

cs398 w22 team 209

goat notes

@abhay @jusdeep @jeffery @philips

Introduction

What we're building

- desktop note taking application for CS students

What we solve

- taking coding and math notes
- flexibility in organizing notes
- users don't have to switch between multiple apps for different features

Our inspirations

- Joplin, Notion, Calendar Apps, OneNote

What makes us different

- combining markdown editing with inline drawing capabilities
- a calendar view to keep students on track with their assignments

Project Plan

Resources: Our team! Abhay Sharma, Jusdeep Dhaliwal, Jeffery Li, Philips Xu

Constraints

- Coop interviews - end of January to February
- Midterms - middle of February
- General course load

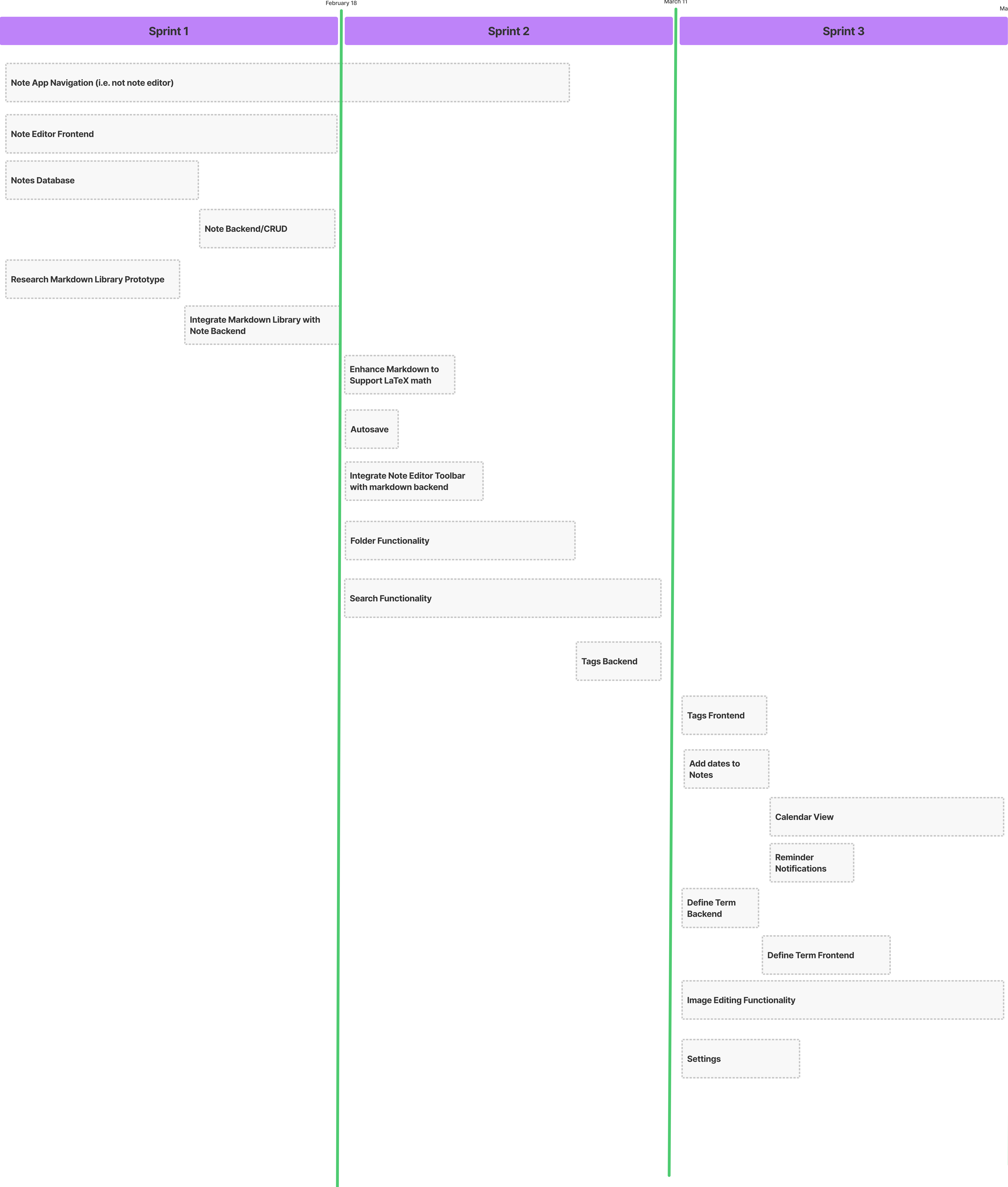
Deadlines:

- Sprint 1 Demo: February 18th
- Sprint 2 Demo: March 11th
- Sprint 3 Demo: March 25th
- Final Report: April 5th

Risks

- Member gets COVID: remote work through Teams

Goat Notes Plan of Action



Requirements

Target users: Computer Science Students

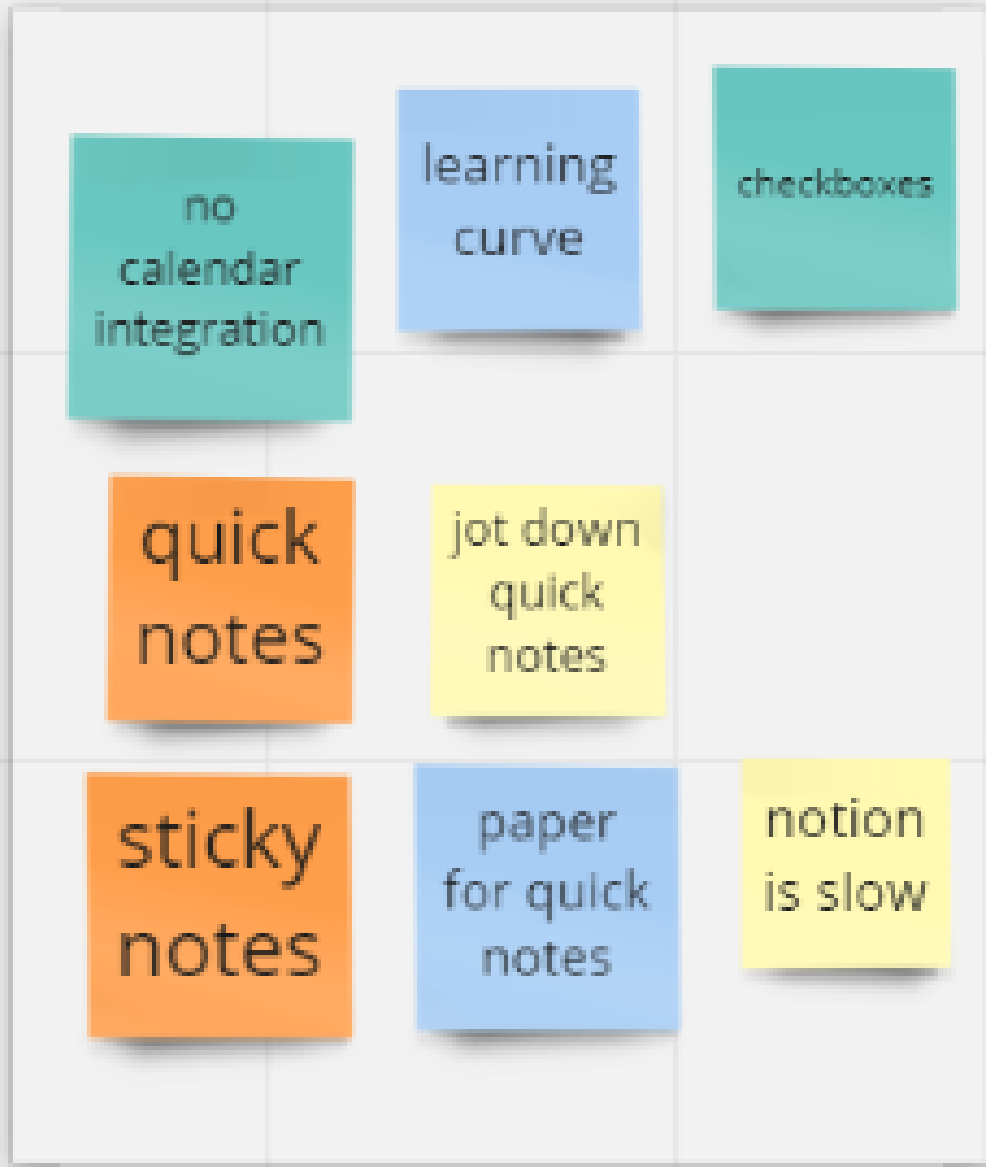
Affinity Diagram: https://miro.com/app/board/uXjVOWtOUg4=

Functional Requirements

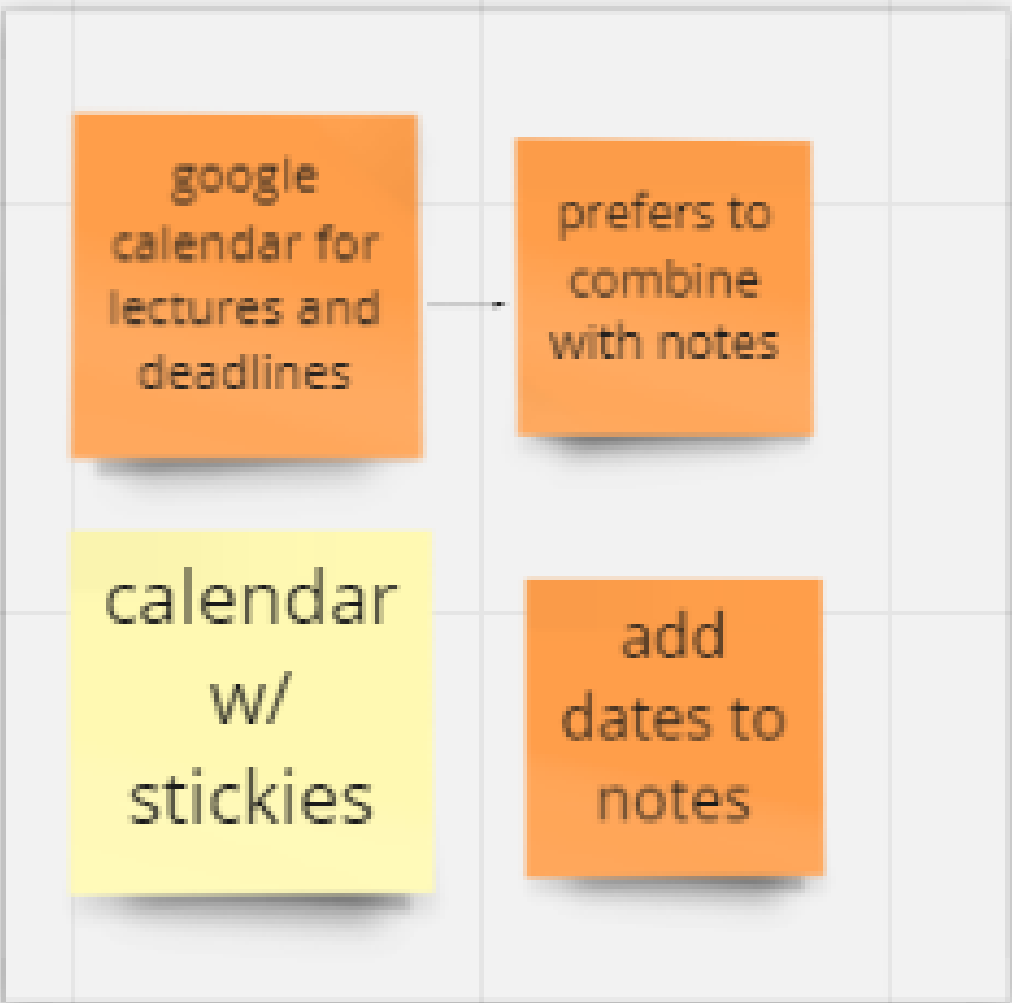
- Markdown
- LaTeX
- Drawing Support for Handwriting
- Calendar View for Student Planning
- Specialized definition markdown element for easy review/lookup
- Search
- Folders & Tags

Interview
Takeaways

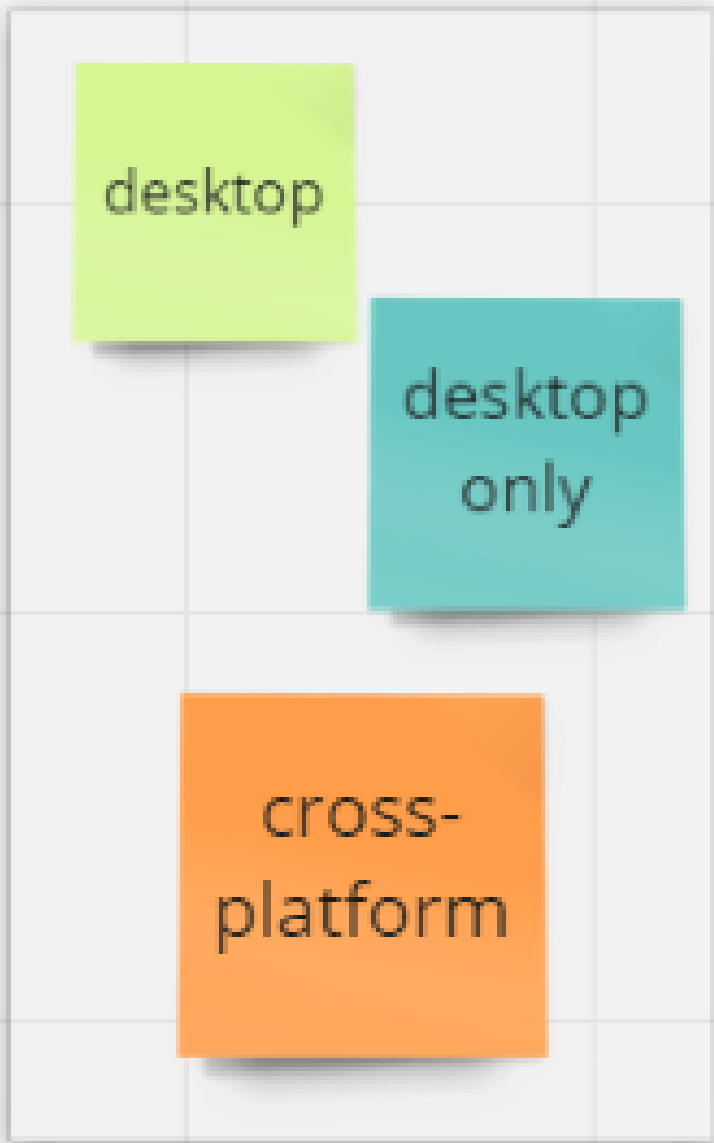
frustrations with other apps



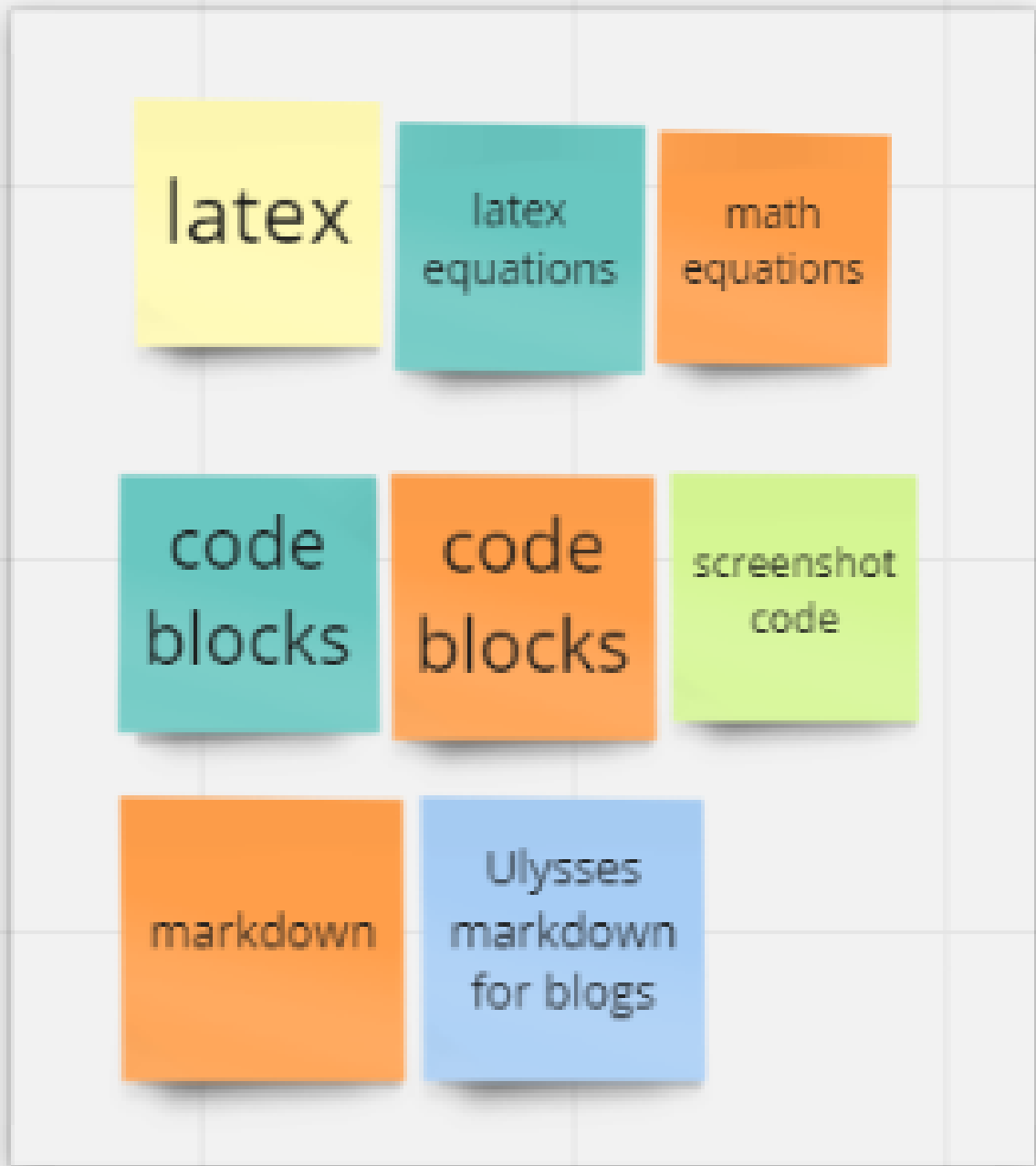
Calendar Integration



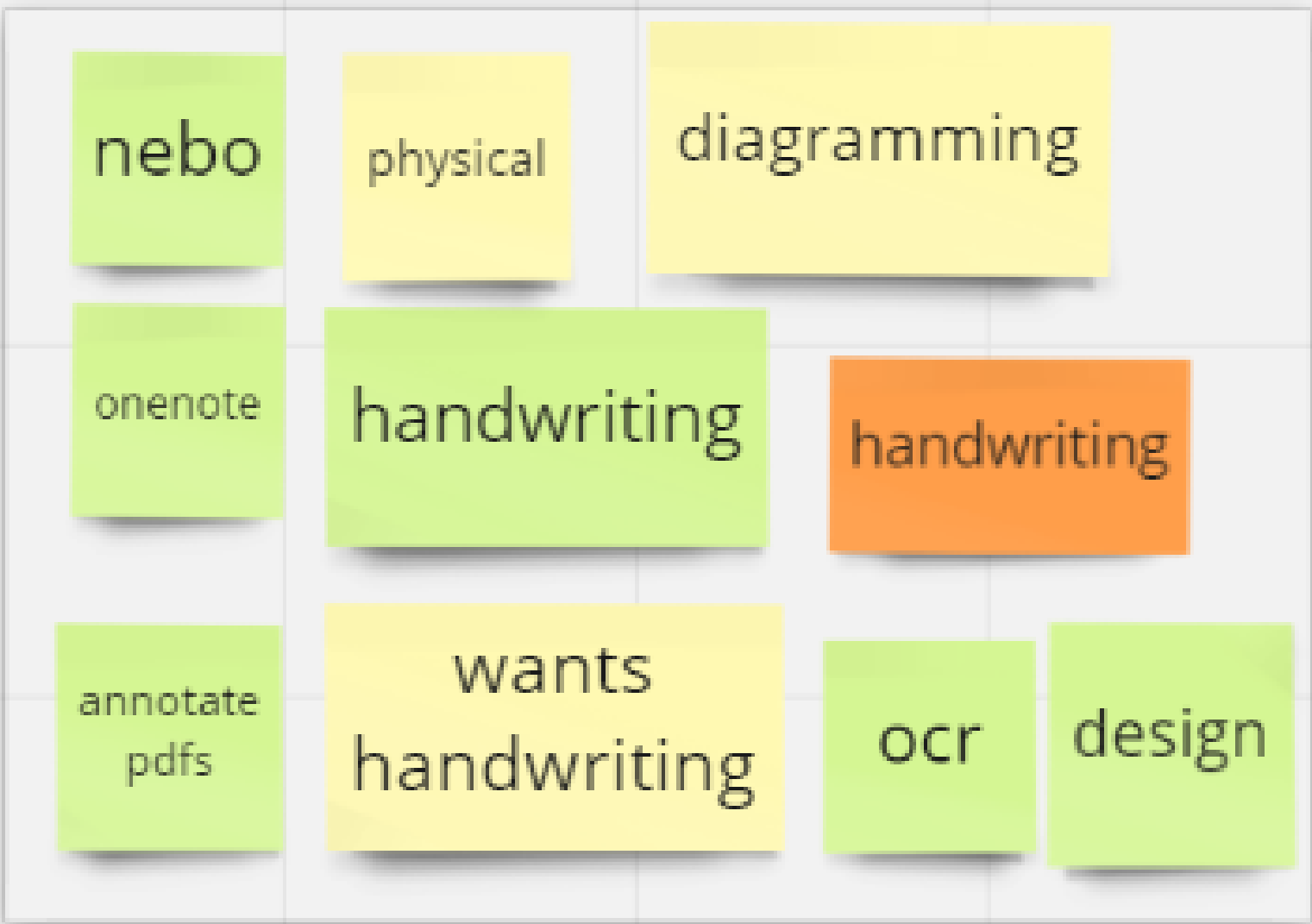
Platform



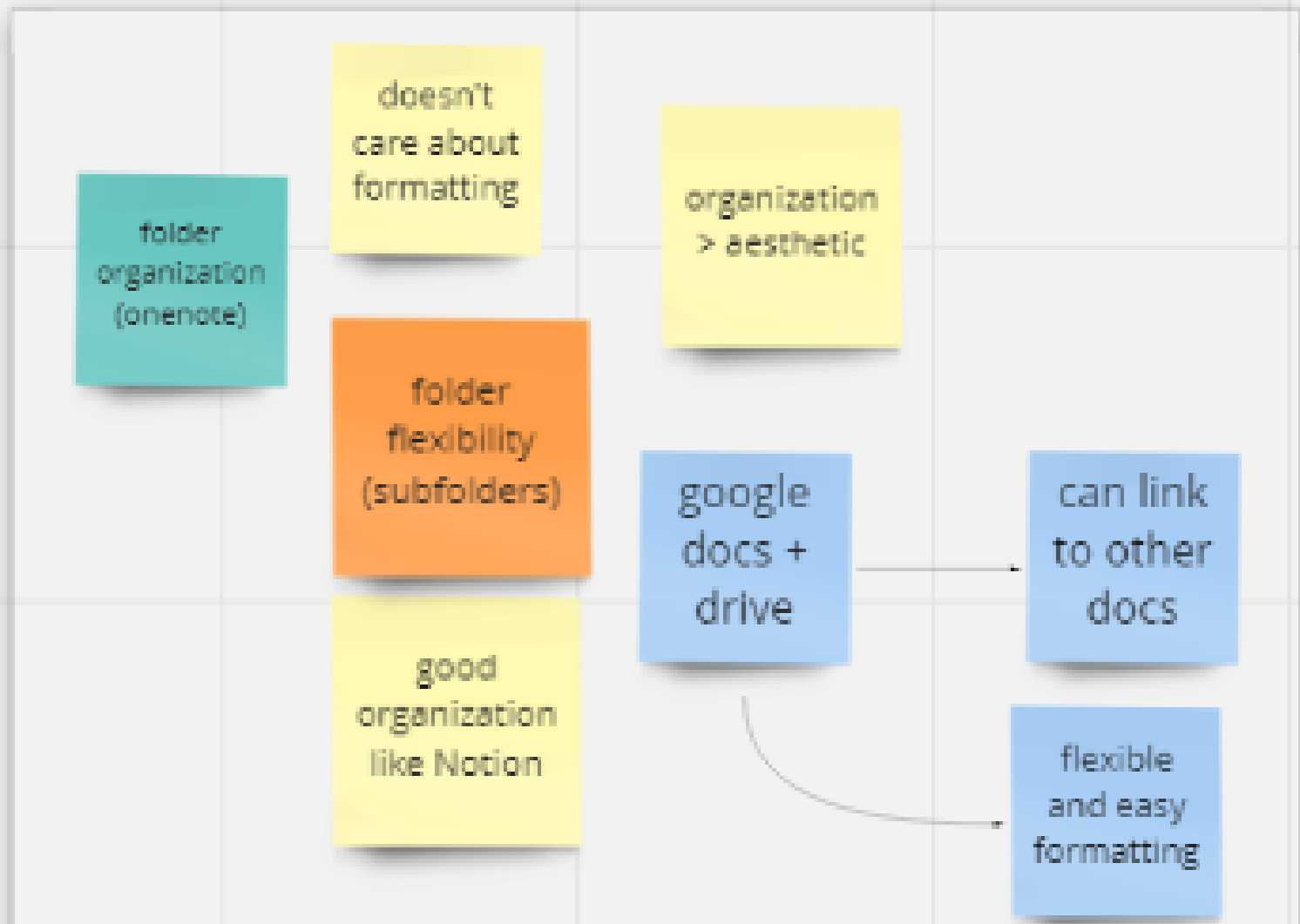
Markdown, Math, & Code



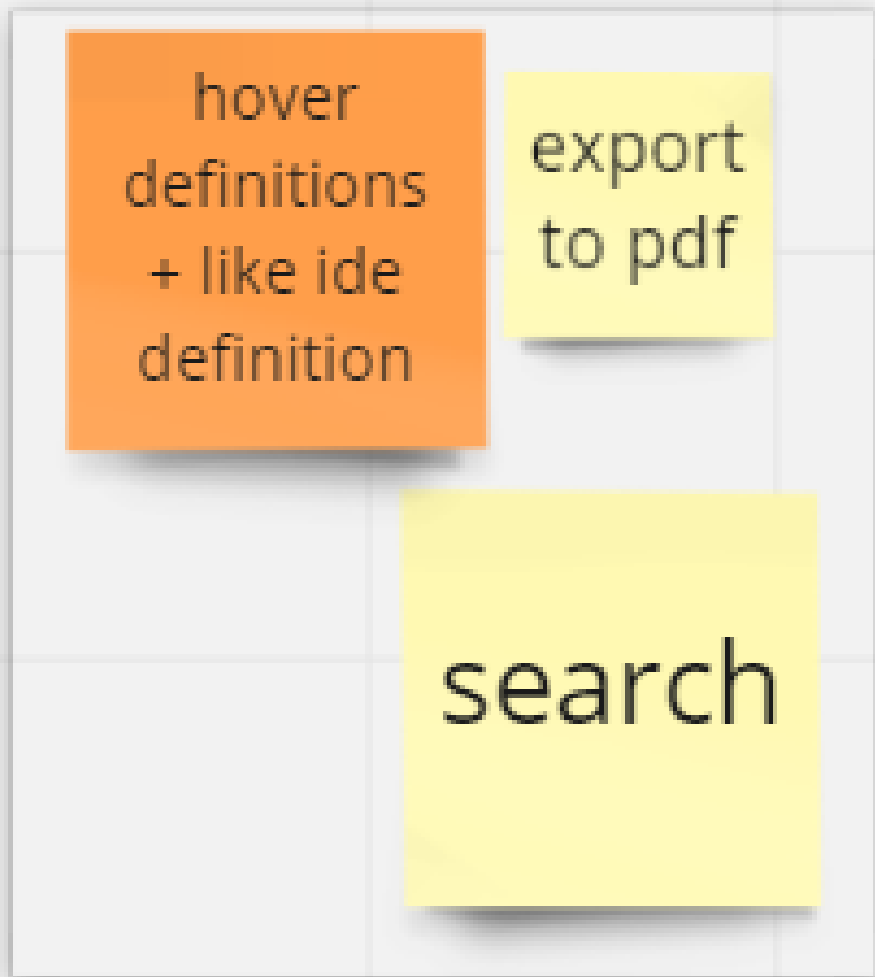
Handwriting



Organization



Other features





Sam P. Gander
CS Student at Goose State
University (GSU)
21, single

OVERVIEW

Sam is a computer science student and has worked as a software developer in his co-op terms. He is a power user is always looking for ways he can make his workflows more efficient.

GOALS

Needs to be organized at all times to so he can keep track of lectures and deadlines. He needs to take notes with formatted code for his classes and work terms.

MOTIVATIONS + BEHAVIOUR

Power:	5/5
Social:	4/5
Achievement:	4/5
Fear:	3/5
Growth:	4/5

NEEDS AND DESIRES FOR THE PRODUCT

- No-nonsense note-taking experience, must be able to open the app and start typing
- Easy to search and find notes (shouldn't need to read any documentation)
- Dark mode
- Helps him do well in class and get a job

LEVEL OF MOTIVATION

moderate

SCENARIO

He's asked about how proof-of-stake cryptocurrencies function. He had written down the definition, but he can't find it!

He copied down code that were on the slides but the formatting makes it unreadable

FREQUENCY OF NOTE-TAKING

Every day for lectures and scheduling

ARCHETYPE

Power User

FRUSTRATIONS

- Can't organize notes as flexibly as he wants to
- Some note-taking applications are slow to load and use
- Some apps don't allow use of code blocks and math text

Non-Functional Requirements

Performance

- App opens in 4 seconds

Usability

- No training required, easy to create a note and start typing
- Introduce key features upon first start up through pop-ups

Configurability

Settings to configure preferences such as:

- Default homepage
- Appearance
- Keybinds

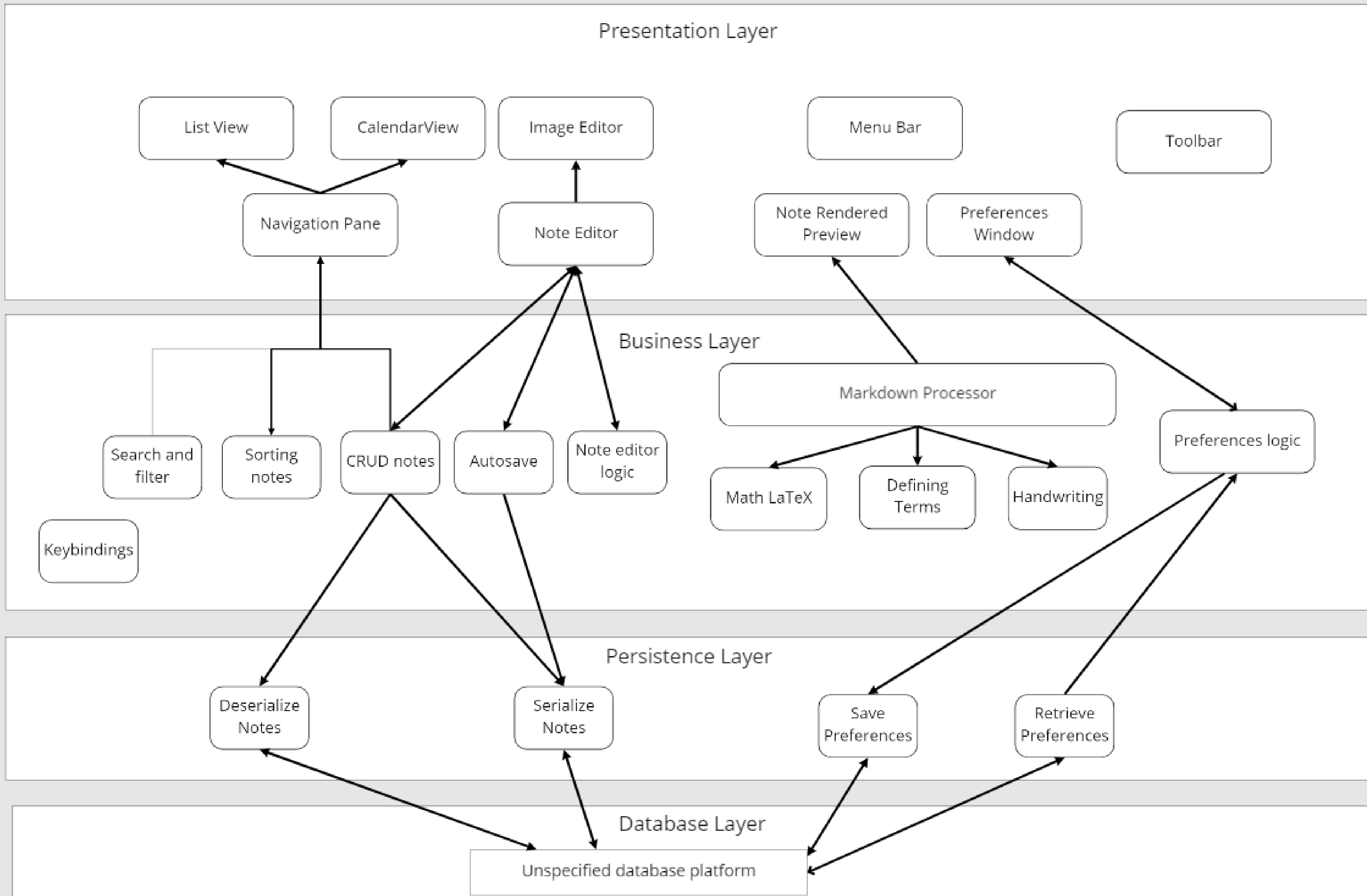
Architecture & Design

Constraints:

- Markdown processor library may not be as customizable as required
 - customizability will be required to insert LaTeX math and definition notation in the same file

Patterns:

- Observer Pattern
 - Notes toolbar observes what style is selected
 - Example: Ctrl+b enables bolding, the bolding button observes this and changes colour
- Command pattern
 - Changing styling, saving, undo/redo will all use the command pattern



Search

- > folder (for goats)
- > subfolder (goats)
- > Note about Goats

- Tags
- Assignments

• Midterms

• Notes

Notes

Calendar

Other Note

Note about Goats

Some Other Note

Undo

Redo

B

/

U

H1

H2

H3

f(x)

<code>

bullets

list

hyperlink

Insert image

handwriting

add to calendar

Note about Goats

This is is a **note** about ****goats****.

How many notes can a goat note goat if a goat note could note goats.

floaty goat -> what is a goat but a note that floats

I forgot what a floaty goat is

![drawing1](files/drawings/drawing1)

Note about Goats

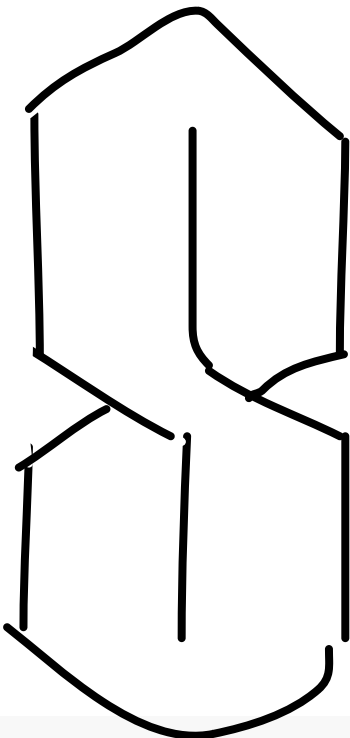
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Search

> page1
> page 2
> ...

- Tags
- Assignments
 - Midterms
 - Notes

Notes

Calendar

Other Note

Note about Goats

Some Other Note

Undo Redo **B** / U H1 H2 H3 f(x) <code> bullets list hyperlink Insert image handwriting add to calendar

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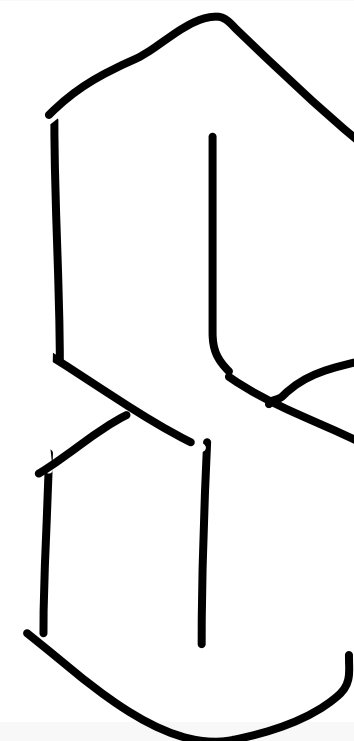
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- > subfolder (goats)
- > Note about Goats

- Tags
- Assignments
- Midterms
- Notes

Goat

How does one define a goat?

Goat

How does one define a goat?

Goat

How does one define a goat?

A goat is one who takes notes,

However, a true goat is one who

****learns**** from their notes

Goat

How does one define a goat?

Goat

How does one define a goat?

Goat

How does one define a goat?

Search

> folder (for goats)

> subfolder (goats)

> Note about Goats

- Tags
- Assignments
- Midterms
- Notes

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	Assignment 1 5 p.m.					
				Note about Goats		

Search

- ▼

folder
- ▼

subfolder
- subsubfolder
- Note about Goats

- Note 2
- Note 3

Tags

- Assignments (5)
- Midterms (2)
- Exams (1)

Note about Goats

Note 2

Note 3

Undo

Redo

B

/

U

H1

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f(x)

<code>

bullets

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Insert image

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