



Task Management System

...

TLMB

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About Us

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Outline

- The Task Management System is designed to allow users to store and manipulate tasks.
- The user should be able to view, manage, and modify their associated tasks.
- An admin user will have exclusive privileges allowing for the manipulation, addition, and removal of all users.



References

Pandas User Guide https://pandas.pydata.org/docs/user_guide/index.html

PIL tutorial <https://pillow.readthedocs.io/en/stable/handbook/tutorial.html>

Stackoverflow <https://stackoverflow.com/>

Tkinter Documentation <https://docs.python.org/3/library/tk.html>

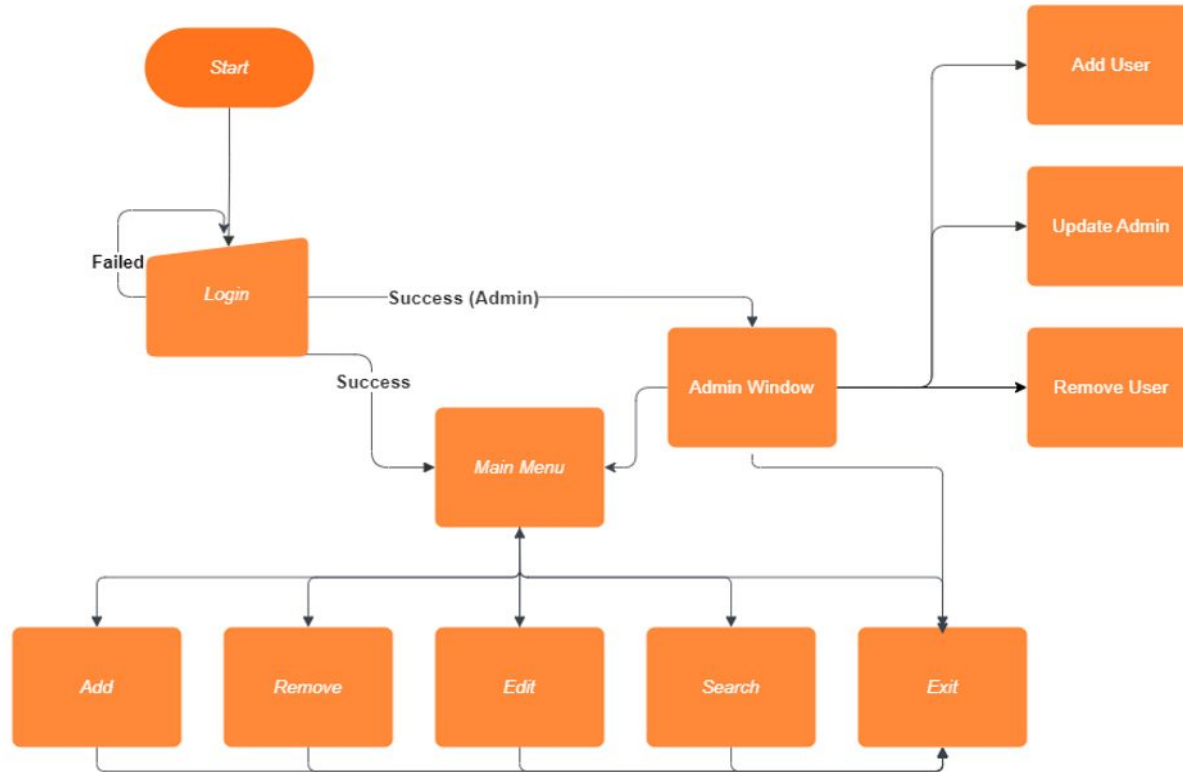
Project Objective

1. Admin User...
 - a. Has their own Admin username and password.
 - b. Can change admin username and password.
 - c. Can add a normal user by creating a new username, password, and corresponding data.
2. Each User...
 - a. Can add a task that contains: title, time, duration, and description.
 - b. Can remove a task.
 - c. Can edit a task's details.
 - d. Can search through TMS depending on time, title, or duration.
3. TMS should be a User friendly software such that...
 - a. It shows a welcome page and provides a menu of all functions to the user.
 - b. It illustrates the reports in a tabular form.
 - c. It shows a warning if the user tries to input contact information with a name that already exists.
 - d. It provides an exit function and thanks the user for using the software.

Project Description

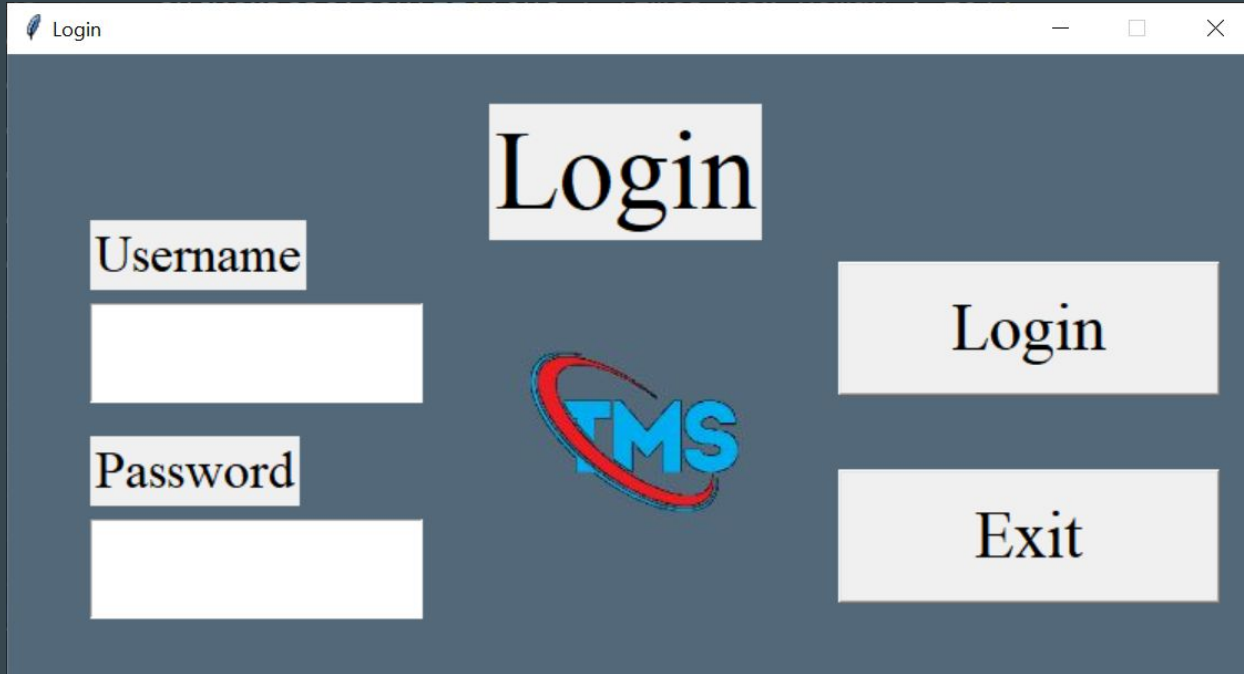
- The Task Management System is designed to:
- Allow login as an admin or regular user
- Allow users to add, remove, edit, or search for tasks
- Show a full list of all tasks on the main menu
- Allow admins to add users, remove users, and update the login info of the admin
- Be easy for users to navigate
- Let users exit the program at any time

User Experience



- Start at login
- Failed login returns to login page
- Access to either admin window or main menu
- Admin can direct to add user, remove user, and update admin
- Main can direct to add, remove, edit, search or exit
- All the functions also allow the user to exit or return to main

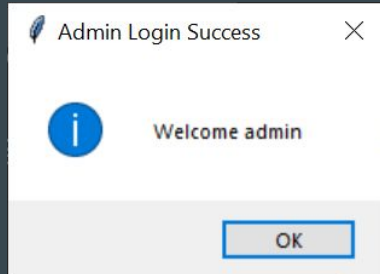
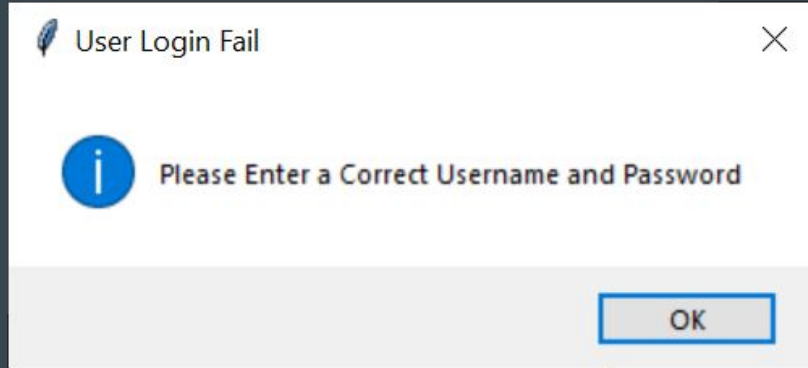
Login Screen



The image shows a Java Swing window titled "Login". The window has a dark blue background. In the center, the word "Login" is displayed in a large, white, serif font. Below it is a logo for "TMS" in blue, stylized letters with a red swoosh. On the left side, there are two white rectangular input boxes. The top box is labeled "Username" and the bottom box is labeled "Password", both in black text. On the right side, there are two white rectangular buttons. The top button is labeled "Login" and the bottom button is labeled "Exit", both in black text.

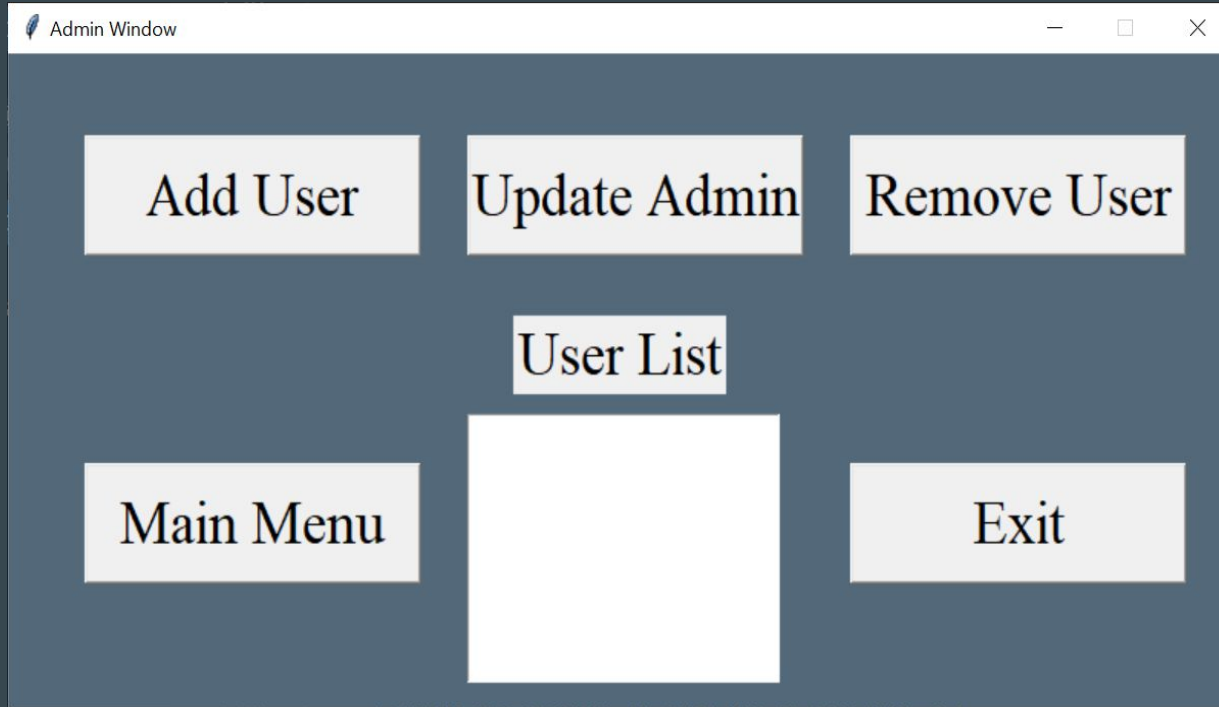
- First window upon running program
- 2 entry boxes
- 2 buttons

Pop Up Windows



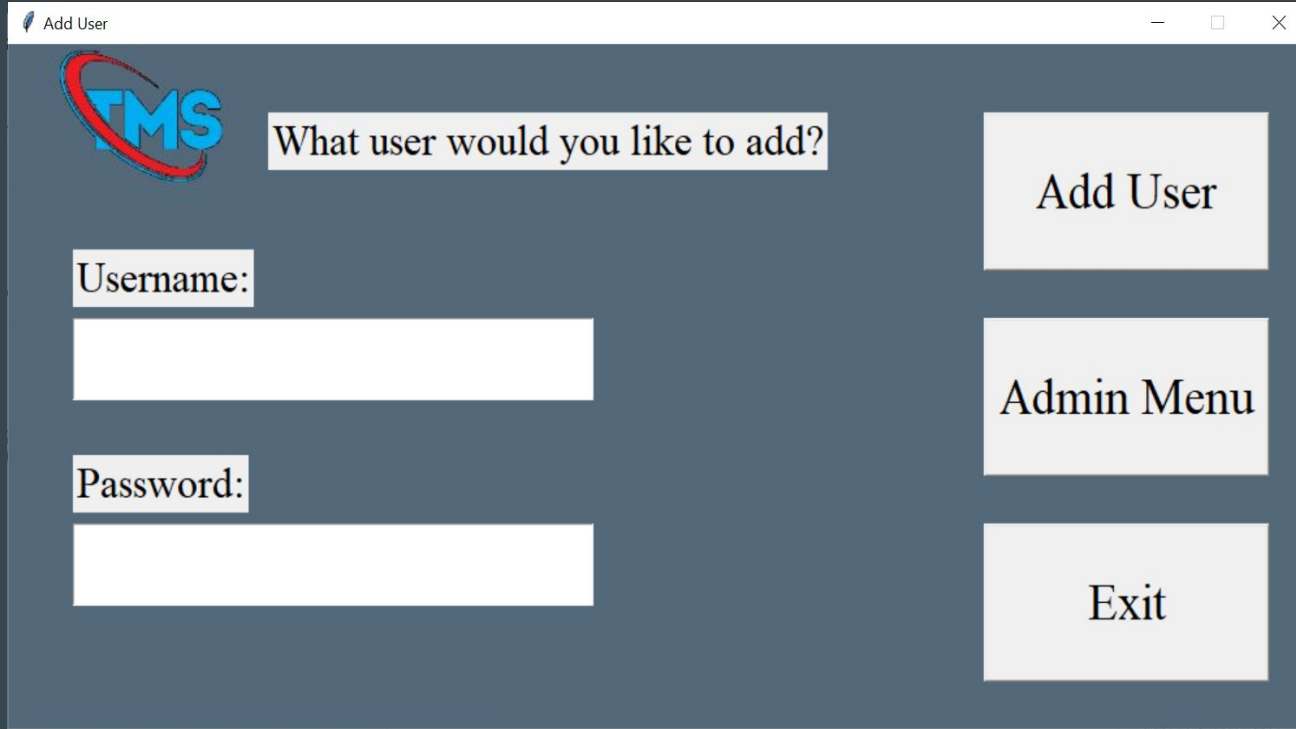
- Popups are tkinter message boxes
- Called in the login function
- There are also popups for each task's completion

Admin Window



- 5 buttons that allow the admin to navigate their functions
- Can open the main menu or exit the program
- User List is a text box that updates after every change of any user

Admin Add Window



Add User

TMS

What user would you like to add?

Username:

Password:

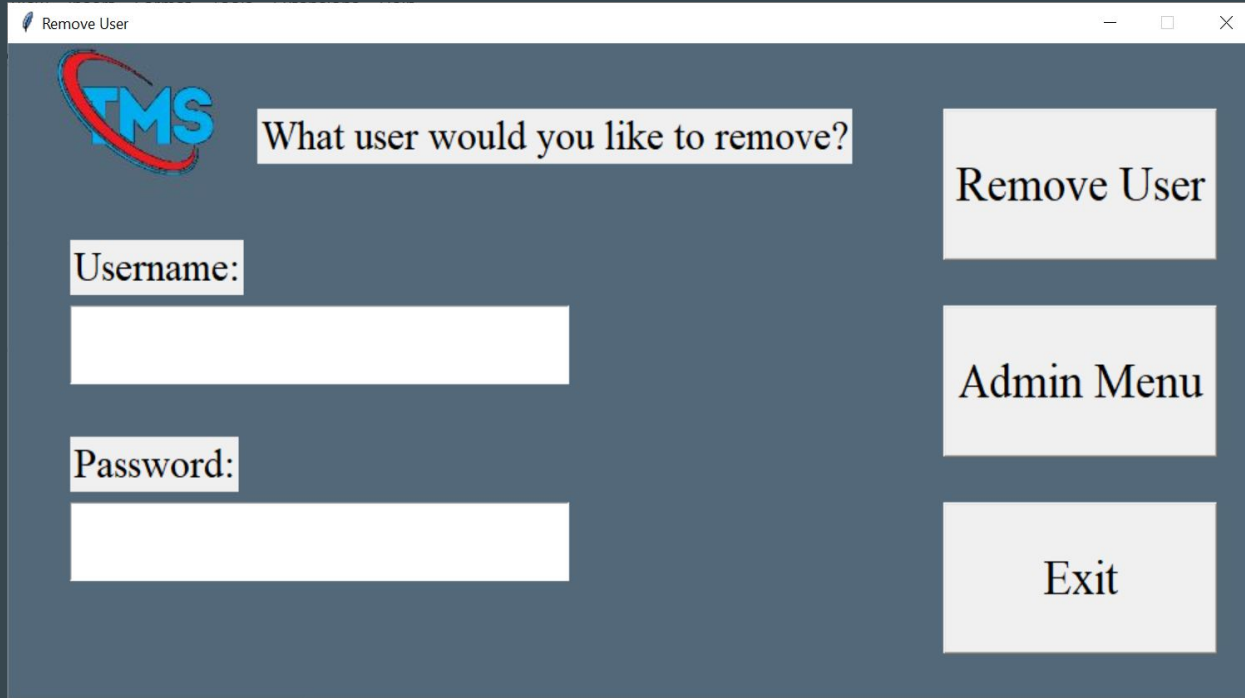
Add User

Admin Menu

Exit

- Called by button in admin window
- 2 entries
- 3 buttons
- Adds users and creates their own csv
- Can return to admin menu or exit program

Admin Remove Window



Remove User

TMS

What user would you like to remove?

Username:

Password:

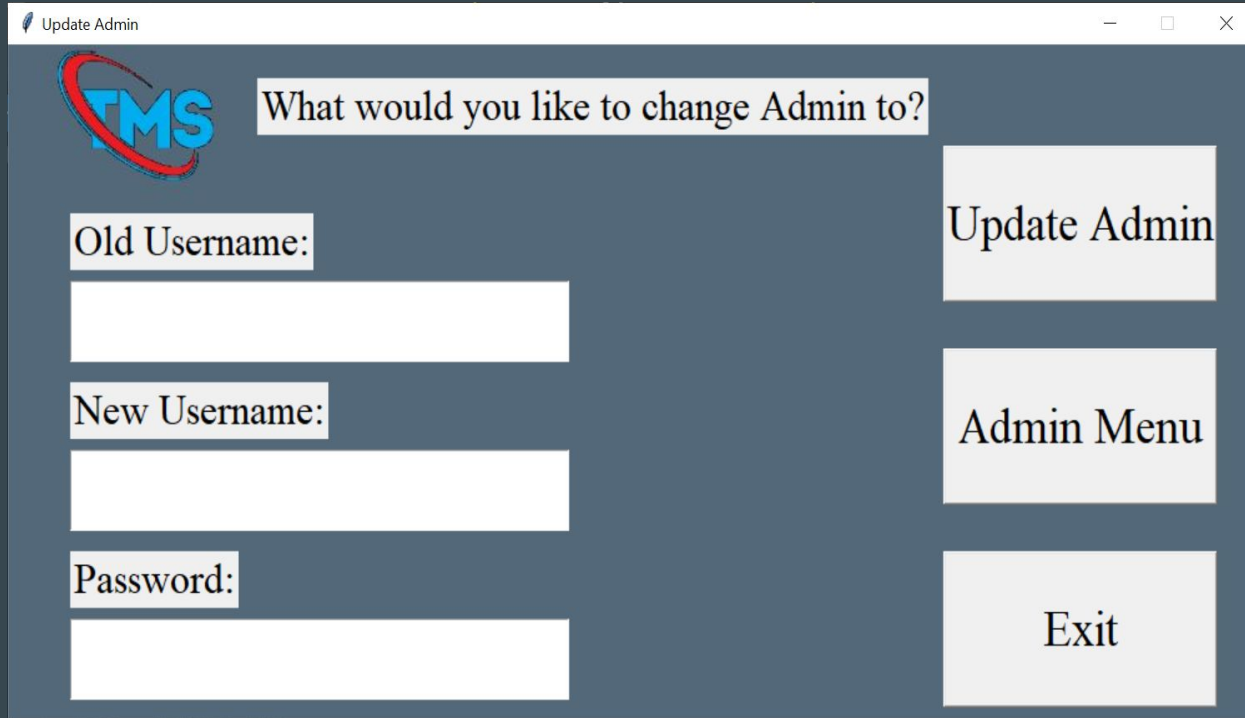
Remove User

Admin Menu

Exit

- Called by button in admin window
- 2 entries
- 3 buttons
- Removes users and their associated csv
- Can return to admin menu or exit program

Change Admin Access Window



Update Admin

TMS

What would you like to change Admin to?

Old Username:

New Username:

Password:

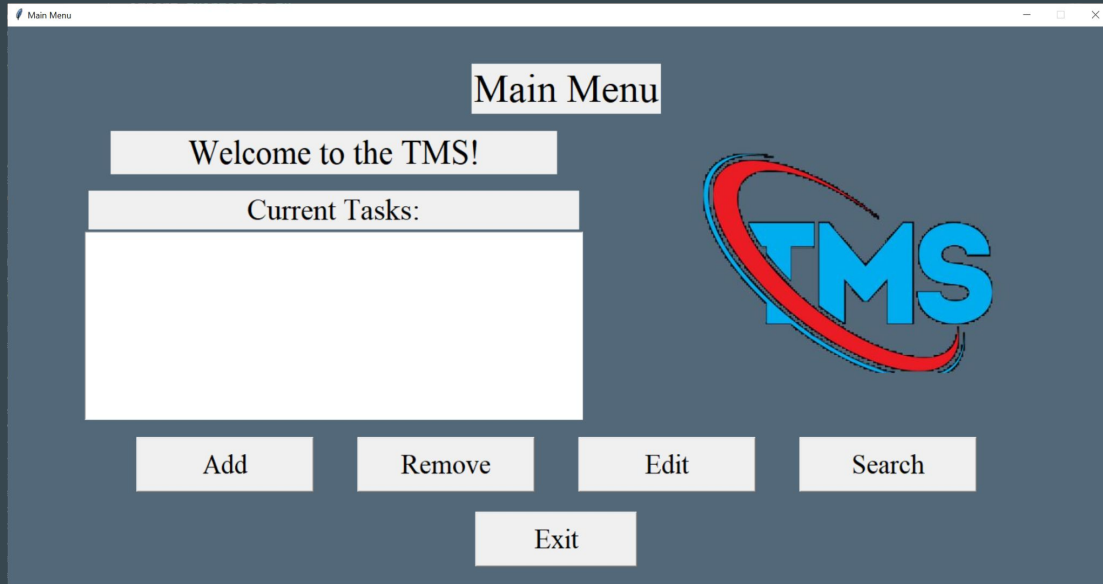
Update Admin

Admin Menu

Exit

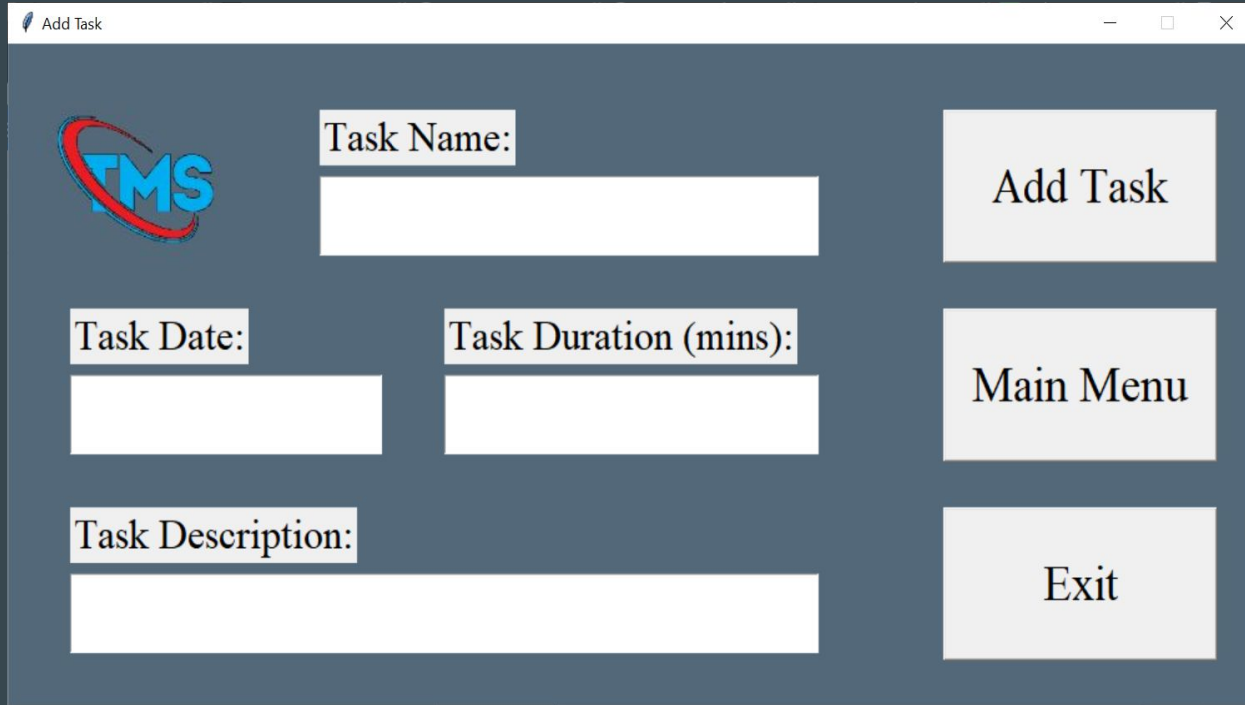
- Called by button on admin window
- 3 entries
- 3 buttons
- Alters the admins credentials in the users csv file
- Can return to admin menu or exit program

Main Menu Window



- Accessed after login if user
- Accessed after main menu button if admin
- Allows navigation to different functions
- Add, remove, edit, search, and exit
- Will display all current tasks for the individual users

Add Task Window



Task Name:

Task Date:

Task Duration (mins):

Task Description:

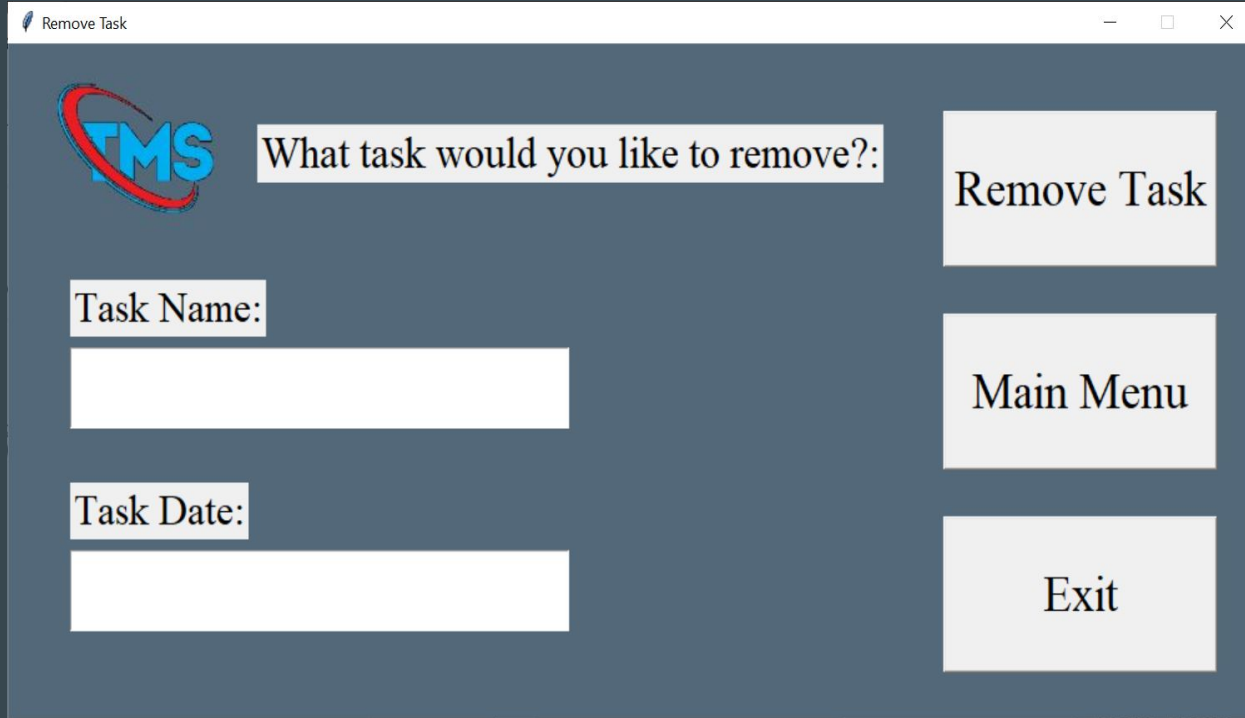
Add Task

Main Menu

Exit

- Called by button in main window
- 4 entries
- 3 buttons
- Adds a task into each specific users csv file
- Can return to main menu or exit program

Remove Task Window



Remove Task

TMS

What task would you like to remove?:

Task Name:

Task Date:

Remove Task

Main Menu

Exit

- Called by button in main window
- 2 entries
- 3 buttons
- Removes a task from each specific users csv file
- Can return to main menu or exit program

Edit Task Window

What task would you like to edit?:

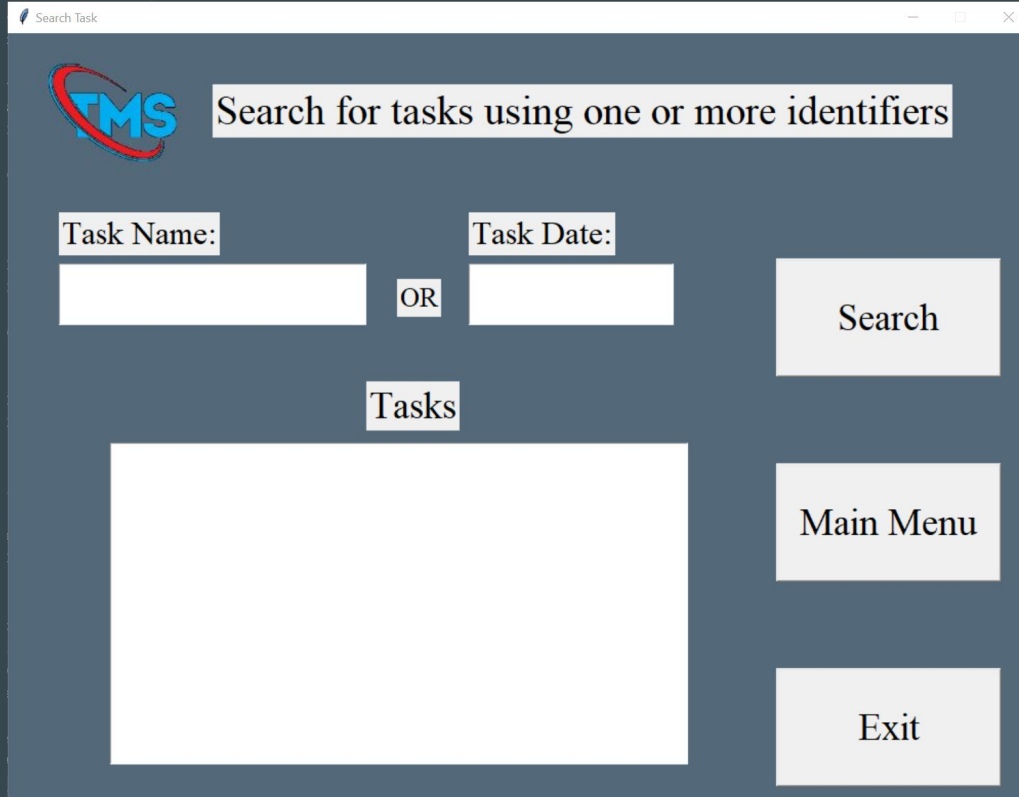
Task Name: Task Date: Edit Task

New Task Name: New Task Date: Main Menu

New Task Description: New Task Duration: Exit

- Called by button in main window
- 6 entries
- 3 buttons
- Edits a specific task from each specific users csv file
- Can return to main menu or exit program

Search Task Window



The screenshot shows a window titled "Search Task" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there is a blue header bar with the "TMS" logo on the left and the text "Search for tasks using one or more identifiers" on the right. Below the header, the interface is divided into two main sections. The top section contains two input fields: "Task Name:" followed by a white text box, and "Task Date:" followed by another white text box. Between these two text boxes is a small white box containing the text "OR". To the right of these input fields is a large white button labeled "Search". Below the input fields, there is a large white rectangular area labeled "Tasks" in its top-left corner. To the right of this area, there are two more white buttons stacked vertically, labeled "Main Menu" and "Exit".

- Called by button in main window
- 2 entries
- 3 buttons
- 1 text box
- Searches for all tasks that match the entered name OR date and displays them in the center
- Can return to main menu or exit program

Data Storage

- Data is stored in two kinds of CSV files
 - A CSV file storing all of the users and their password -> users.csv
 - A CSV file for each existing user which stores their tasks -> (Username).csv
 - We keep track of the current user with a variable that lets up open their specific csv

users.csv

```
1 adminValue,username,password
2 1,admin,admin
3 0,matt,abc
4 0,john,smith
5 0,tim,tim
6
```

```
with open ('%s.csv' % CURRENTUSER) as file:
```

matt.csv

```
1 Task Name,Task Date,Task Duration,Task Description
2 Laundry,12/5/23,80,Do my laundry
3
```