

Retail Calculator

User Manual

Version 1.0

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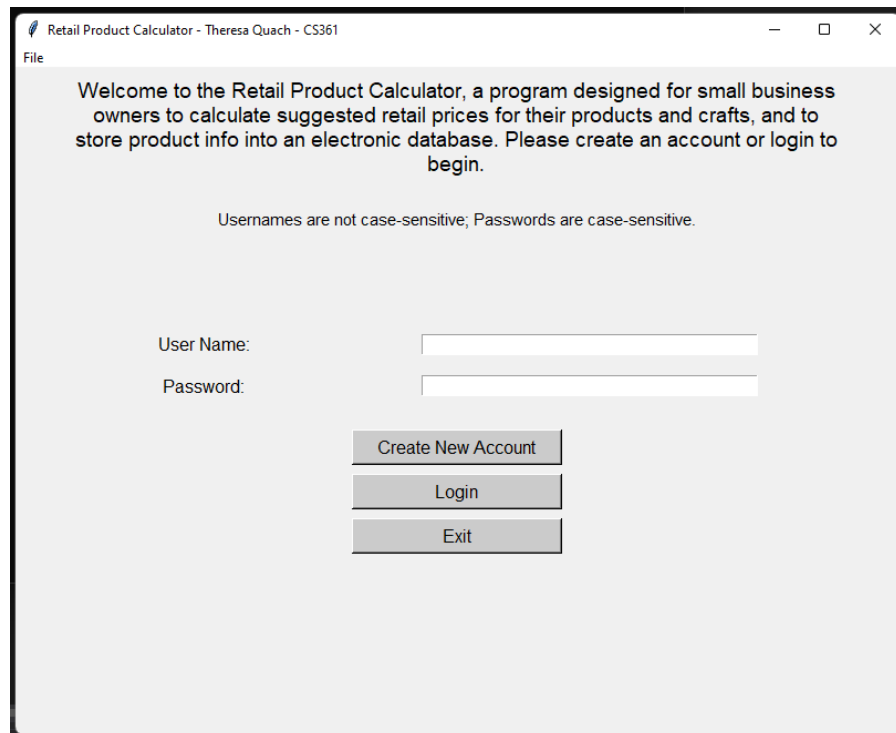
1 Introduction

Maintaining a database of the product prices is indispensable to running a well-organized business across different industries. The Retail Calculator is an application that allows the user to record cost information about their products, including material and labor costs, and desired markups, to memory as well as calculate a recommended retail price for those products. The application removes the extra time needed to compute such prices manually and retains the product information for future pricing.

2 Getting Started

This program is run locally and all data is saved locally. In order to start the program, start the **acctsrv.py** and **calculator_service.py** scripts separately, then start the **UI.py** program to begin using the program.

In order to start using the program, you will need to create an account on program startup.



The screenshot shows a window titled "Retail Product Calculator - Theresa Quach - CS361". The window has a "File" menu in the top-left corner. The main content area contains a welcome message: "Welcome to the Retail Product Calculator, a program designed for small business owners to calculate suggested retail prices for their products and crafts, and to store product info into an electronic database. Please create an account or login to begin." Below this, a note states: "Usernames are not case-sensitive; Passwords are case-sensitive." There are two input fields: "User Name:" and "Password:". Below the input fields are three buttons: "Create New Account", "Login", and "Exit".

1. Enter a username (not case-sensitive - "username" and "Username" are the same username)

2. Enter a password (IS case-sensitive - “password” and “Password” are different passwords)
3. If it is a new account, click Create New Account and the program will create an account with the given username and password, and redirect you to the main program page
4. If it is an existing account, click Login and the program will redirect you to the main program page if the information provided is correct.

Possible Errors:

1. Incorrect Password: the password entered for the entered username is incorrect. Check the letter and number case.

Incorrect password. Please try again.

2. Account not found: the username entered was not found. Check spelling.

Account not found. Please try again.

3. Error: Account Services: there is an issue with the account manager microservice. Restart the program titled **acctsrv.py**

Error: Account Services

Forgot Login?

If you've forgotten your username and/or password, navigate to the folder where your program is saved/run from, and look for the text document **rcaccounts.txt** to recover your login information

3 Commands

After logging in, instructions on the main window are provided. There are navigation options on both the left-hand side of the window as well as the top of the window.

1. **Main:** returns user to the main page
2. **Add Product:** allows the user to add a product to their file. Product information needed from the user includes material cost(s) for the product, labor cost (hours

and cost per hour) in making the product, and a markup percentage to apply to the product's base cost.

3.

***** Note: Any empty fields will be set to '0' by default**

Added products will be subsequently added to the user's list of products in the program.

Here you can create and add individual products and their associated materials, costs, and labor.
You can use the keyboard shortcuts 'Ctrl-Z' to undo typing errors and 'Ctrl-Y' to redo text deletions in these fields.

To begin, type in the product's name.

Next, add materials used to make the product and their costs. If the product was bought wholesale, please RETYPE THE NAME OF THE PRODUCT and put in the total cost of the product (i.e. 'Necklace, 15').

<input type="text" value="Material Name"/>	<input type="text" value="Cost"/>
<input type="text" value="Material Name"/>	<input type="text" value="Cost"/>

Then, add the amount of labor (in hours) and cost of labor (price per hour) used to produce this product. If not applicable, enter '0' for both fields.

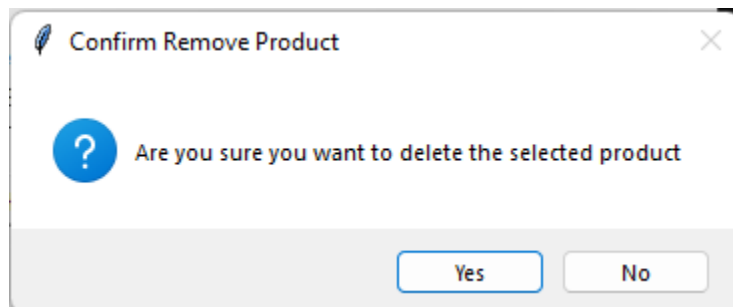
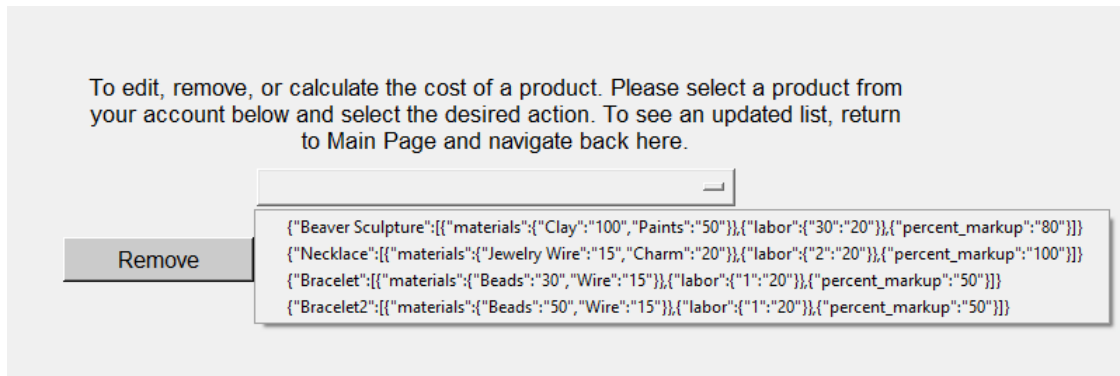
<input type="text" value="Hours worked"/>	<input type="text" value="Cost per hour"/>
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Lastly, add the percent markup you'd like to use for your suggested retail price (i.e. Enter '100' for 100%, '50' for 50%, etc.)

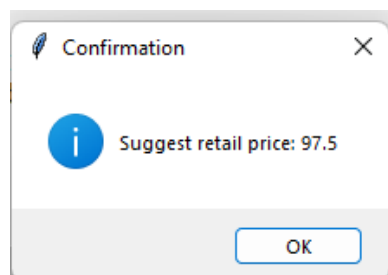
Press Add to confirm your product.

4. **Remove Product:** redirects the user to a page where there is a dropdown menu with a list of options containing the user's products. Allows the user to remove a product from their list of products within the program.

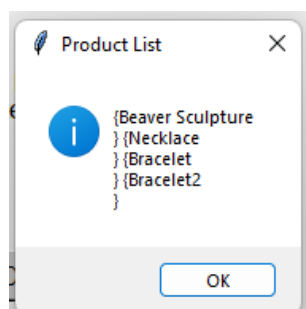
***** Note: To see an update dropdown menu from the remove screen, navigate back to the main page by clicking "Main" and then navigate back to the remove/calculate page by pressing "Remove Product" or "Calculate Product".**



5. **Calculate Cost:** redirects the user to a page where there is a dropdown menu with a list of options containing the user's products. Selecting a product and clicking "Calculate" will return a suggested retail price to the user for the product they selected.



6. **List Products:** In a pop-up window, displays a list of all of the user's products' names.



7. **Logout:** logs the user out of the main program window and returns them to the login window
8. **Exit:** logs the user out of the main program and exits the program.