graph gives a graph based on completed task for last four days (from present day)
- Helps the user to keep track.

Task Timer: Selector and Timer





- Some widgets are added here for the user.
- Currently there are two, Countdown timer and Stopwatch.
- The user can download more cool widget to use in the app in further update.

That's all!
Thank you