Baljinder Benipal Linnea Palmblad Haifan Wang Anushka Tayal



DEVOTE

Design Review



User group

- Software developers
- Computer Science students

Feedback from interviews

- Missing code formatting
- Quick and minimal design
- Most popular competitors among interviewees is Apple Notes and Atom



User personas

Student



Alice D.

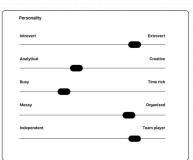
Age: 19

Occupation: CS Student Location: Waterloo, ON, Canada

Archetype: Student

Status: Single

Alice is a first year Computer Science student currently taking several SC courses. Previously she has been taking notes on paper, but is now treatilising to taking notes on the computer for her classes instead. For university she moved away from home and for the first time have to do her grocery stopping by herself. Additionally, she has 5 different courses. So, having notes organized by courses would be a very useful feature.



Motivation

- She wants to do well in school
- Be more efficient
- Get better organised

Pain Points / Frustrations

- Hard to organise all notes for all courses
- Hard to keep track of what things to buy in the grocery store
- It is hard to write and to see the code snippets in the notes
- Uses an older computer, so heavier software causes a lot of lag

Goals

- · Better organise all the notes
- Structure grocery lists to minimise grocery store runs
- Find a better way of writing down code in notes

Developer



Bob D. Builder

Age: 2

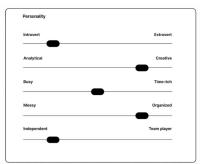
Occupation: Software Engineer

Location: San Francisco, USA Archetype: Software professional

Status: Married

Bio

Bob is a professional software engineer who has worked in Silicon Valley for the last 4 years. He is a full-stack developer that enjoys coming up with features at the higher-level but doesn't mind getting his hands dirty with the lower-level implementation from time to time. Bob is pragmatic, he is not obsessed with Vim or Emacs, instead he uses an IDE. Bob likes to write small scripts to test out new language features or do independent unit testing of small functions. Bob is very creative and whenever inspiration strikes him, he reaches out to a pen and paper to jot down his thoughts. Bob wants the software he uses to be intuitive and very simple. He also values organization highly, he doesn't spend time looking at assembly, it's too tedious and boring for his tastes.



Motivations

- As an engineer in a big company, he wants to keep everything clear and organized
- Since the living expenses are high in Silicon Valley, Bob wants to keep his job and survive there.

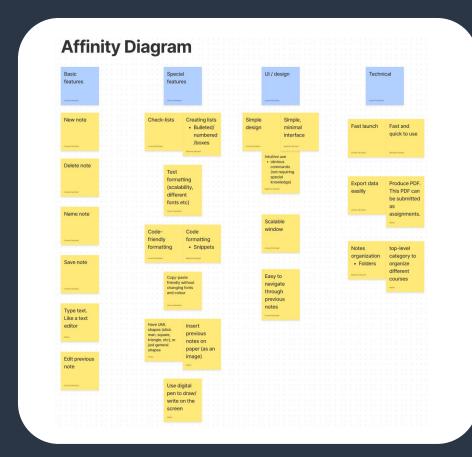
Pain Points / Frustrations

- Bob does not like to spend all his time worrying about small details, he likes to code but he's a high-level kinda guy
- Bob hates software that is slow or lags, and crashes all the time, which causes him to lose important work
- Bob wants his applications to have an intuitive design, shortcuts are cool but they should be a bonus
- Bob doesn't like mess, whether it's Confluence docs or software Bob hates duplication

Goals

- Bob wants to make the world a better place
- Bob wants to stay organized and have an easy way to record his thoughts when he feels inspired

Extracting Requirements





- >_
- Requirements

- Set up infrastructure
- Create application window
- Create new note
- Save note

Medium priority

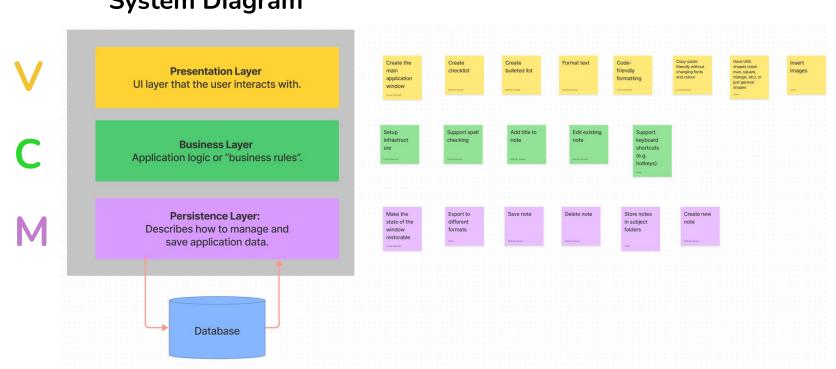
- Resize application window
- Restore state of application window
- Edit existing note
- Delete note
- Add title to note

Low priority

- Create menu bar
- Add folders for notes
- Format text
- Format code
- Create bulleted list
- Create checklist

Application Architecture

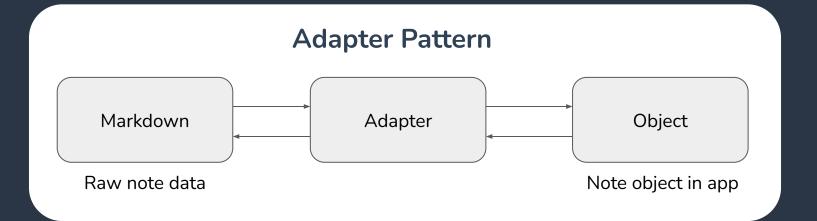
System Diagram



Application Architecture

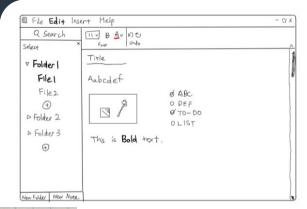
Observer Pattern

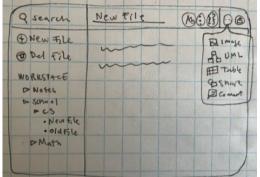
- Subject/Publisher: Model (Data)
- Observer/Subscriber: View (UI components)

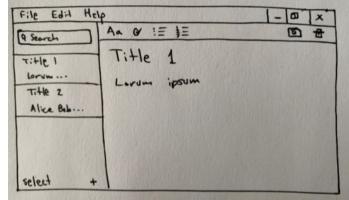


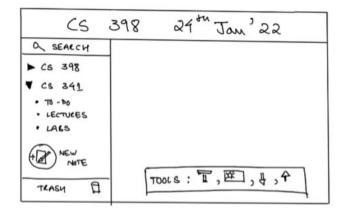


Prototypes



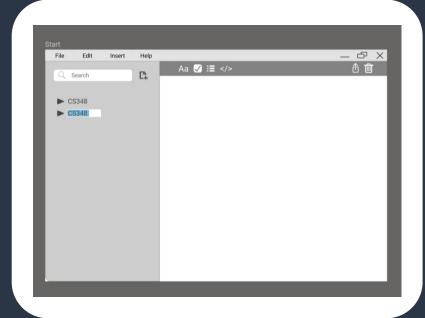


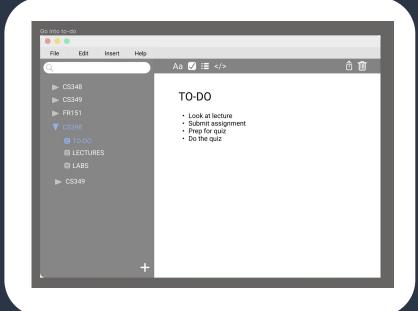






Interactive prototypes in Figma





County Chart		Sprint 1									Sprint 2									Sprint 3												
Gantt Chart	Duration	WEEK 1				WEEK 2						WEEK 4					WEEK 5										WEEK 8					
	(Days)	М	Т	w	R	F	М	Т	w	R	F	М	Т	w	R	F	М	Т	w	R	F	М	Т	· V	N R	2	F	М	Т	w	R	F
High priority																																
<u>Create application window</u>	2																															
Create new note	2																															
Set up database	5																						L									
Save note	3																															
Medium priority																																
<u>Delete note</u>	3																															
Add title to note	3																															
Edit existing note	5																															
Resize application window	3																															
Restore state of application window	3																															
Low priority																																
Add folders for notes	3																															
<u>Format text</u>	5																															
Create bulleted list	2																															
Create checklist	3																															
<u>Format code</u>	4																															
Create menu bar	4																															
Unassigned priority																																
Support keyboard shortcuts	4																															
Export note to different formats	5																															
Insert images	6																															
Create shapes/UML diagrams	4																															
Remove formatting from pasted text	3																															
Support spell checking	4																															



Resources Identified

Developers

- Anushka Tayal
- Baljinder Benipal
- Haifan Wang
- Linnea Palmblad

Assistant

- Professor
- TAs

Other Human Resources

- Interviewee
- Testers for user testing



Software

- Kotlin
- IntelliJ IDEA
- Git: GitLab
- Oracle VM VirtualBox Ubuntu Linux
- Google Docs
- Google Slides
- Google Sheets
- Figma