Task Management System

Madison Chan & Gabriela Ramon

Table of Contents

01

About Us

02

Project Objective

03

Graphical User Experience Design

04

Virtual Environment

05

Graphical User Interface Design

06

Data Storage

About Us

Gabriela Ramon (Team Head)

Grade: Freshman
Major: Applied Mathematics
Minor: Data Science and Analytics
Contact Info:
gabriela.ramon1@marist.edu

Madison Chan (Team Member)

Grade: Sophomore
Major: Business Administration – Marketing
Minor: Graphic Design & Data Science and Analytics
Contact Info: madison.chan1@marist.edu

02 Project Objective

The admin user is capable of:
- Having an admin user and password for login
- Changing the admin user and admin password
- Adding a normal user to TMS by creating a new username and password.
- Remove users from TMS by removing their username, password, and corresponding recorded data.

Each user should be able to:
- Add a task to TMS. The task contains: a title, time, duration, and description
- Remove a task
- Edit a task's details
- Search through TMS based on time, title, or duration and list the results on screen.

Project Objective

TMS should be a user-friendly software, such that:

- It shows a welcome page and provides a menu of all functions to the user on all pages
- It illustrates the reports in a tabular form. For instance, it displays a well-organized calendar of every week or month.
- It shows a warning if the user tries to input contact information with a name that exists in the history
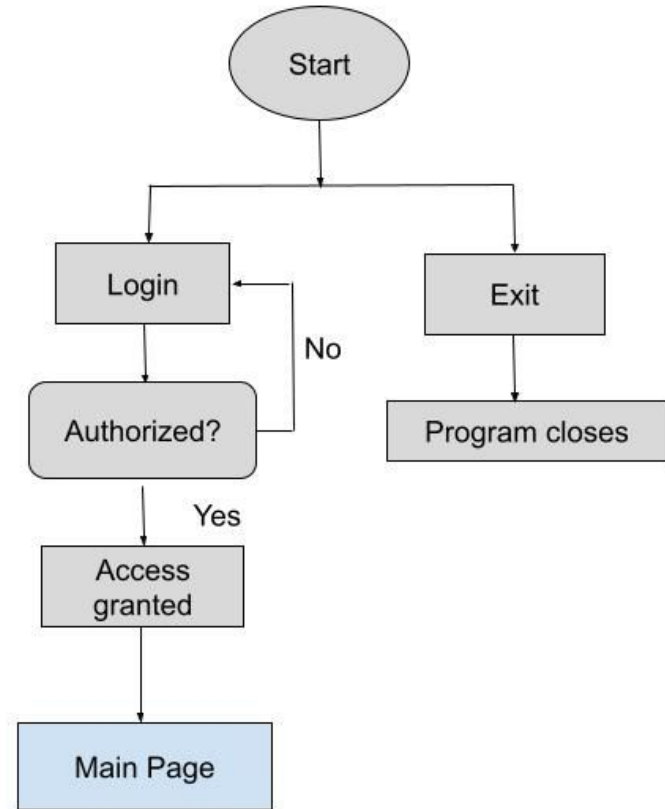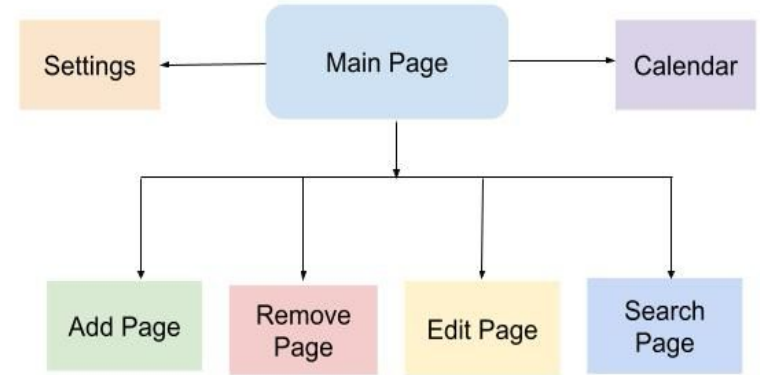- TMS should provide an exit function and thank the user for using this software.

03

Graphical User Experience Design
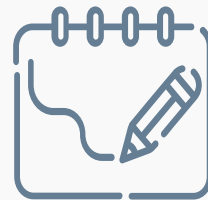
Page Implementation Ideas

Login Window

Main Menu Window

Add Task Window
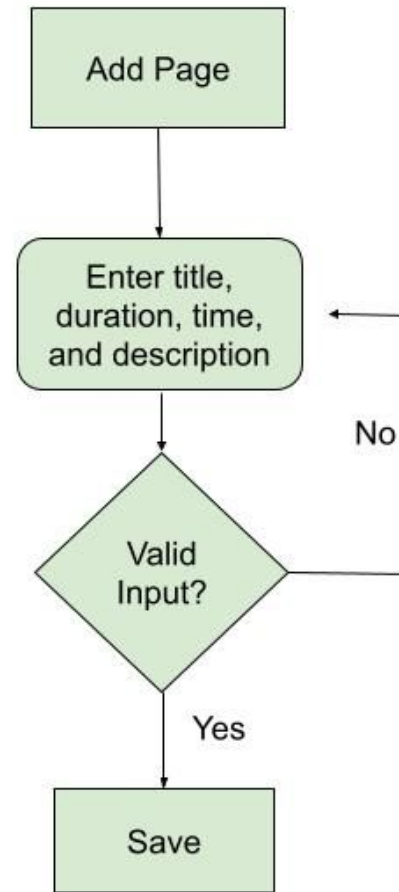
Remove Task Window
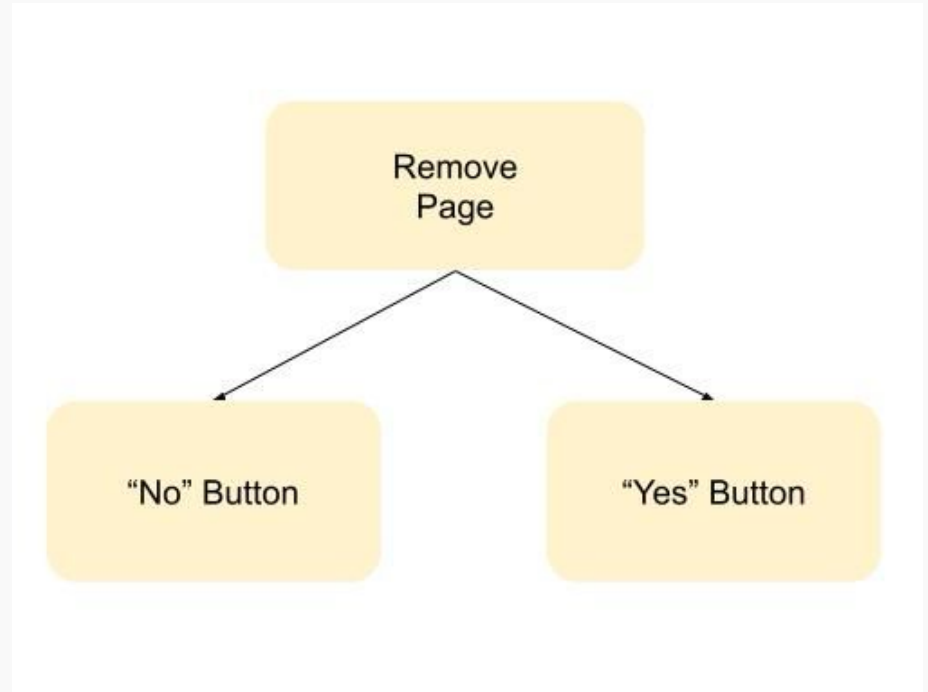
Edit Task Window
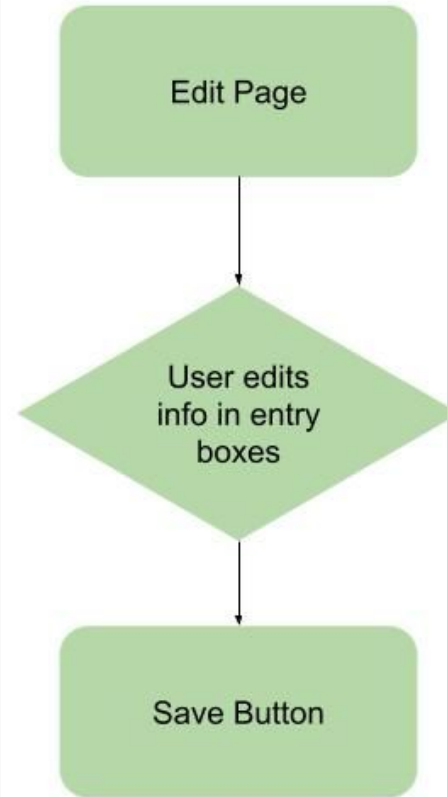
Search Task Window

Settings Window

Settings Page

↓

Admin enters username/password

↓

"Add", "Remove", or "Change" Button
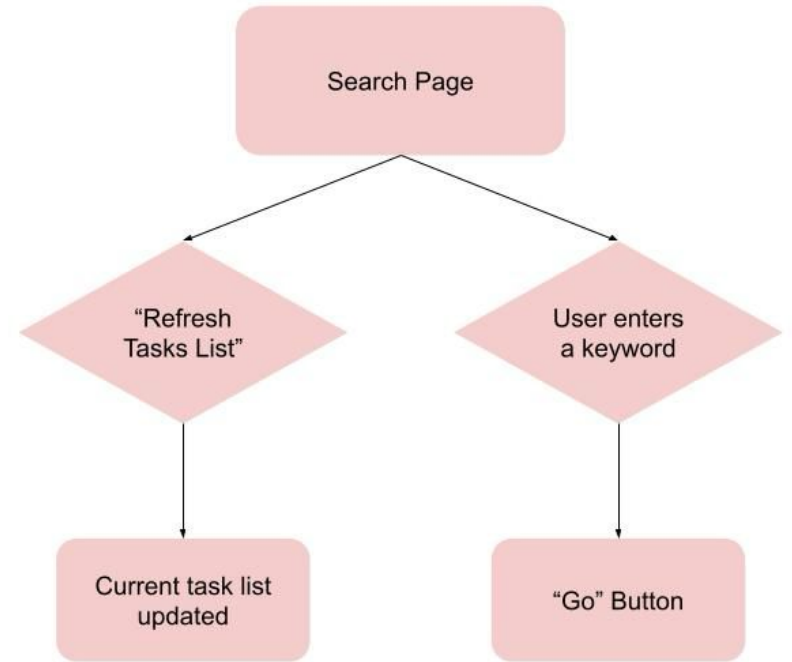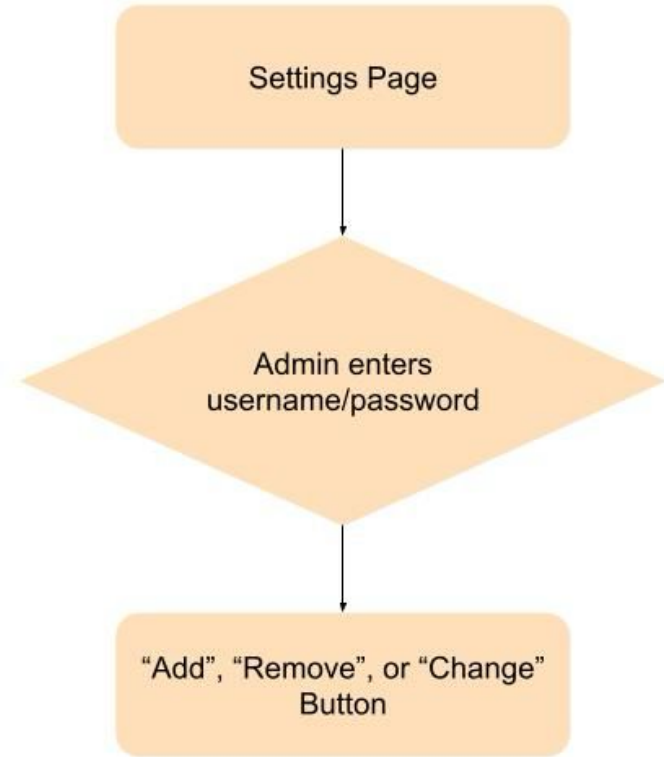
Calendar Window
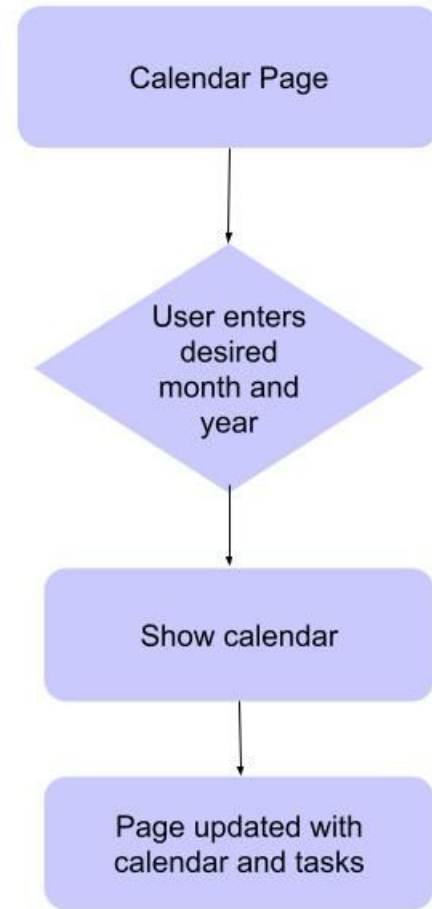
Virtual Environment

```
C:\Users\ramon>cd Downloads

C:\Users\ramon\Downloads>python -m venv .tms

C:\Users\ramon\Downloads>.tms\Scripts\activate

(.tms) C:\Users\ramon\Downloads>python -m pip list
Package Version
------- -------
pip     24.0

(.tms) C:\Users\ramon\Downloads>
```
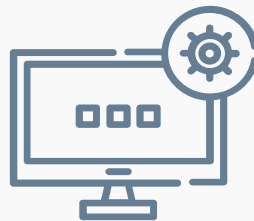
05

Graphical User Interface Design

Python Implementation

Login Window

- 2 entry boxes
- 2 buttons
- 3 pop-ups for each buttons completion

Main Menu Window

- 9 buttons

Add Task Window

- 2 buttons
- 4 entry boxes

Edit Task Window

- 2 buttons
- 4 entry boxes
- 1 list box

Remove Task Window

- 2 buttons
- 2 entry boxes
- 1 list box

Search Task Window

- 3 buttons
- 5 entry boxes
- 1 list box

Calendar Window

- 1 button
- 2 entry boxes
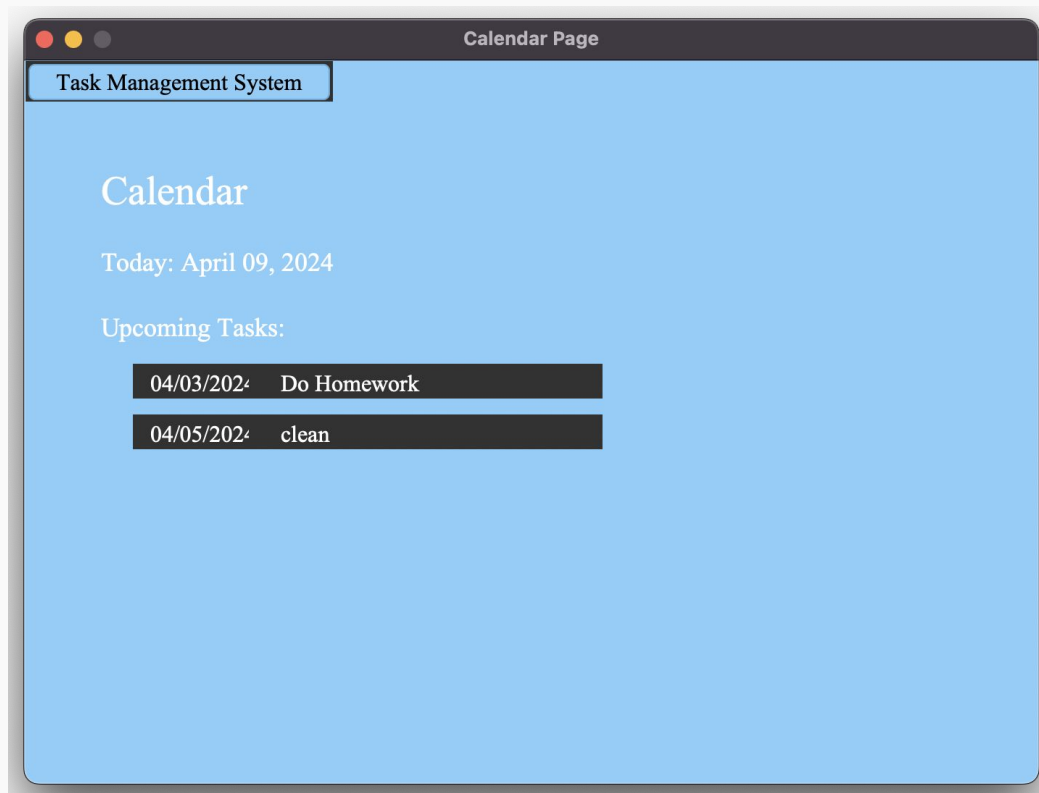
Settings Window

- 5 buttons
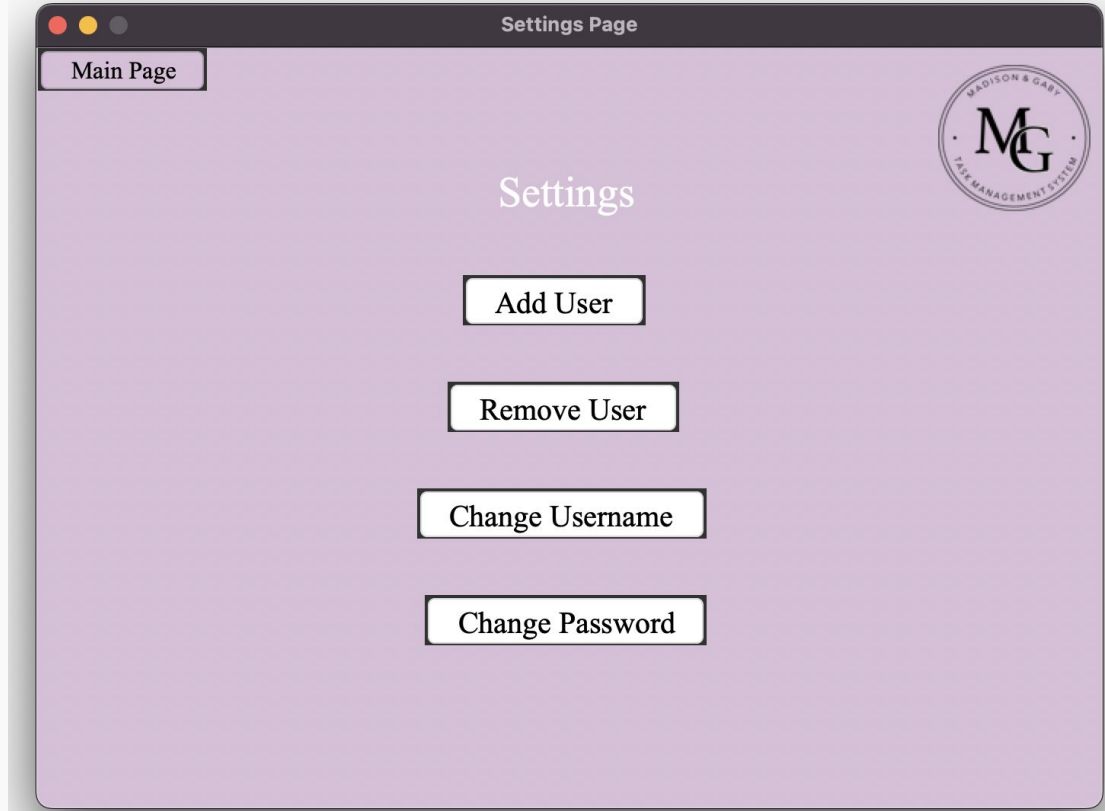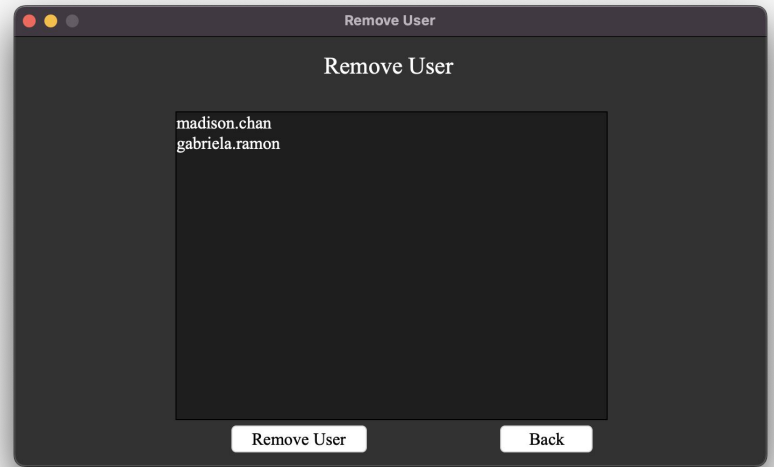
Add User

Add User

Username: [   ]

Password: [   ]

[Add User]   [Back]
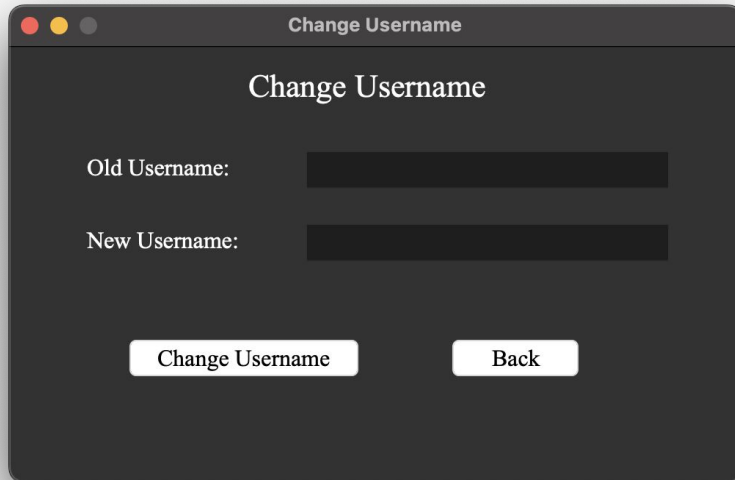
Remove User

Remove User

madison.chan
gabriela.ramon

[Remove User]   [Back]
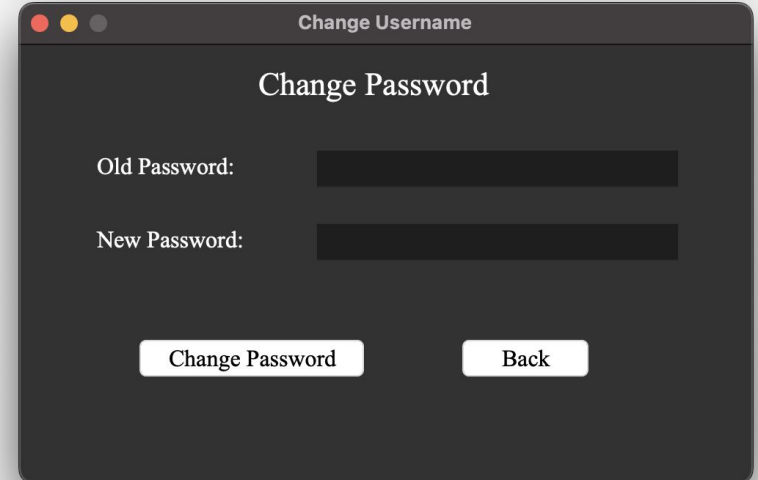
Change Username

Change Username

Old Username: [   ]

New Username: [   ]

[Change Username]   [Back]

Change Username

Change Password

Old Password: [   ]

New Password: [   ]

[Change Password]   [Back]

25

06

Data Storage

- "users.csv" file stores all of the usernames and passwords for the program
- {CURRENTUSER}.csv created for each user and stores all their task information

```python
fields=['Username','Password']

filename='users.csv'

os.chdir('/Users/ramon/Downloads')

with open(filename,'w') as csvfile:
    csvwriter=csv.writer(csvfile)
    csvwriter.writerow(fields)
    csvwriter.writerows(rows)
```
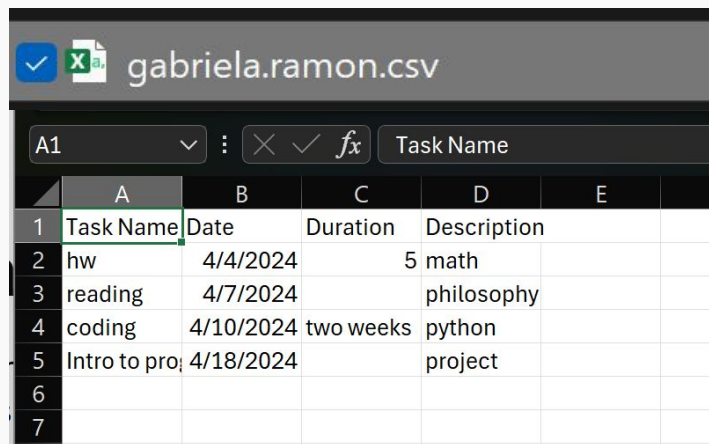
```python
filename=f'{CURRENTUSER}.csv'
```

gabriela.ramon.csv

A1			fx	Task Name
	A	B	C	D	E
1	Task Name	Date	Duration	Description	
2	hw	4/4/2024	5	math	
3	reading	4/7/2024		philosophy	
4	coding	4/10/2024	two weeks	python	
5	Intro to pro|	4/18/2024		project	
6					
7					