

To-Do List Application

Group 3





Team

- Otavio Londero
- Yuan Chang
- Maria Zamora

Goal

- Create an application that helps user manage their to-do list.
- Implement our knowledge in a real life mini project.



SEPTEMBER 2020.

WEEK OF:
07.09 -

| | | |
|-----------|--|--|
| MONDAY | Modern history research task Math homework Water flowers | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| TUESDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| WEDNESDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| THURSDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| FRIDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| SATURDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| SUNDAY | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

TOP GOALS FOR THIS WEEK:

- 1 Lose 2 pounds
 - 2 Sign 3 contracts or more
 - 3
 - 4

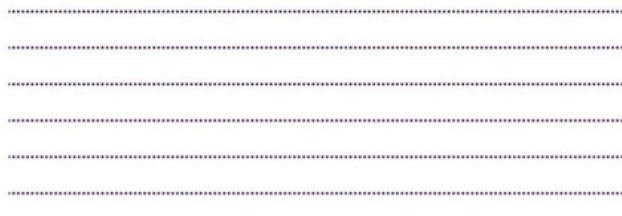
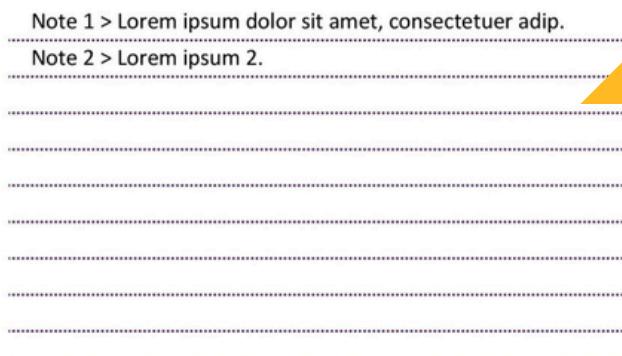
CALL OR EMAIL:

 william.hill@georgetowncamp.com
 Mr. Dwayne White +44 568 66589



GENERAL NOTES:

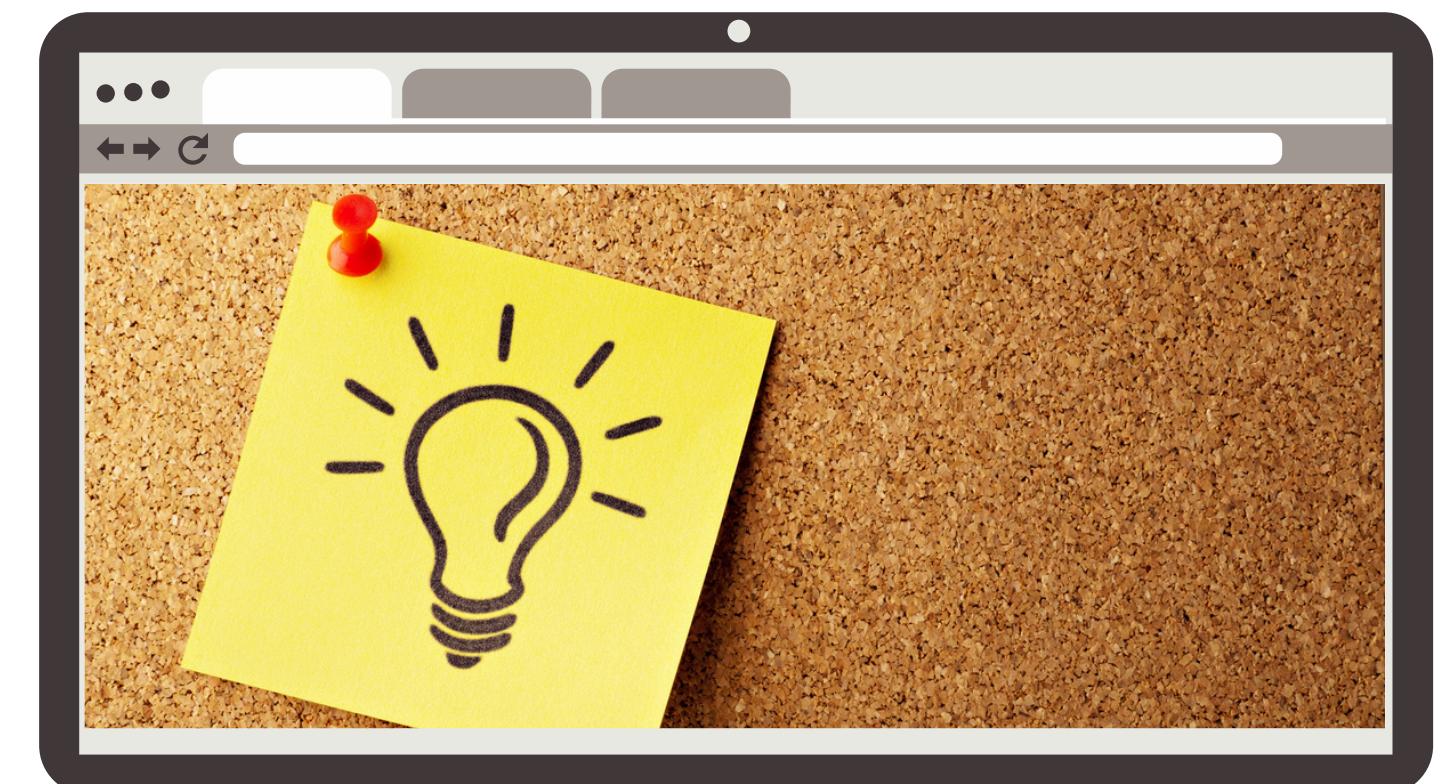
Note 1 > Lorem ipsum dolor sit amet, consectetur adip.
.....
Note 2 > Lorem ipsum 2.



REPEATING ACTIVITIES

| REPEATING ACTIVITIES: | M | T | W | T | F | S | S |
|-----------------------|---|---|---|---|---|---|---|
| Yoga Class (4pm) | | X | | | X | | |
| Swimming (7am) | X | | | X | | X | |
| | | | | | | | |

- Environmental friendly
 - Easy tracking of task
 - Unlimited entries



Features of our app



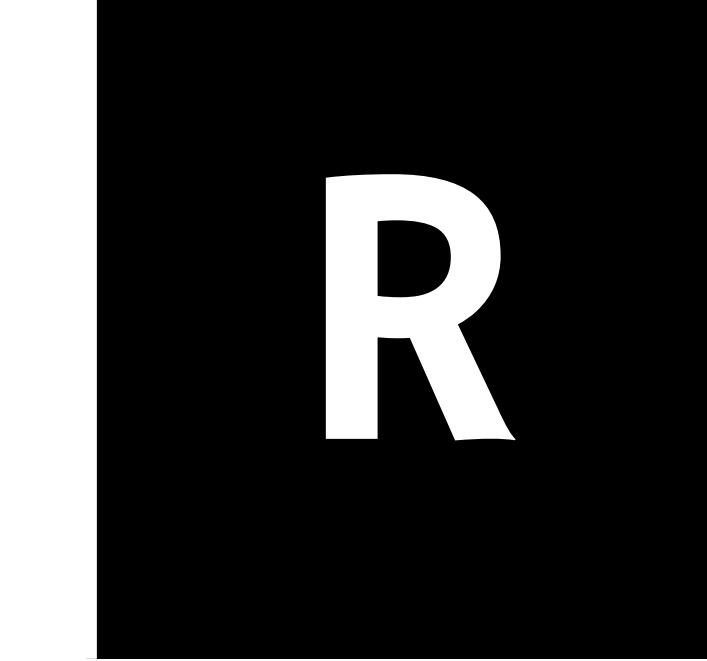
Menu

Allow user to select an option



Adding

User can enter a new task to the to-do list



Removing

User can delete a completed task or an error entered task



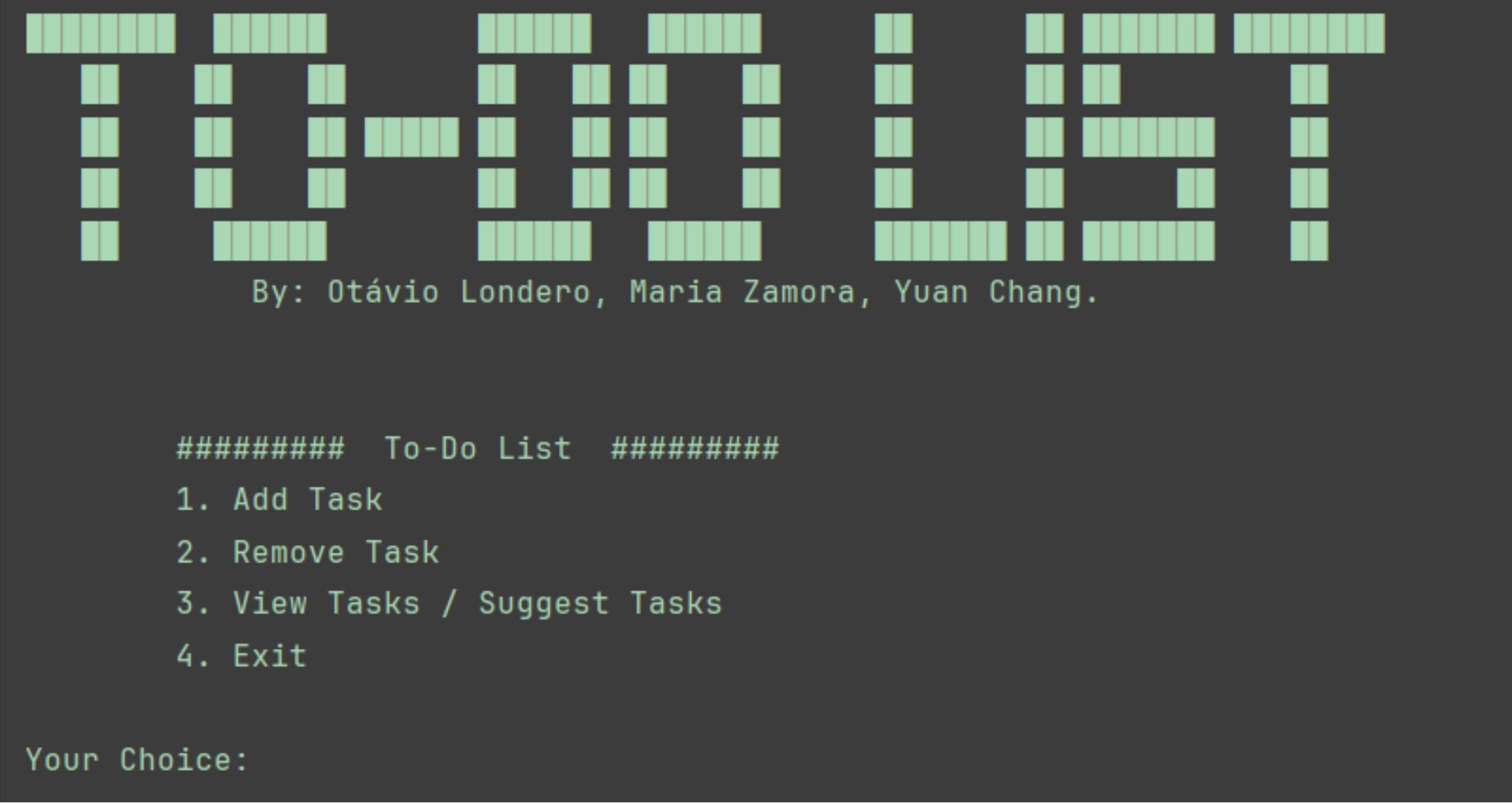
Prioritizing tasks

User can view and choose the filter by priority, date, or suggestion

Menu

M

How it looks like :



The image shows a terminal window with a dark background and light green text. At the top, there are eight small decorative icons made of vertical bars. Below them, the text "By: Otávio Londero, Maria Zamora, Yuan Chang." is displayed. The main menu starts with "##### To-Do List #####". It lists four options: 1. Add Task, 2. Remove Task, 3. View Tasks / Suggest Tasks, and 4. Exit. At the bottom, the text "Your Choice:" is visible.

```
##### To-Do List #####
1. Add Task
2. Remove Task
3. View Tasks / Suggest Tasks
4. Exit

Your Choice:
```

Function :

- task = []
- def different functions
 - add_task()
 - remove_task()
 - view_task()
 - suggest_task()
- menu
 - call the function

Add tasks

A

How it works :

```
Enter your choice : 1
Enter the task : buy books
Enter the priority (1 = high, 2 = medium, 3 = low) : 2
Enter the deadline (YYYY-MM-DD) : 2025-03-30
Your task : buy books with priority : 2 and deadline : 2025-03-30 has been added to the list.
```

Function :

- **set different roles**
 - **task, priority, deadline**
- **use while, if / else**

Add tasks

A

Validations:

Choice can't be wrong number.

```
Your Choice: 5
```

```
Invalid choice! Please, try again.
```

```
Your Choice:
```

Task can't be empty.

```
Enter your choice : 1
```

```
Enter the task :
```

```
Task can't be empty
```

Validations:

Priority can't be wrong number or empty.

```
Enter the task : buy meat
Enter the priority (1 = high, 2 = medium, 3 = low) : 5
Invalid priority. Please enter 1, 2, or 3
Enter the priority (1 = high, 2 = medium, 3 = low) : 0
Invalid priority. Please enter 1, 2, or 3
Enter the priority (1 = high, 2 = medium, 3 = low) :
Invalid priority. Please enter 1, 2, or 3
```

A

Date can't be past time & wrong format.

```
Enter the deadline (YYYY-MM-DD) : 1994-03-27
The deadline can't be past date.
Enter the deadline (YYYY-MM-DD) : 2025-02-31
Invalid deadline. Please enter in YYYY-MM-DD format.(Ex. 2025-05-31)
Enter the deadline (YYYY-MM-DD) : 2025-5-6
Invalid deadline. Please enter in YYYY-MM-DD format.(Ex. 2025-05-31)
```

R

Removing tasks

How it works :

```
Please enter the name of the task to remove:>? Call the Agency  
Are you sure you want to eliminate Call the Agency ? (Y/N)>? Y  
Task Call the Agency has been removed from the list
```

```
Are you sure you want to eliminate Call the Agency ? (Y/N)>? N  
Task Call the Agency hasn't been removed from the list
```

Validations:

```
It is no task to delete. Go add some tasks first.
```

```
Please enter the name of the task to remove:>? Call mom  
Sorry the name is not in the list, please enter the name of the task to remove:
```

Prioritizing tasks

P

How it works :

```
Do you want to sort? (Y/N): >? y
Sort by Priority (P), Date (D), or Suggestion (S)? >? p
Task: Activity 3 | Priority: 1 | Deadline: ['2025-2-25']
Task: Activity 2 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 1 | Priority: 3 | Deadline: ['2025-2-20']
```

```
Do you want to sort? (Y/N): >? Y
Sort by Priority (P), Date (D), or Suggestion (S)? >? d
Task: Activity 2 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 1 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 3 | Priority: 1 | Deadline: ['2025-2-25']
```

```
Do you want to sort? (Y/N): >? y
Sort by Priority (P), Date (D), or Suggestion (S)? >? s
Task: Activity 2 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 1 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 3 | Priority: 1 | Deadline: ['2025-2-25']
```

Validations:

```
Do you want to sort? (Y/N): >? si
Invalid choice! Please, try again.
Do you want to sort? (Y/N):
>?
```

```
Nothing to see here. Go add some task first.
```



How our team worked ?

Timeline



Planning



Coding



Reviewing



Testing



Presentation



To-Do-List Public

Watch

main ▾ 5 Branches 0 Tags Go to file Add file Code

0Londero Merge pull request #11 from 0Londero/View-task c45d43b · 3 hours ago 35 Commits

.idea Final version, menu added and minor bug fixes.

README.md small patch

TDL-part1.pdf Final version, menu added and minor bug fixes.

TDL-part2.pdf Final version, menu added and minor bug fixes.

To-Do-List.py Added menu validation and menu display file.

feature_add.py Merge branch 'main' into Add-task

feature_delete.py Added a validation into the delete function.

feature_menu.py Added menu validation and menu display file.

feature_view.py Added a validation into the delete function.

4 hours ago
yesterday
4 hours ago
4 hours ago
3 hours ago
3 hours ago
4 hours ago
3 hours ago
4 hours ago

5 Branches for each feature
Everything is merge to Main

Friendly interface helped us check the changes, see comments.

| Branch | Updated | Check status | Behind | Ahead | Pull request |
|--------------|----------------|--------------|--------|-------|--------------|
| Remove-task | 7 minutes ago | | 6 | 5 | |
| View-task | 37 minutes ago | | 2 | 0 | |
| Add-task | 38 minutes ago | | 7 | 3 | |
| Suggest-task | yesterday | | 7 | 1 | |

Task Division

Otavio

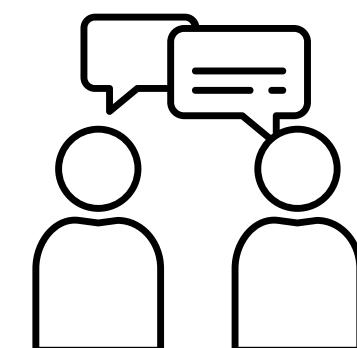
Set up GitHub repository with branches
Implement the view_task() function
Merge work in the final version

YUAN

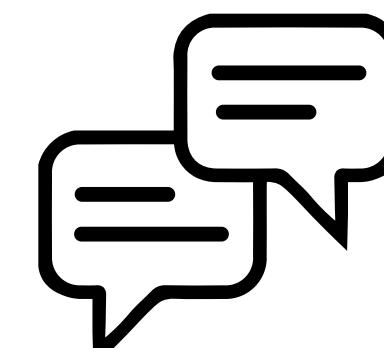
Implement add_task() function
work on handling user input correctly
Review deadlines and progress

Maria

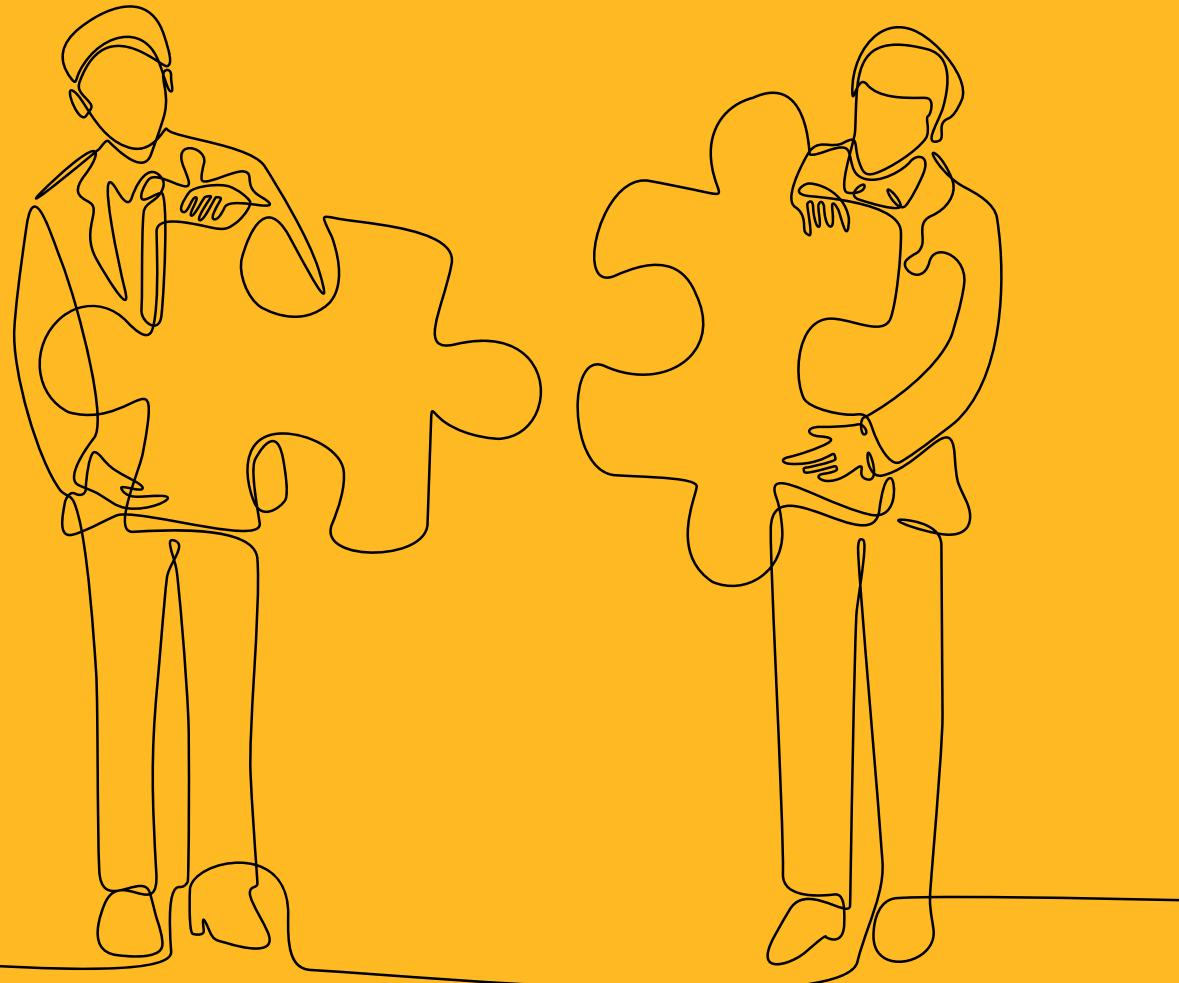
Implement remove_task() function
work on suggest_task()
Ensure logic works properly



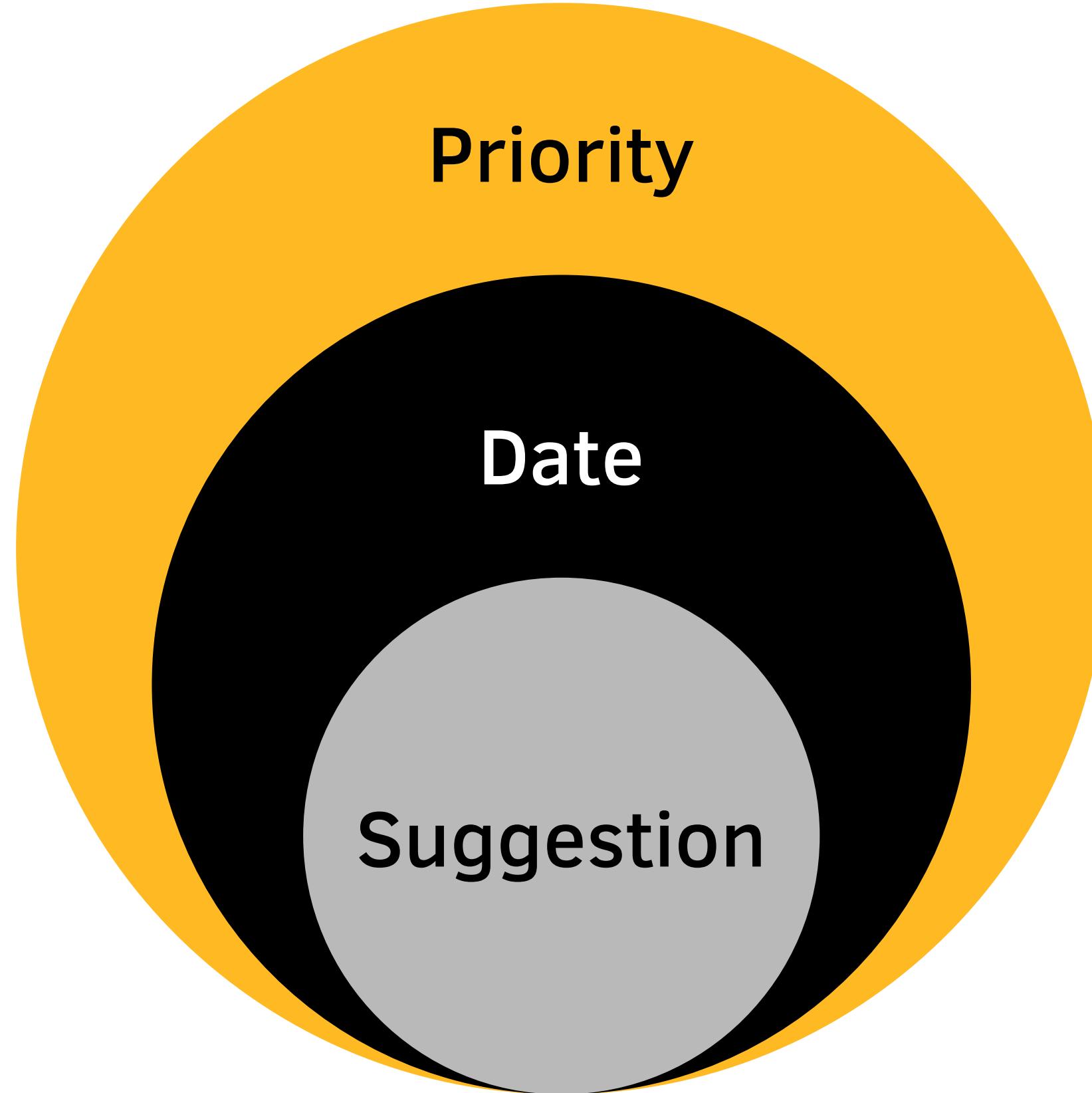
In- person Communication
Chat via slack



Challenges



- Learning about GitHub and its functionalities
- Defining if we are going to use a list, a dictionary or a combination.
- Defining the same name of the main variables.
- Coding convections.



AI logic implementation

- Users have the option to sort the view and decide their preference.
- The suggestion option will show you the priority task by date and Priority .

Entries on Monday January 17

- | | | | |
|--|-----|-----|-----|
| • Call the agency - 3 - 2025-02-18 | (2) | (1) | (4) |
| • Write cover letter - 2 - 2025-02-20 | (4) | (4) | (3) |
| • Buy groceries - 1 - 2025-02-18 | (1) | (2) | (1) |
| • Buy tickets for concert - 1 - 2025-02-19 | (3) | (3) | (2) |

```
Do you want to sort? (Y/N): >? y
Sort by Priority (P), Date (D), or Suggestion (S)? >? s
Task: Activity 2 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 5 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 8 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 11 | Priority: 2 | Deadline: ['2025-2-18']
Task: Activity 1 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 4 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 7 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 0 | Priority: 3 | Deadline: ['2025-2-20']
Task: Activity 3 | Priority: 1 | Deadline: ['2025-2-25']
Task: Activity 6 | Priority: 1 | Deadline: ['2025-2-25']
```

Priority IO tasks when you have a huge list

Date - Priority

Reflections



■ Managing GitHub

- It is important to study new software tools before to use it.
- Follow step by step instructions.

■ Communication

Misunderstanding information in the group, it is better to ask again or show something visual to give your point of view.

Learning Experience

1 Task

Planning and assigning task are the key to complete all the task.

2 New software tools

GitHub (structure, updates, pull request)
Manage of GitHub project in PyCharm.

3 Coding convention

It is important to determine the coding convention in the group to be aligned.

4 Coding options

We learned from each other new options to add to the code.

Improvements

Planning

Keep a file with the planning strategy and highlight important considerations

Code quality

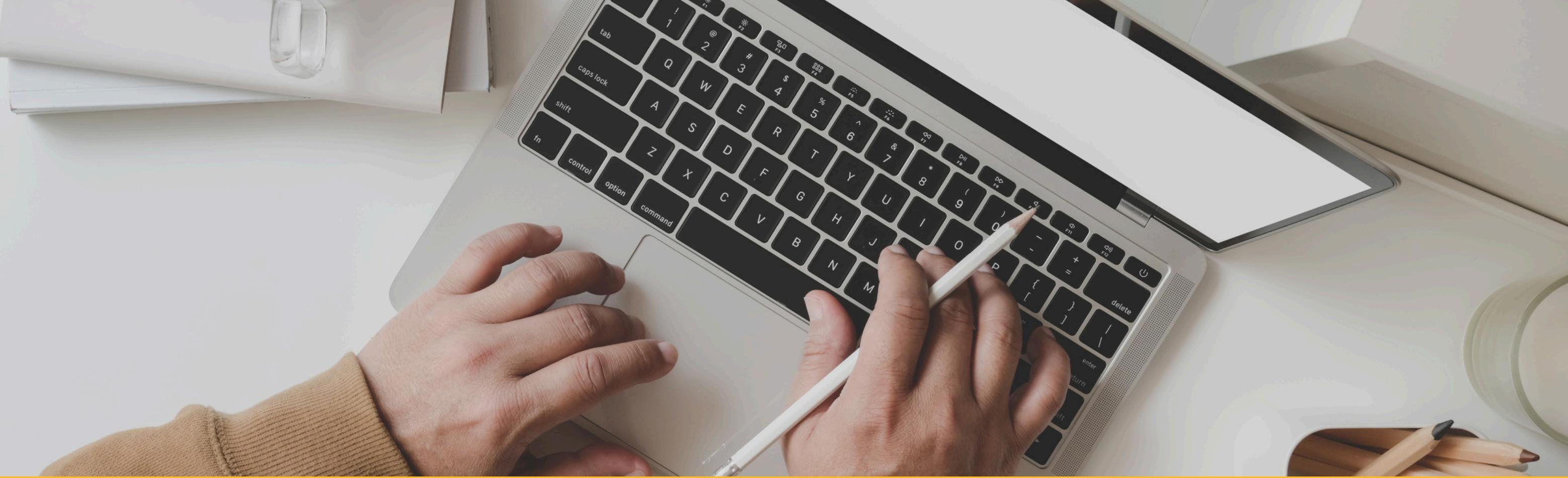
Coding convention

Use meaningful variable names

Avoid duplication of variables

Collaboration

Discuss updates or new ideas to brainstorm possible solutions or divide team work.



Thank you!