

# UI/UX Case Study

## PART I

### Exer 1: Optimization of Canvas Website's UI to Improve User Experience

#### Client/Company/Project type

Canvas for student is where students can view their enrolled course, see and submit assignments and or task, view their grades and access course materials. This is a design challenge where the designer will attempt to make an improved design of Canvas website for a better user experience.

#### Project date

##### Start of Case Study

This project is my most recent project and it started on 23<sup>rd</sup> of September 2023 and will most likely last till January 2024.

##### User Interview

User interview was conducted on October 5<sup>th</sup>, 2023 and ended on October 6<sup>th</sup>, 2023. The interview method was the use of Google forms and distributed by the use of online communication platforms like Messenger and Discord.

##### Analysis on Canvas website

The analysis was conducted as soon as the case study began which was on September 24<sup>th</sup>, 2023 up until the user interview have been conducted and will most likely end right before the solution phase begins.

##### Designing

The design started on October 15 and in the of a week I have managed to finish all thing necessary to get started at the design prototype or what will the new design will look like to improve most of the pain points mentioned.

### Exer 2: My Role

I'll be in charge with the color scheme of the interface, I'll also be optimizing the placement of objects on the website, and the hierarchal concept of the website also I'm in charge of redesign as well as the research for improving user experience.

#### Project Summary/About this Project

As of now a plethora of schools and universities use canvas to give task, provide resources, and communicate to students, the interface's learning curve should be low so that students can focus more on their task rather than having a hard time locating where resources are because of the unfamiliar platform and confusing. The improvement and redesign of the interface can improve the

overall user experience when using the product. Redundancies exist in the product and the goal is to reduce if not remove it completely.

### Exer 3: The challenge

- **Problem Statement**

As a user of canvas for students for 3 years now I have encountered issues and problems with the canvas website. The Canvas website's interface is full of redundant objects, while the UI is easy in the eyes on the first glance after a while when browsing through the website because you're looking for something, you'll notice that there's a bunch of Icons that is new to you and some of the navigation is rendered obsolete because of how they are placed in the UI of the website other than redundancy, the website did not follow the consistency of button icons based on functionality, and the website contains some annoying glitch that have been overlooked.

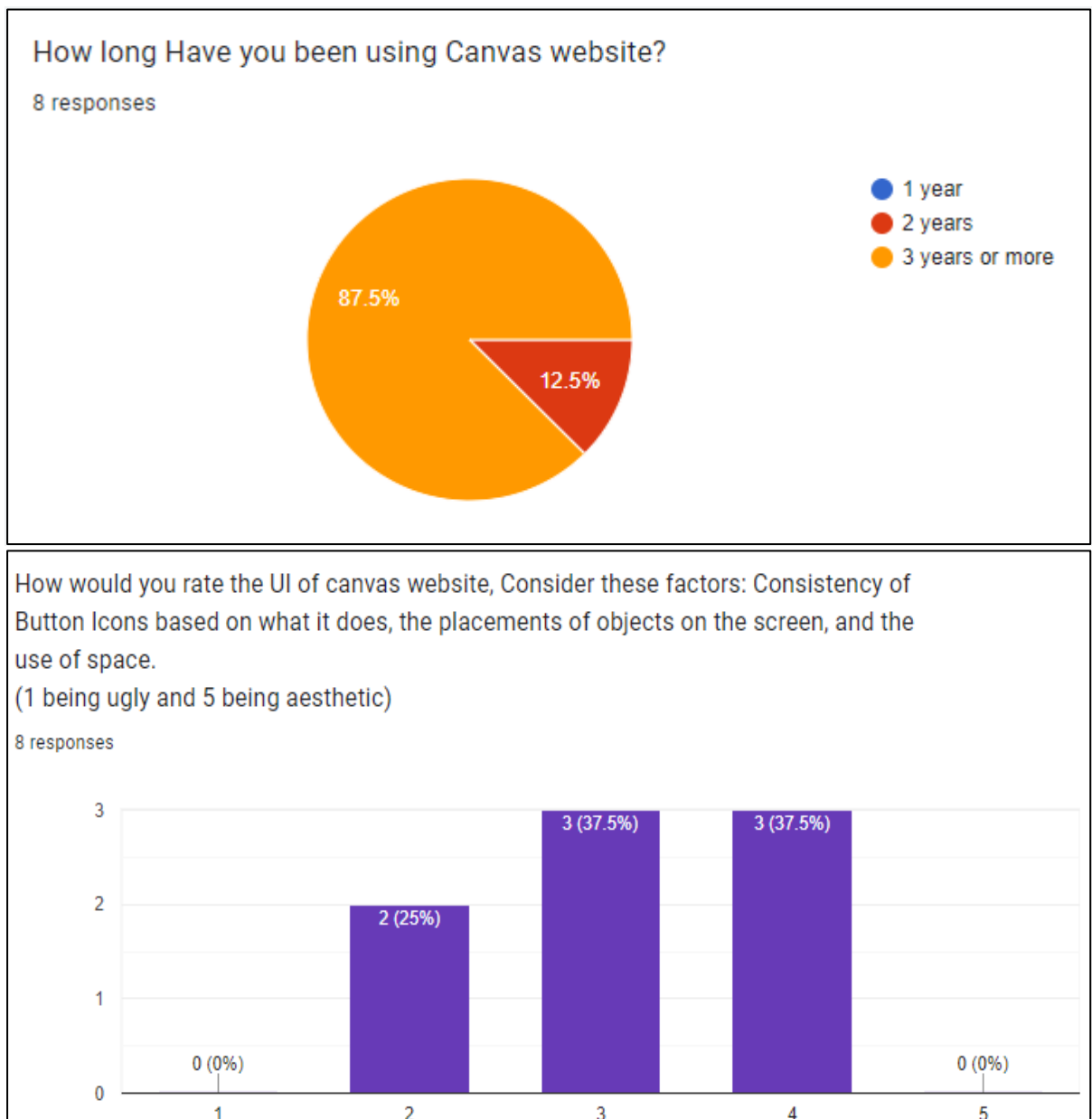
Here are the specifics on what those problems are:

1. **Confusing Button Icons and Naming Conventions** – In the Home page or as Canvas calls it "Dashboard" you'll notice that there are a lot of menu/setting button.
  - First the 3 dots in a vertical orientation that is attached on the top right corner of each course you have enrolled, that type of icon are commonly used by many websites and apps as an icon for settings but in canvas it is used as a customizing icon, that is misleading in itself and problematic because it compromises the mental model of the users have on the settings which leads to confusion. Also the lowercase "i" icon is usually used for information but in canvas it is named the help button.
  - Second is the select orientation icon, now for this button you usually have buttons each for every orientation the website's interface can do or you can toggle the button. The functionality of this button should be just to change the orientation while still keeping every content the default orientation has nothing more nothing less because if a specific orientation has an added feature that the default don't have then it's not a different orientation of interface anymore but a form of navigation to a feature and to add to the confusion the orientation in canvas website are called list view and card view, the list view is the one with a confusing UI.
2. **Confusing groupings and use of buttons** – canvas navigation contains buttons with each of its own functionality: account button, courses button, calendar button, inbox button, history button, commons button, and the help button. The navigation is on a vertical orientation in that order. The problem here is that the commons button is related to authorizing canvas to process your personal data elements like name, email address, Canvas User ID, Canvas login name, Canvas Avatar, and IP Address this type of button should be inside the account since it related to your accounts personal info. Another problem would be is that the commons button doesn't have a description and without that it could be intimidating to users to grant authorization this could easily be solved by having an information button but that button is used as a help button and is in the navigation bar.

- **User Interviews**

I conducted my user interview through the use of Google Forms. The questions I had for the users are: “How long have you been using Canvas website?”, “How would you rate the UI of canvas website, Consider these factors: Consistency of Button Icons based on what it does, the placements of objects on the screen, and the use of space. (1 being ugly and 5 being aesthetic)”, and “When using Canvas Website Has there been any issues you’ve encountered in the interface.” These questions are constructed with the experience of the user in mind to see how much redesigning I should do and to the website’s UI, what are the things that needs optimization, and to know if there are other struggles that user’s experience that needs to be fixed.

The results of the questions are the following:



When using Canvas Website has there been any issues you've encountered in the interface (it can be anything even small details concerning UI).

8 responses

Yes, a lot. There are many visual bugs that can be seen and experience such as the student can edit their grades although it doesn't save

yes, lots of redundant directories such as the modules that also include the quizzes of the topics and lots of flaws such as editing the grades that can be manipulated by having an image as a submitting option

the navigation is not good and the interface design is not good

Delay in response time when clicking some menus in the interface

Yes, Elements take longer to load than before. There are also times when I feel overwhelmed by the amount of things on the screen.

The courses tab can be quite confusing since it only shows the text of the course, it can also be observed in other tabs.

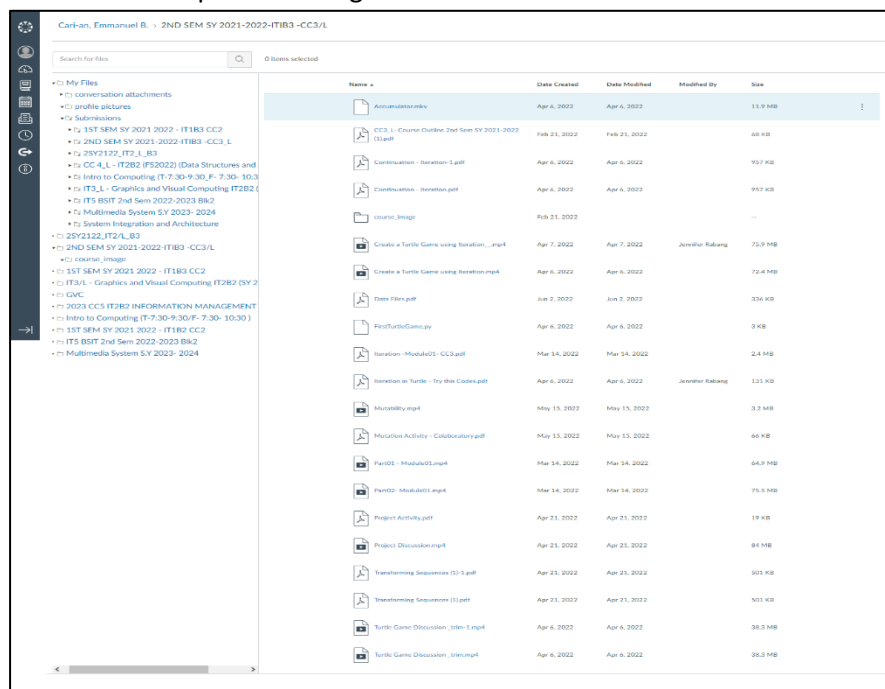
So far nothing much

There is but well mostly just because of poor internet connection because the base of the canvas is not in the philippines so ig it matters

## • Pain Points

1. Bugs that interferes with the students' ability to efficiently navigate the website's files.

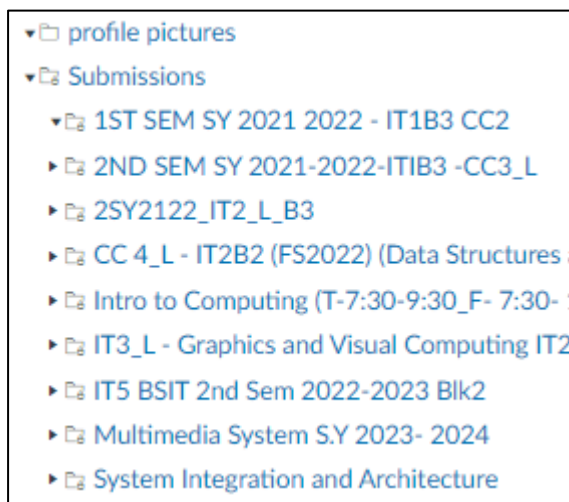
Here is an example of the Bug:



This is the full interface of the files for the account you can access every resources in the published courses here.



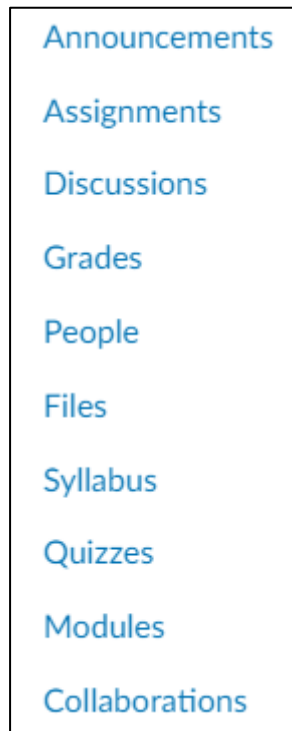
In this section of the interface you can see the dropdown indicators. If you click a certain dropdown it'll do its thing and show you the other folders it contains but if you click a folder's dropdown and it changes the orientation of the dropdown icon but with nothing to show like the profile pictures folder.



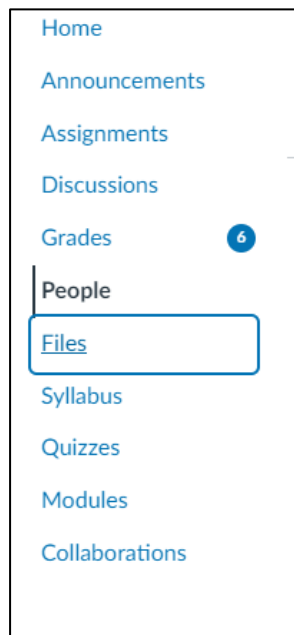
This is where the bug happens, now if you click the submission again it'll close but when you click it again it won't open. This will be frustrating if user encountered this and doesn't know the details of why this happened. I discovered this bug when I was trying to look for reviewers and this made me gave up looking for resources on the website.

2. Poor choice of colors and use of space for buttons that students frequently use like the ones in the courses tab the options are crammed tightly making the users eyes wander all over the page. As you can see in the screenshots the same colored text makes it hard for the eyes to find what to focus on.
3. The interface has a lot of redundancy this includes the dashboard and the courses tab in the navigation. The dashboard has a calendar that you can click to see the calendars UI and the navigation also has a calendar tab, now the calendar in the dashboard is redundant because the navigation tab is always there no matter what actions you do.

4. Mis-clicks because of invisible borders at the courses tab here is the example:

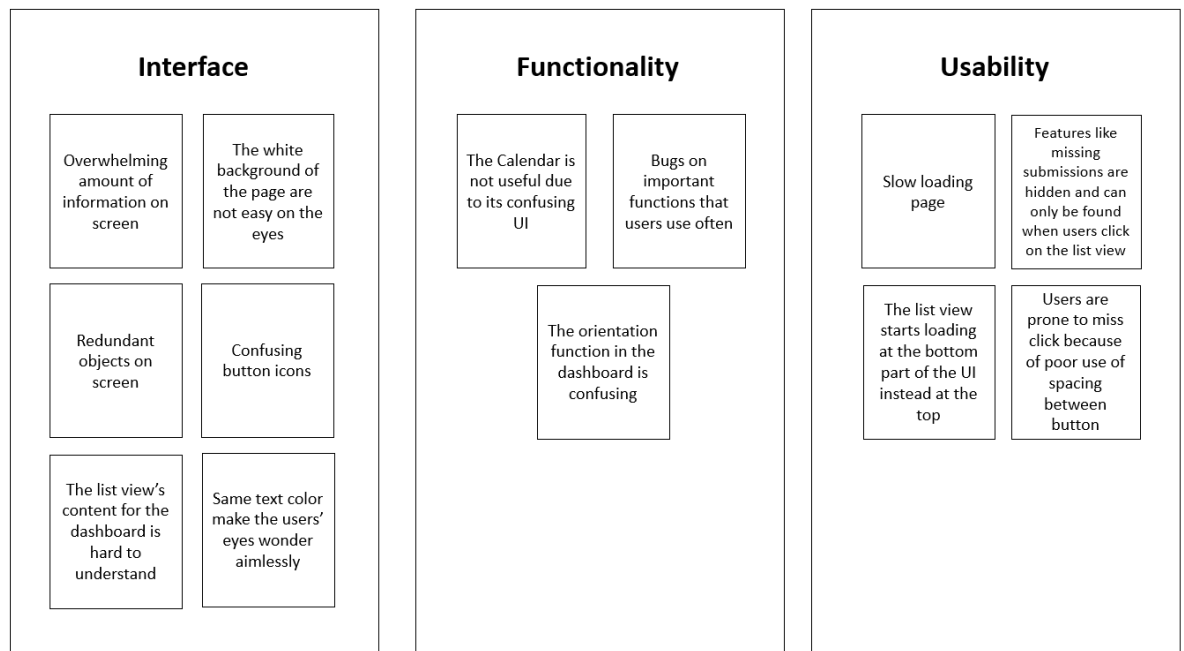


This is a screenshot of the navigation of the courses from clicking a course in the dashboard or the courses tab in the navigations. Here you can see that there are no borders and I have confirmed that even if you hover over the text only an underline will appear. That is ok to have an underline that indicates that you are hover over the button but the problem lies with the next screenshot



This border is only visible when you click the button. The border is big enough to barely touch the next button and the problem here is the next button also has a border as big as the previous button if they're all visible you'll see that borders will overlap, another problem is that the whole space inside the border is a link to another page which can be easily mis-clicked and with the added problem of slow loading it can be frustrating.

- Affinity Mapping**



- Personas**



Name: Jason X. Emel

Age: 21 years old

Sex: Male

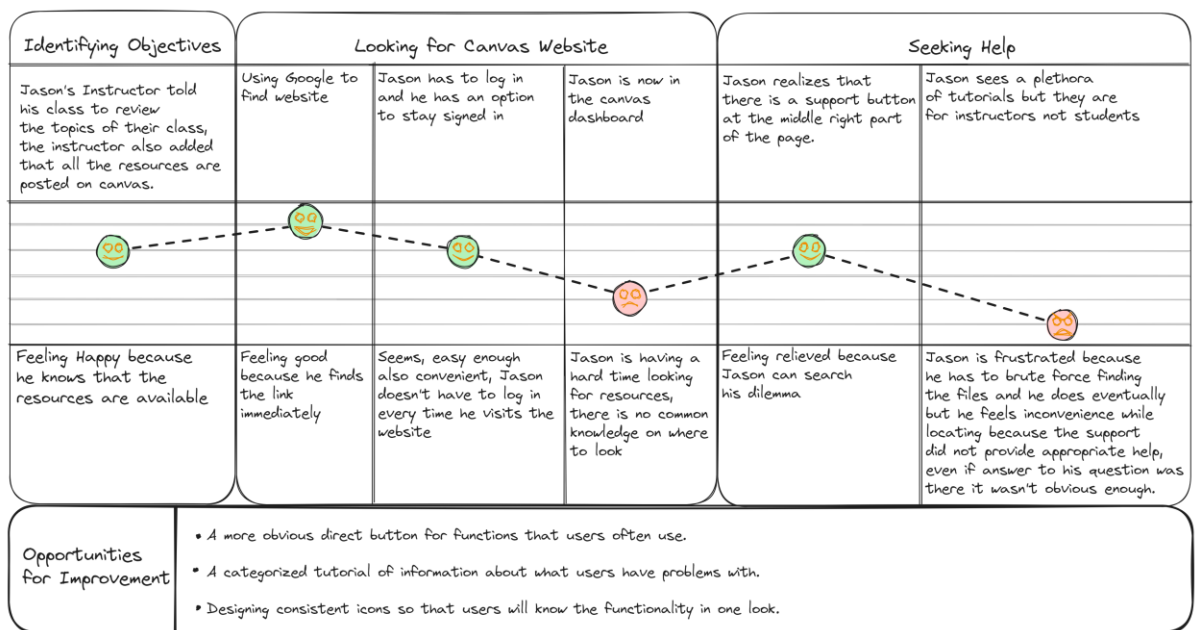
Role: College Student

Goal: Become a Python Developer

Motivation: The cool and awesome things he can build once he gains the skill and tools needed for his goal.

Challenges: He wants to study his subjects but he wants the resources to be in one place for convenience.

### • Customer Journey Mapping



## Exer 4: Solution

### • Design Solutions

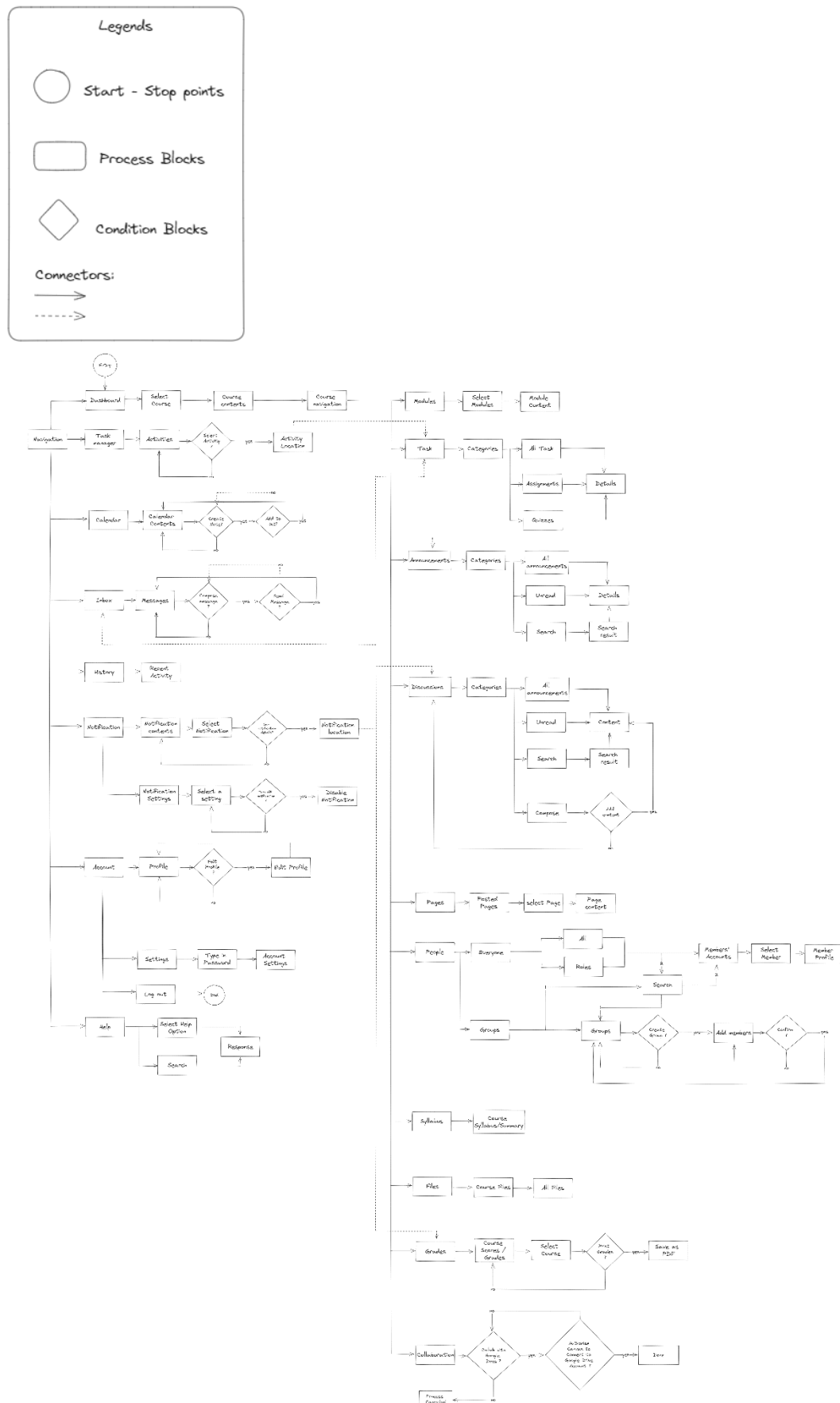
1. To solve the bug for the files, I have to make the dropdown icon not be independent when clicked instead of being able to click the dropdown and change its orientation, another way to solve this is to remove the icon if the folder is empty and only bring it back if the folder contains a file.
2. As of now the vibrant blue color is used for the text color of most buttons or text that links to another page, this is not ok when it comes to doing a certain task like finding a specific thing in the website, your eyes wander because there is nothing to anchor your eyes into noticing something. A solution for this is color coding the courses based on what color you customize it in the dashboard also adding dark mode for the website is also an option in case that a user would spend a lot of time in the website, white and bright color can be hard on the eyes.
3. Removing some unnecessary button and function in the dashboard is a must especially when it has its own tab in the navigation like the calendar. The courses tab should also be removed and replaced with a feature like task management, the reason for this is you already have the dashboard for the courses why would you need a courses tab in the navigation. Fixing the list view to make it look like a list view of the courses and not a confusing interface of task management.
4. To avoid mis-clicks a proper amount of spacing is needed for each button of the website and all the hidden borders should be removed and replaced with a hover effect of dimming the button or casting a shadow effect behind the button.



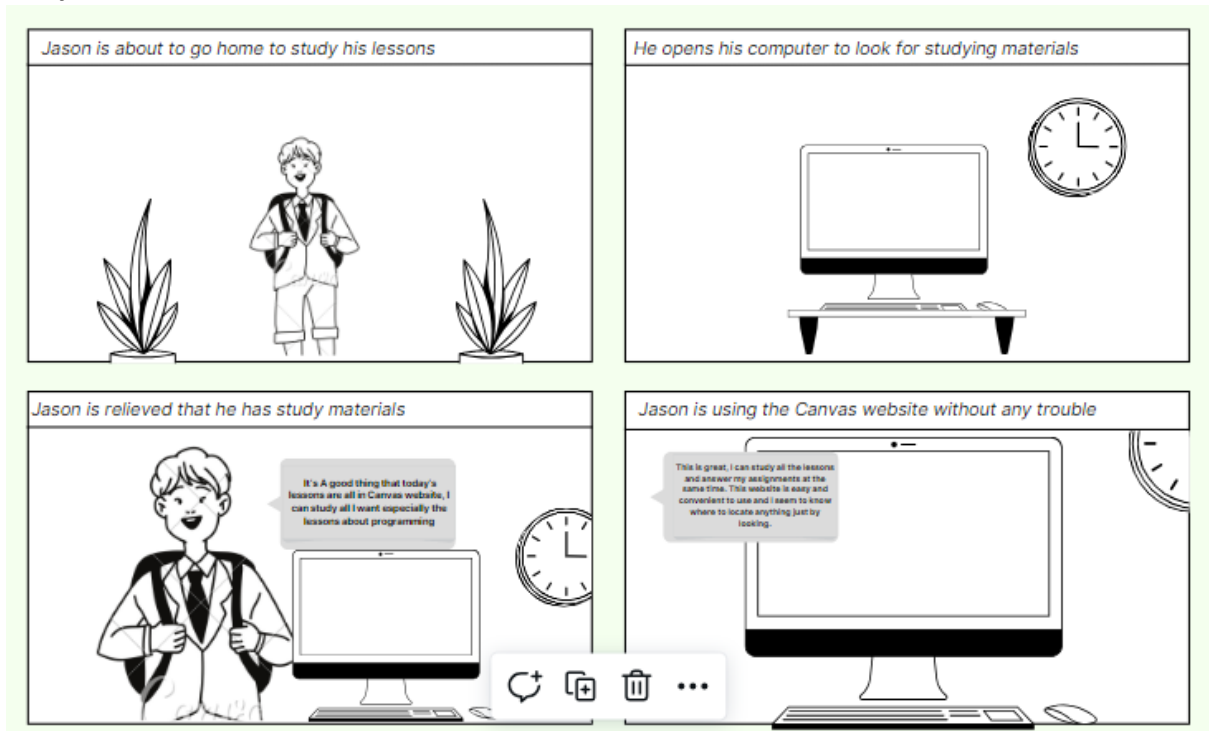
- **User Flow**

**Link to user flow**

<https://drive.google.com/drive/folders/1YoIRvzpilOqa-7QbV41xdQeve0A9n8g1?usp=sharing>

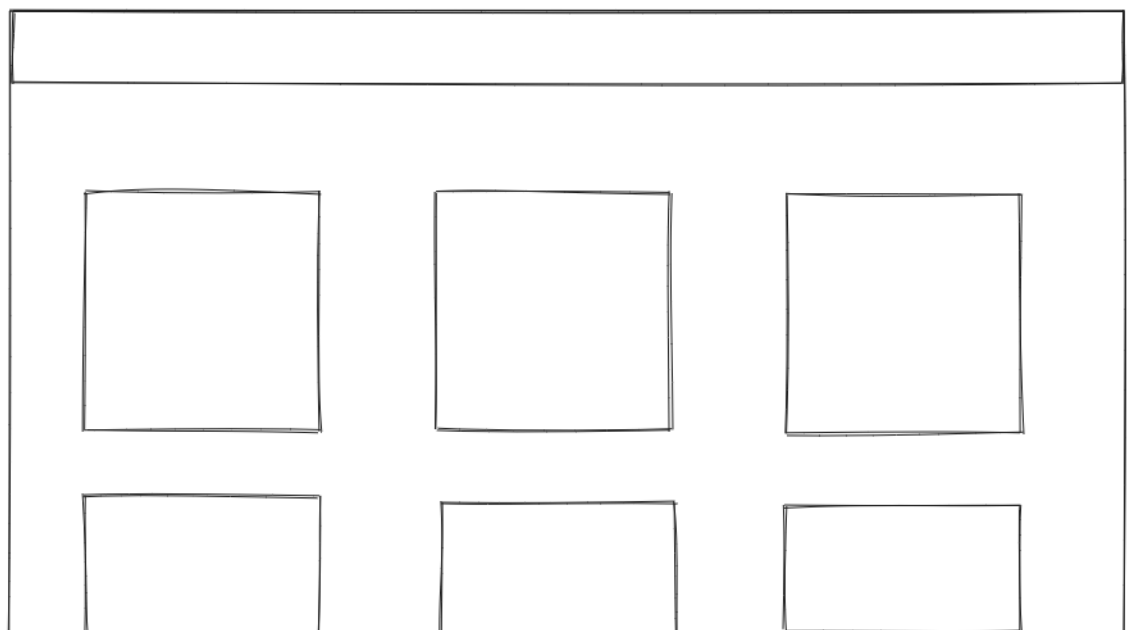


- Storyboards



- Sketches

### Dashboard Card view



**Dashboard List view**



**Task manager**

Subject name
Assignment/quiz
Assignment/quiz
Subject name
Assignment/quiz
Subject name

**Calendar / to do**

Calendar

Todo

Date

Note/Task

Date

Note/Task

Note/Task

Note/Task

**Files**

Files

Account Files

Account Files

Subject 1 Files

Subject 2 Files

DropBox

Drag and Drop Files here

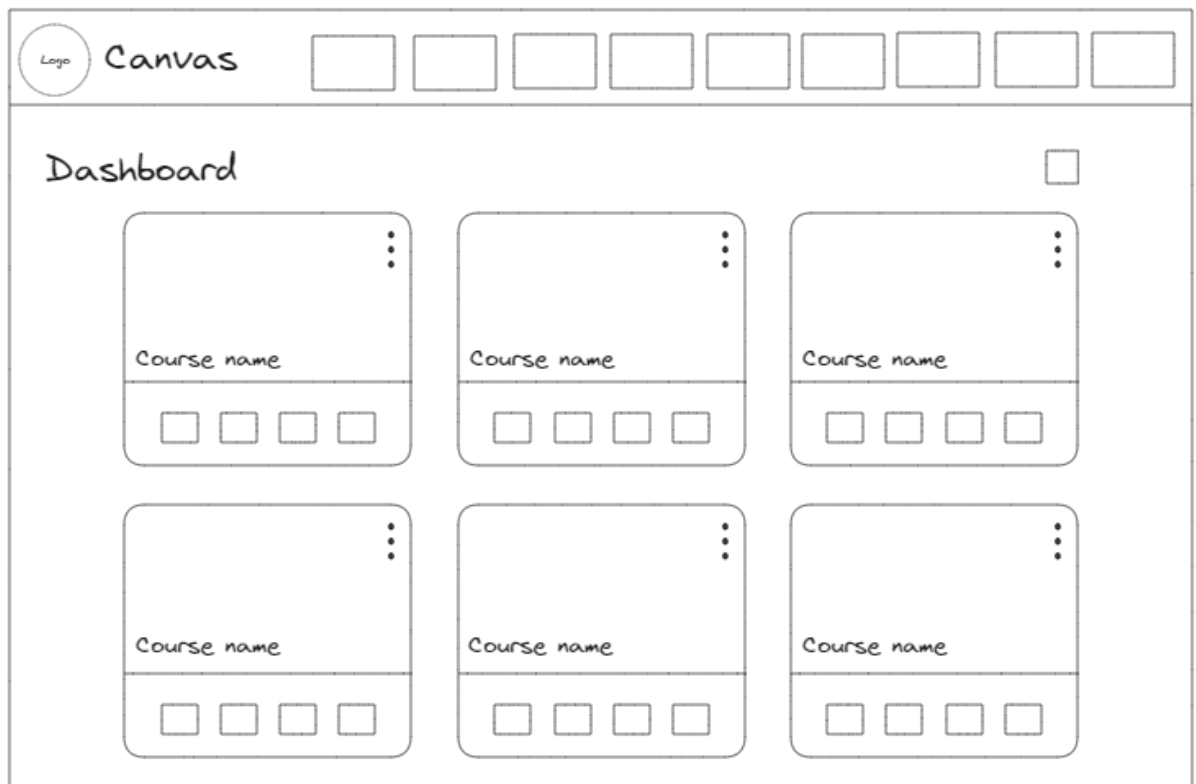
Choose File

filename.txt

Upload

Add another...

- Wireframes



Logo

Canvas

## Task Manager

Order by

Category

Search task

Course name ▾

Date Posted

Icon	Task type	Task name	Deadline	⋮
Icon	Task type	Task name	Deadline	⋮

Date Posted

Icon	Task type	Task name	Deadline	⋮
Icon	Task type	Task name	Deadline	⋮

Course name ▴

Course name ▴

Logo

Canvas

## File Manager

All Files

Search File

Folder

Current Folder Name

Account Folder ▾

▾

Current Folder

Course Folder ▾

Course Folder ▾

Course Folder ▾

Files

DropBox

Drag and Drop Files here

Choose File

Filename.txt

Upload

Add another...

Logo

Canvas

File Manager > Course name

Course Search File

Folder

course folder ▾

Current Folder Name

Files

Icon	File name.mp3	File type	Date Posted	Modified by	File size
Icon	File name.mp3	File type	Date Posted	Modified by	File size

Logo

Canvas

Calendar

To do


+

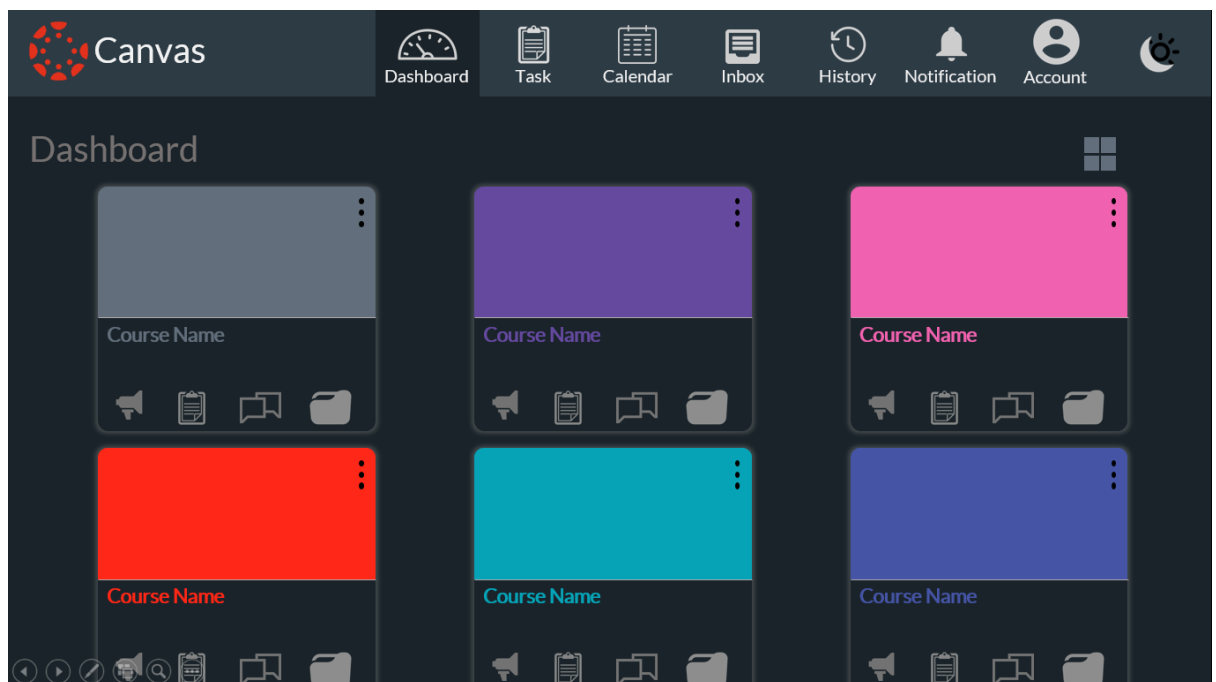
- **Visual UI Design**

- One of the pain points were the bugs that made the functionality of the folders in the files glitch, I decided that instead of having dropdown for every folder I should remove the drop downs on folders that only contain files or empty folders and dropdown icons can only be seen on folders that contain folders inside them. Also so that it is easier for the users I made the names of the folders color coded to their respective course.
- For the colors I reduce the number of buttons that are colored blue so that it is easier on the eyes of the users and I simplified some features to reduce redundancy.
- By having visible subtle borders with appropriate spaces in between solves the issue with mis-clicks thus hopefully improving user satisfaction when using the website.

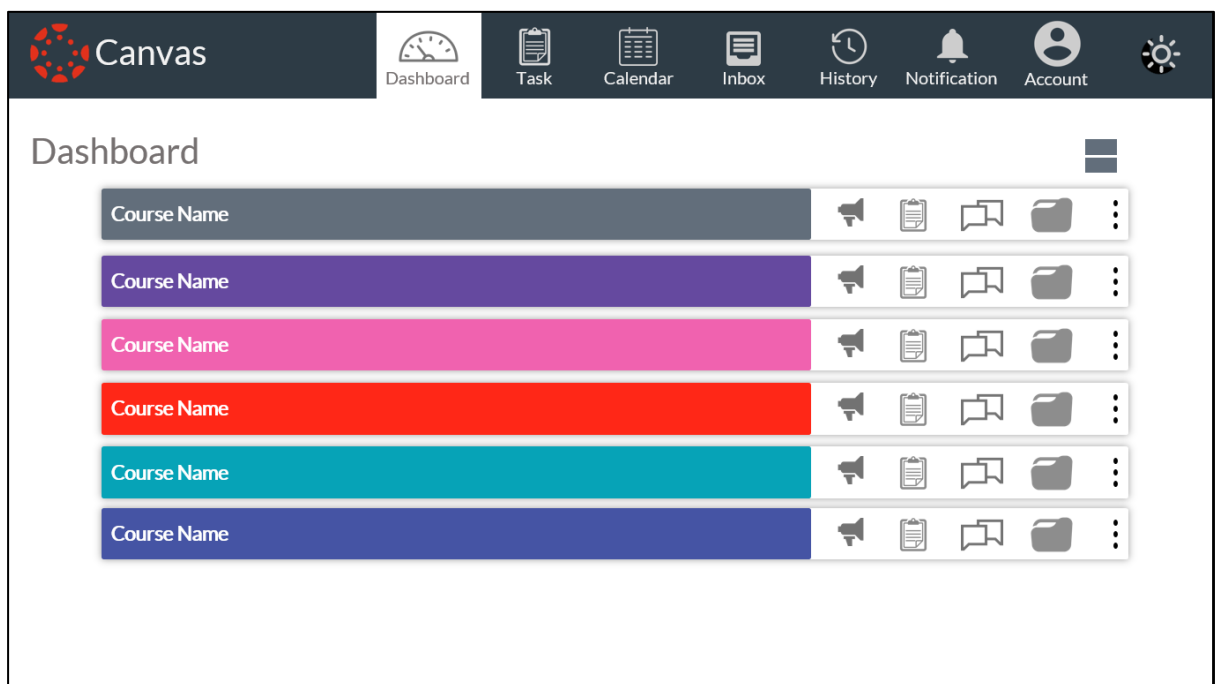
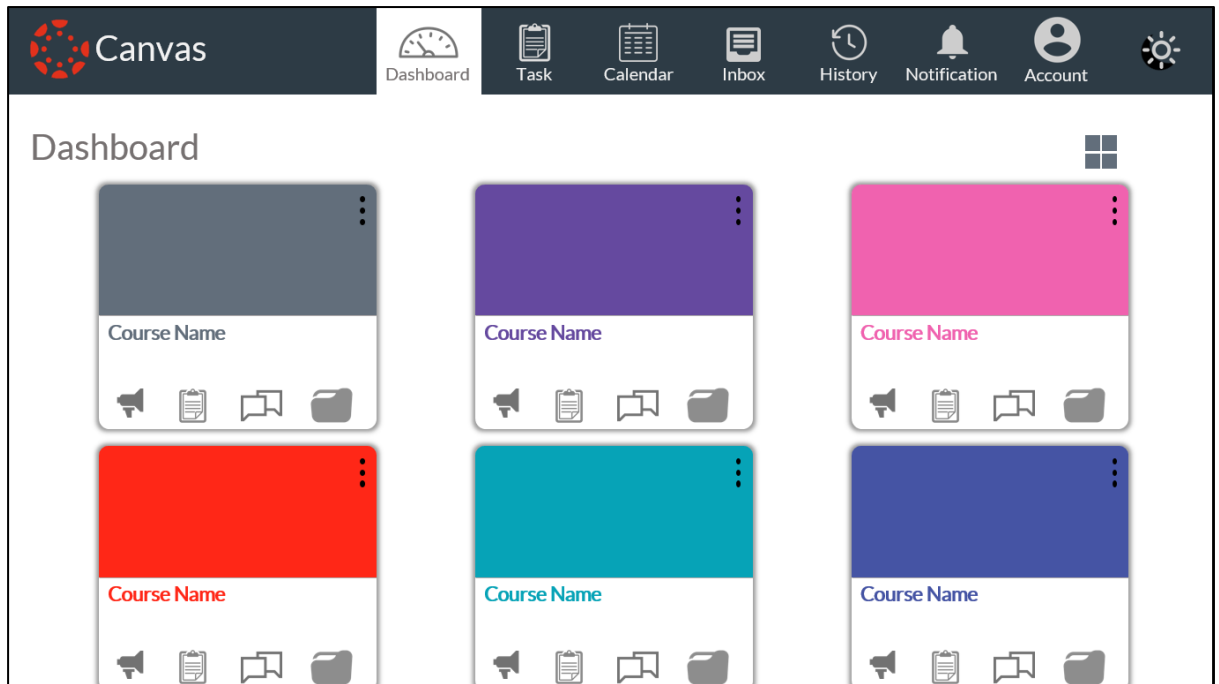
- **Design Prototype**


**Link to the design**









[https://drive.google.com/drive/folders/1-tywzP\\_hHS9GiY1bjdSItu8xs3avPnNL?usp=sharing](https://drive.google.com/drive/folders/1-tywzP_hHS9GiY1bjdSItu8xs3avPnNL?usp=sharing)










Canvas

 Dashboard
  Task
  Calendar
  Inbox
  History
  Notification
  Account
 


## Task Manager









Order by ▲
All task ▲

Posted on December 16, 2023 ▲

 Quiz	Quiz Name	■ Closed	Deadline: January 1, 2024	⋮
 Quiz	Quiz_2 Name	○ Closed	Deadline: December 19, 2023	⋮

Posted on December 17, 2023 ▼


Canvas

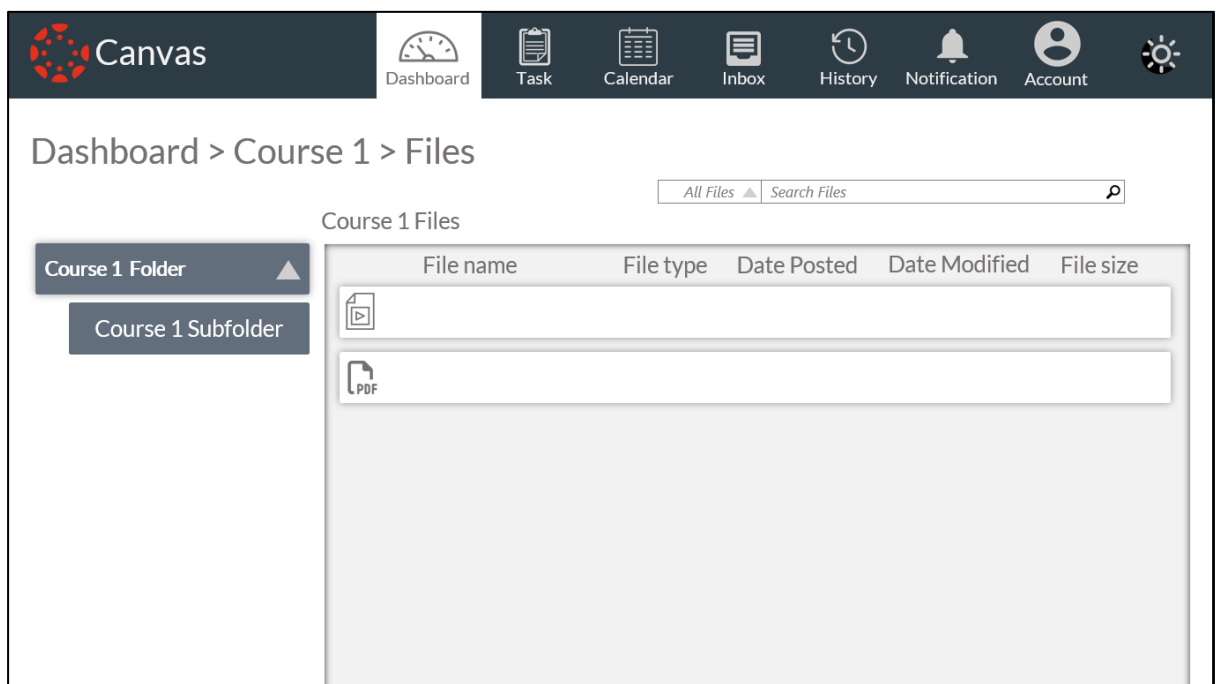
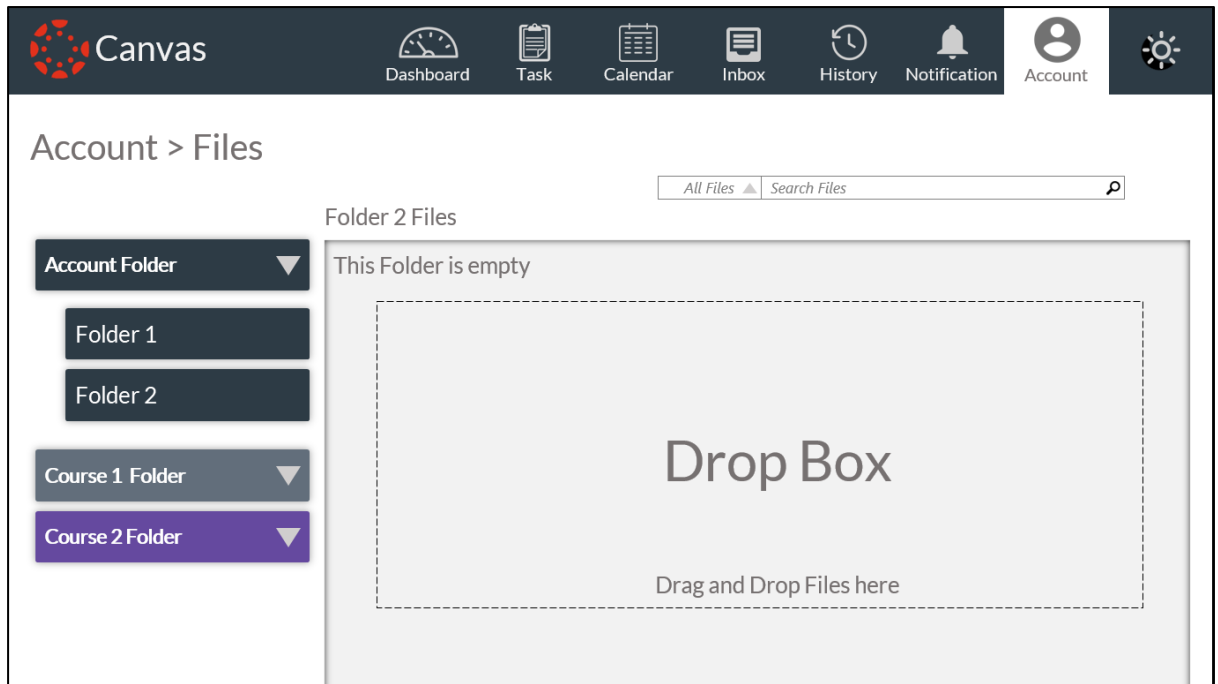
 Dashboard
  Task
  Calendar
  Inbox
  History
  Notification
  Account
 

## Calendar

Sun	Mon	Tue	Wed	Thu	Fri	Sat

## To do

+



## PART II

### Comments/Suggestions

I have asked 4 people and the feedback they gave were rather positive leaning on the fact that the UI of the reworked design of canvas website is easier to understand and there are positive reaction on the added feature of the task manager where responses of the people asked are the same they said that it was convenient because they can now see all their task in one easy to access place. One of the feedbacks said that the UI is now more user-friendly and beginner-friendly because of the fact that the UI is now easier to understand without losing the aesthetic of the old website.

### Results /Conclusion

As I presented my case study to the people that I need feedback from, I walked them through on the pain points of the case study and what path I took to solve this problems. The prototype is somewhat a success for the reason that feedbacks are mostly positive. The key learnings that I found is that convenience takes priority followed by functionality and aesthetics. The reason for this order is that when it comes to website like Canvas, students wants the convenience of accessing what they want in an easy manner as well as the option to access everything all at once or to access things based on their category. Functionality should be as important as the convenience because convenience can only be achieved if it does what it's supposed to do. Lastly aesthetic is there to make certain function be more noticeable. The next step for this project is refining, refining the things that can be improve.