

# **CSCI-212 Final project report**

**Project Title:** Student Planner Organizer

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**Submitted to:**

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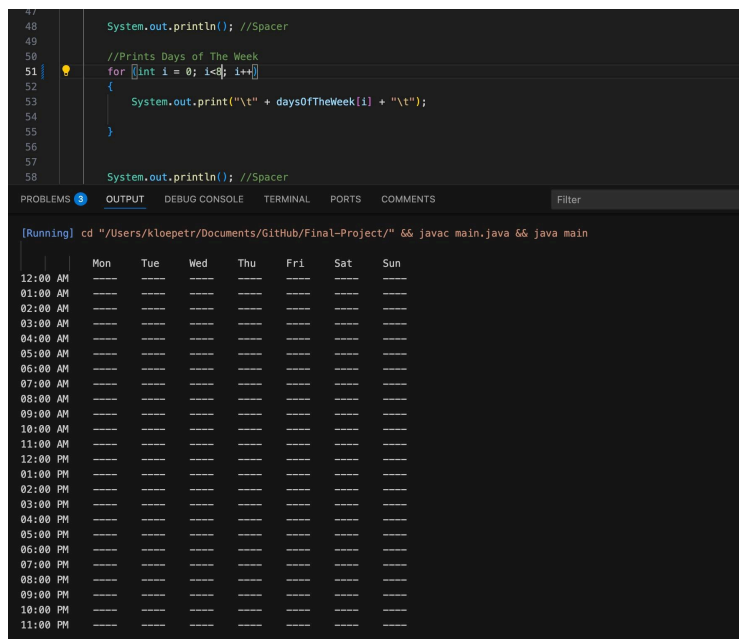
# 1. Project Implementation Overview

Managing day to day tasks can be difficult to track. We want to create a system that tracks student's daily activities with time frames, allowing them to record every day of the week and what they will be doing throughout the day. Students can easily update, add, delete, and retrieve their schedule.

We brainstormed different versions of how we want to integrate GUI and Java.

**Version 1** consists of a menu displayed through the terminal that Jason and Kloe worked on, and we will add, delete, replace and save through inducing the 2D array. This was the skeleton of our project.

This version was successful, but included hardcoding the menu, and we could not figure out a way to integrate the GUI.



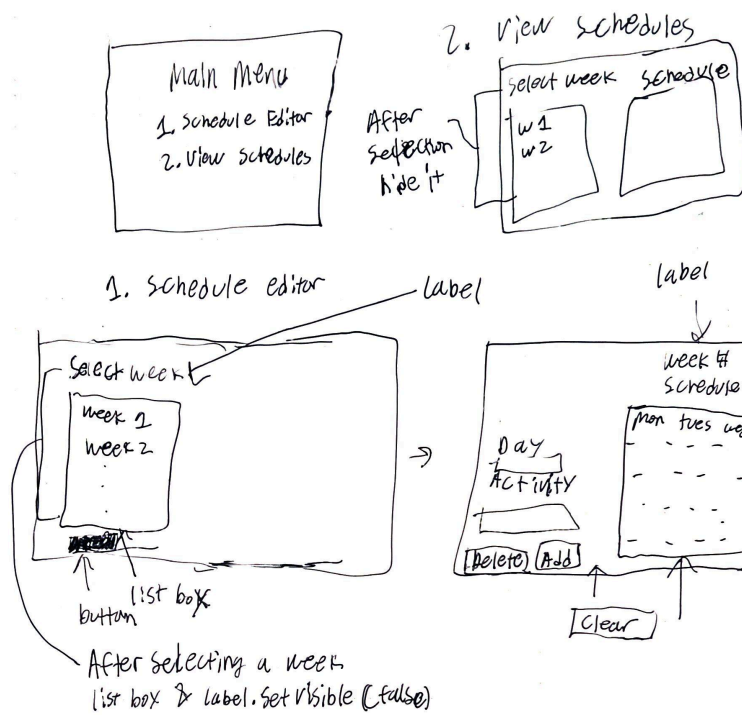
```
47 System.out.println(); //Spacer
48
49
50 //Prints Days of The Week
51 for (int i = 0; i < 7; i++)
52 {
53     System.out.print("\t" + daysOfTheWeek[i] + "\t");
54 }
55
56
57 System.out.println(); //Spacer
58
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS Filter

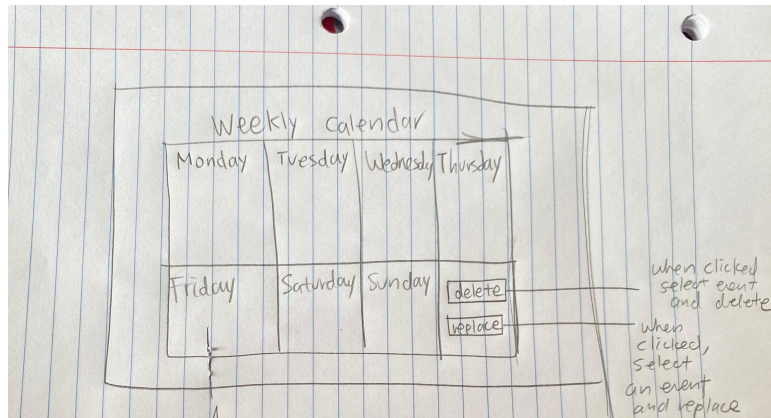
[Running] cd "/Users/klopetr/Documents/GitHub/Final-Project/" && javac main.java && java main

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
12:00 AM							
01:00 AM							
02:00 AM							
03:00 AM							
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**Version 2** consists of a multi-page GUI illustrated by Jason. The GUI has a main menu, and you can select activity by entering a number. Then, you can view the schedule and select the week through a dropdown menu and the schedule of the week will appear on the right. We did not implement this idea since we were not familiar with the multi-pages display feature on IntelliJ and multiple team members struggled to get the feature working on VScode.



**Version 3** consists of a weekly calendar illustrated by Kloe. This two by four consist of a menu on the bottom right with the option for the user to delete and replace. We later added two additional buttons for add and save. This became the final version we stuck with, as it is simple but efficient, and every group member decided that it was a challenging yet doable task.



### Implemented Features

- Daily planner: Users can add, update, and delete events from their planner.
- View Planner: User can view all events added and form a complete weekly agenda.

### Unimplemented Features

- Allowing users to add additional weeks.
- Allowing users to view previous/future weeks.

### Additional Features

- Export Reports: Users can export agenda to txt format, enhancing usability.

## 2. Work Distribution and Collaboration

### Programming and file handling:

#### Project Timeline

Skeleton (Due: 5/2/25)

#### To Do List

Task	Contributor	Date of Completion	Description
Add Time Function	Kloe	4/5	A loop of all the hours in the day.
Fix Time Format	Kloe	4/5	Formatting issue; Jason decided to hardcode it with a 2D array.
Finished Input	Jason	4/6	It's in the Jason Branch.
Fix Input(4/6)	Jason	4/13	you can put inputs more than 8 characters and not misformat
Delete Input	Jason	4/13	User should be able to delete their input.
Replace Input	Jason	4/13	User should be able to replace their input.
Print All	Jason	4/19	Include updated version, print entire calendar (skeleton in terminal).
Fix Hard Coding	Jason + Kloe	4/25	We abolished the hard coded code
Exception Handling	Kloe	4/21	Input validation for user input (non integer input).
Exception Handling	Jason	4/25	Input validation for user input (12am-11pm).
**Additional Buttons **	Kloe + Jason	4/22	Add, delete, replace, save
**comments **	Kloe + Jason	4/25	improve code readability

### GUI and digital design:

#### GUI

Task	Contributor	Date of Completion	Description
General skeleton	Kloe	4/25	Added a 2 by 4 block, along with Pastel colors
Put title on top	Jason	4/26	Title was originally added in the center, now it is on top.
Resizing output	Jackson + Ne Boi	4/27	Fix title, fixed auto size, and fixed font sizes to adjust to screen
**research swing **	Jason + Ne Boi	4/14	Researched different java functions and what they do
Event Text Area	Jason + Jackson	4/29	Included a Text area within the dat panel to add the events too
**Event refresh panel	Jackson + Neboi	5/1	Made the panel refresh to update events
Time except handle	Jason + Ne Boi	4/14	Handled exceptions in event time inputs
**Upgrade Replace Event button	Ne Boi	4/19	Added a working function to replace event
Improve buttons	Jackson + Ne Boi	4/20	Made replace event and delete event function with the text areas

We worked together by hosting mandatory meetings every Monday and optional meetings on Fridays. Typically, we work throughout the week and present the progress with the rest of the group for improvement and criticism, as well as reassigning work to each member. We colab with each other by sharing a Github repository to manage updates.

### **3. Future Development Plans**

After completing the project, we plan to extend the project and enable dynamic updates to the menu as new activities are added, replacing the current static “view all” feature. Additionally, we intended to implement a feature that allows users to add multiple weeks and allowed them to plan events further in advance.

This project has been a valuable introduction to Java and GUI development for all our team members. Each one of us has gained practical experience and a deeper understanding of the development process of file handling. A major motivation behind our work has been to create a finished product that we can proudly showcase to future employers as a personal portfolio project.

### **4. Challenges and Solutions**

One of our biggest challenges was a lack of effective communication, along with different opinions on the GUI design. Several design ideas were proposed, leading to a conflict. To address this, we implemented a strategy of crafting our own prototype versions prior to the weekly meetings, allowing the rest of the group to evaluate and vote on their preferred approach. We also created lists of pros and cons for each version and adjusted our development schedule accordingly.

Another significant challenge was that we did not set a clear and defined deadline, which led to delays in progress. From this experience, our key takeaway is the importance of setting clear expectations and timelines within the team. Moving forward, we want to work on better communication and ensure everyone is on board with the progress with the project.