

## Requirement:

We require a small estimation application for a tiny Jewelry store.

The application has the following abilities to cater the service

1. Login screen to login to the application. We have 2 categories of customers (**Regular** and **Privileged**)
2. Screen should have option to enter
  - a. **Gold price**
  - b. **Weight of the item**
  - c. **Discount percentage** (This option should be visible only for privileged customer and default discount is 2%. Please remember that store owner can apply any kind of discount plans in future but for now only 2% for privileged user)
3. The application should be able to print via these options
  - a. **On the screen** (Show in a message box)
  - b. **To a file** (Store in a txt file)
  - c. **To a paper via printer** (Option to be provided but implementation should be kept dummy which means method implementation should throw not implemented exception )

Note:

1. **No need for any registration of user. By default, you can store two users one as Normal and the other as Privileged user in any xml file. Need not use any database for doing so and just get the data from xml file during login process.**
2. **Discount is only applicable for Privileged user**

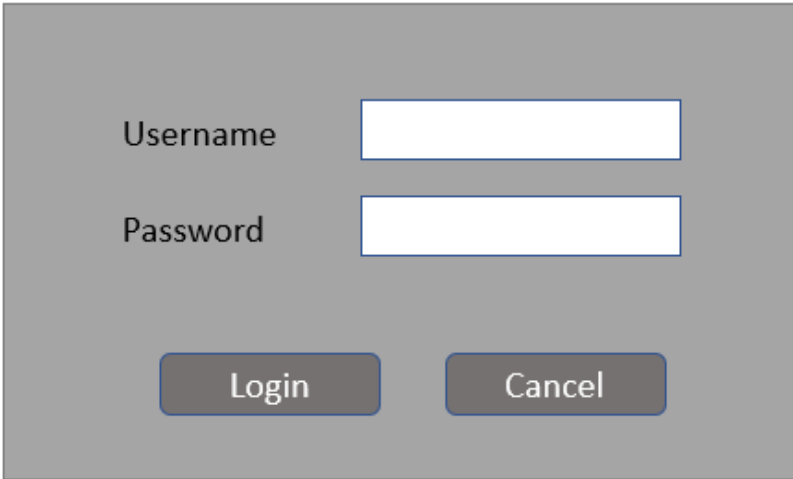
## Expectations:

- You can use any kind of front end for accomplishing the task (even command prompt is also fine) which means front end can be replaceable
- Please use best practices everywhere

Below are the suggested screens for your reference

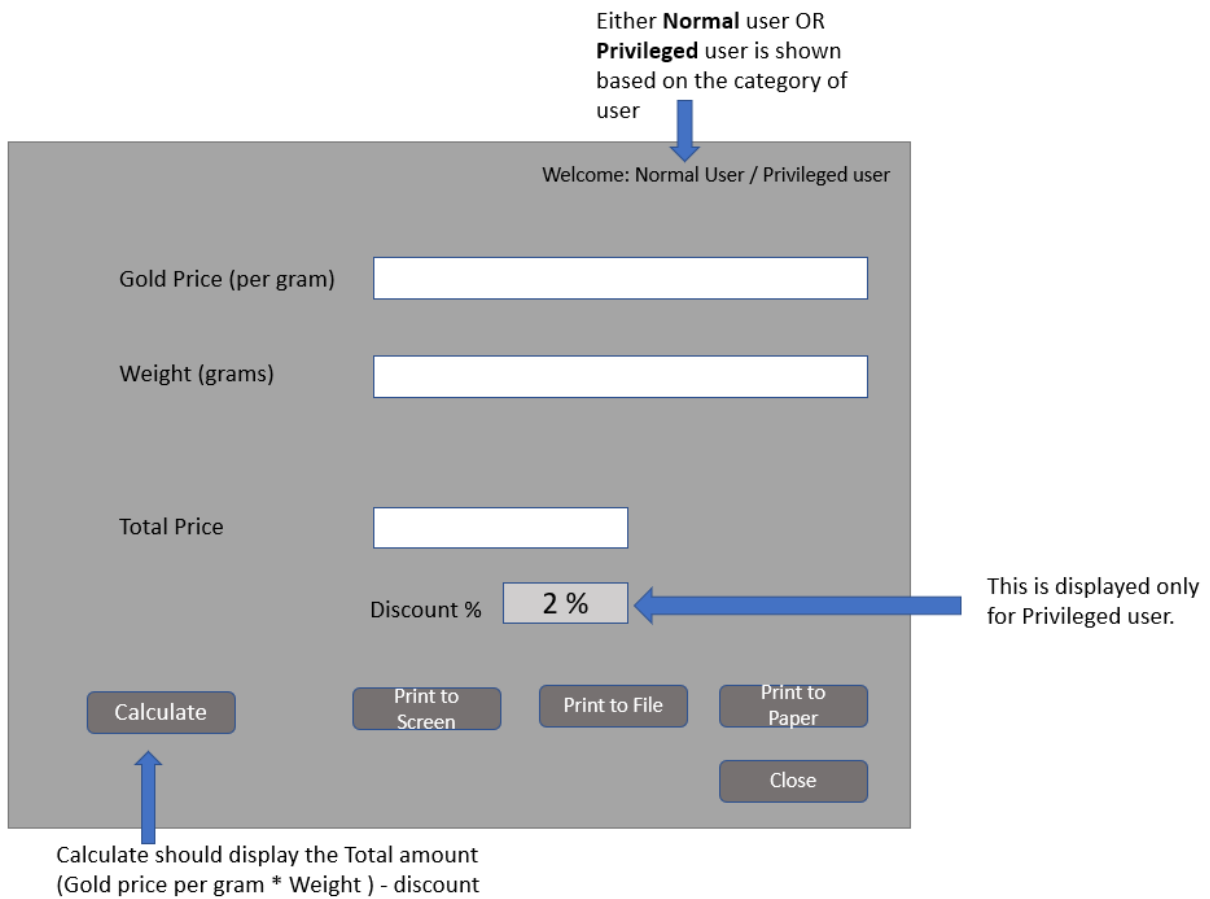


### Login Screen



A login screen with a grey background. It contains two text input fields: one for 'Username' and one for 'Password'. Below the password field are two buttons: 'Login' and 'Cancel'.

### Estimation Screen



Either **Normal** user OR **Privileged** user is shown based on the category of user

Welcome: Normal User / Privileged user

Gold Price (per gram)

Weight (grams)

Total Price

Discount %

Calculate    Print to Screen    Print to File    Print to Paper    Close

Calculate should display the Total amount (Gold price per gram \* Weight) - discount

This is displayed only for Privileged user.

The Estimation Screen has a grey background. At the top, it says 'Welcome: Normal User / Privileged user'. Below this are four text input fields: 'Gold Price (per gram)', 'Weight (grams)', 'Total Price', and 'Discount %'. The 'Discount %' field contains the text '2 %'. At the bottom, there are five buttons: 'Calculate', 'Print to Screen', 'Print to File', 'Print to Paper', and 'Close'. Annotations include a blue arrow pointing to the 'Welcome' text from the text 'Either Normal user OR Privileged user is shown based on the category of user', and another blue arrow pointing to the 'Discount %' field from the text 'This is displayed only for Privileged user.' A third blue arrow points to the 'Calculate' button from the text 'Calculate should display the Total amount (Gold price per gram \* Weight) - discount'.