Todo List Management System

22000481 Yohan Yoon

Description:

I implemented a Java program that can manage my schedule for the whole week. To achieve this, I made 8 to-do lists for deadline, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday so that I could add a schedule for a specific day.

The first time you initialize the program, it asks you for the first day of the semester and it automatically calculates the number of weeks you are in and displays it on the screen. Then you can add a todo or a deadline or a weekly schedule which has different features each. Deadline and weekly are children of todo, and they all share the same interface. You can also edit or delete the list items and save them to a text file so that whenever you run the program, your previous actions would be there. There is also a search feature that helps you search for the deadline for a specific schedule.

Utilizing this program, you can efficiently manage your schedule and keep track of things you did and have to do.

Github link: https://github.com/yoyohanyy/FinalProject.git

UML diagram:

■ Main
- list: ArrayList <todolist></todolist>
- FILE_NAME: String
+ main(String[] args): void
+ initializeLists(): long
+ initialize(): long
+ initialize(String date): long
+ manager(long currentWeek): void
+ printLists(): void
+ addToList(String[] parts): void
+ deleteFromList(String[] parts): void
+ editList(String[] parts): void
+ searchList(): void
+ saveList(long currentWeek): void

■ TodoList		
- day: String		
- items: ArrayList <todo></todo>		
+ TodoList(String day)		
+ getDay(): String		
+ addItem(String type): int		
+ addTodo(String title): int		
+ addDeadline(String title, String of	deadline): int	
+ addWeekly(String title): int		
+ updateItem(): int		
+ deleteItem(): int		
+ searchList(): int		
+ printList(): void		
+ saveToFile(PrintWriter writer): vo	oid	

□ Todo
- title: String
+ Todo(String title)
+ getTitle(): String
+ setTitle(String title): void
+ getDDay(): long
+ getInfo(): String
+ toString(): String

- title: String
- deadline: String
+ Deadline(String title, String deadline
+ getTitle(): String
+ setTitle(String title): void
+ getDDay(): long
+ getInfo(): String
+ toString(): String

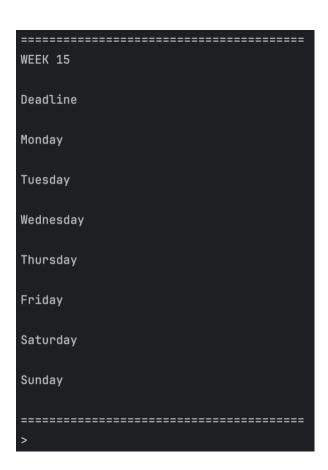
Deadline

	Weekly		
- title:	String		
+ We	ekly(String title)		
+ get	Title(): String		
+ set	Fitle(String title): void		
+ getl	nfo(): String		
+ toS	tring(): String		

User's guide:

Initialization

Enter the date of the first day of the semester in yyyymmdd format: 20240304



bbA

> add todo Monday

Enter the title: Submit java presentation ppt
item added.

> add deadline

Enter the title: Java presentation

Enter the deadline: 0613

item added.

> add weekly Thursday

Enter the title: Saesae Bapgo

item added.

Edit

> edit Thursday

Enter the title of the item to edit: DB offline

Enter the change: DB online

item updated.

Delete

> delete from Thursday

Enter the title of the item to edit: DB online item deleted.

Search

> search

Enter the title of the item to search: OS assignment

The number of days left until OS assignment 's deadline is 5 days

Save

> save

Data saved successfully.

Result

```
_____
WEEK 15
Deadline
- Java Presentation (0613) D-0
- OS assignment (0618) D-5
- DB team project (0621) D-8
Monday
- Submit java presentation ppt
Tuesday
- Print signature paper
Wednesday
Thursday
- Saesae Bapgo (weekly)
- Calculus tutoring 19:00
- DB offline
Friday
- No calculus class
- Interview 17:00
Saturday
- Programming Studio Assignment
Sunday
```

todolist.txt

20240304

Deadline Java Presentation 0613

Deadline OS assignment 0618

Deadline DB team project 0621

Monday Submit java presentation ppt

Tuesday Print signature paper

Thursday Saesae Bapgo (weekly)

Thursday Calculus tutoring 19:00

Thursday DB offline

Friday No calculus class

Friday Interview 17:00

Saturday Programming Studio Assignment