

Smart Annotation Compiler

B22 - Ece, Ovais, Adrian, Carina, Garvin

GNG2101-B

2020-10-20

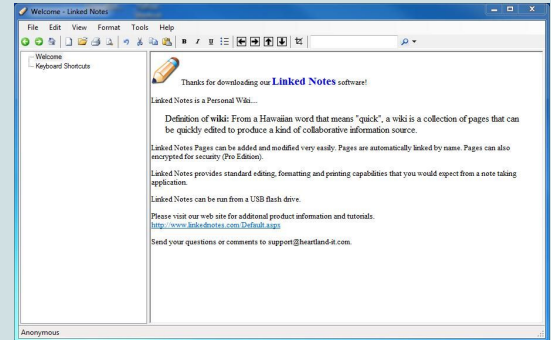
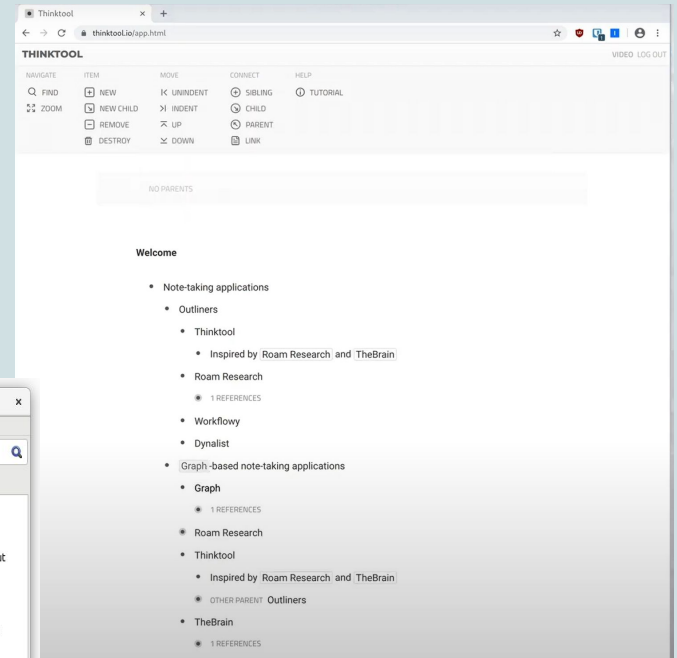
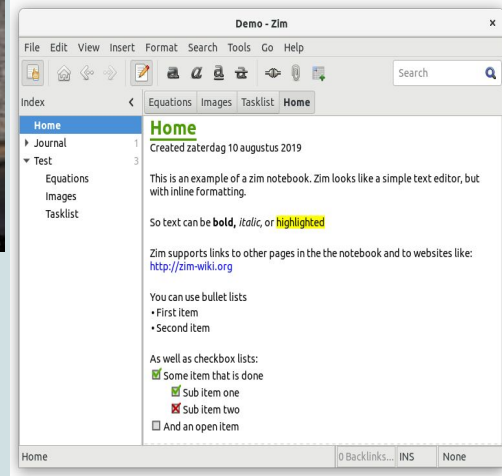
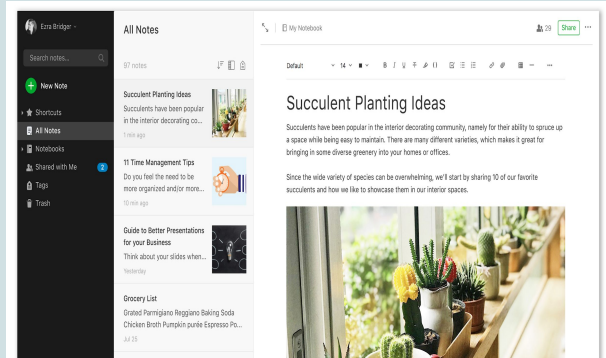
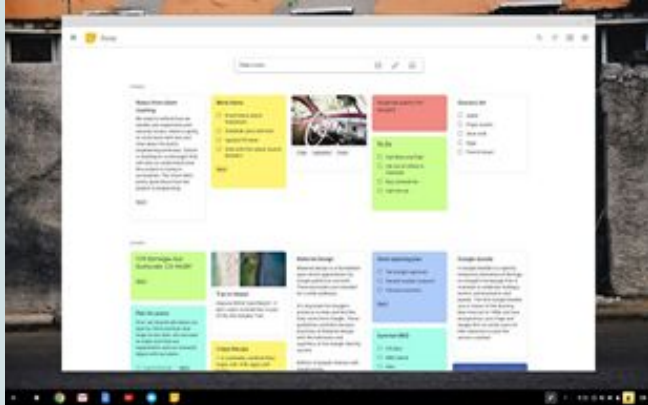
Customer Needs

Need	Description
Accessibility	This app is accessible for visually-colour challenged people
Connecting notes/ideas	This app connects related notes to each other based on date-time or topic
Notifications	This app sends notifications as a reminder to open it and work
Markers	This app allows for various tagging of elements
Cross-platform	This app works on both MacOS and Windows
Usability	This app is quick and intuitive
Photos	This app allows for uploading photo files
Standalone	This app works on its own, not an extension to another software
Audio files	This app allows storing voice notes
Organization of Personal Ideas	This app primarily allows the user to write what they are thinking, not information from the internet
Printing	This app can export to PDF and print
Voice to text feature	The app converts speech into notes and auto-connects them
Bibliography integration	This app allows for auto citations, allows for searching a reference and finding the citation

Metrics

Need #s	Metric	Unit
5	Ease of connecting notes	Subj.
1	Accessible to people that are visually-colour challenged	Subj.
3	Frequency of sending notifications	Subj.
10	Can add markers to indicate relevance or importance	Binary
13	App allows for uploading photo files	Binary
2	Number of platforms it can be used on	Integer
11	App is intuitive	Subj.
9	App stores audio files	MB
12	Can print notes into a PDF	Binary
6	This app primarily allows the user to write what they are thinking, not information from the internet	Binary
8	Converting speech into notes	Binary

Competitors



Benchmarking

Metric	Unit	Linked Notes	ThinkTool	EverNote	Google Keep	Zim
Connecting notes	Subj.	3 (?)	4	5	1	1
Accessible to the visually impaired	Subj.	7	6	7	8	7
Sending notifications	Subj.	1	1	2	2	1
Can add markers	Binary	0	0	1	1	1
App is intuitive	Subj.	5	7	7	8	9
Can upload photo files	Binary	1	1	1	1	1
# of Platforms	Integer	1 (Windows)	10+	10+	10+	4
Store audio files	MB	0	0	60	0	0
Print notes into PDF	Binary	1 (export to text)	0	1	1	1 (to HTML page)
Write what they are thinking	Binary	1	1	1	1	1
Speech into notes	Binary	0	0	0	0	0

Target Specifications

Metric	Unit	Marginal Value	Ideal Value
Ease of connecting notes	Subj.	Cannot connect bullet points by colour/symbol	Can connect notes visually like a sticky connecting to another with a line
Accessible to people who are visually-colour challenged	Subj.	Easy for client to differentiate between colours	Easy for all colour challenged people to differentiate between colours
Frequency of notifications	Subj.	Desktop notification every day	Modifiable notification settings
Can add markers to indicate relevance of importance	Binary	0	1
App allows for uploading photo files	Binary	0	1
Number of platforms it can be used on	Integer	1 (MacOS)	2(Mac + Windows)
App stores audio files	MB	250	500
Can print notes into PDF	Binary	0	1
App is intuitive	Subj.	Can respond (may have some lag), simple interface	Clean and simple interface, responds fast
Converting speech into notes	Binary	0	1

Functional Decomposition

App reminds user to
go on app using
notification

Ease of Use


App is accessible to
those that are visually
colour challenged

Import/export features

Audio features

Is cross-platform and
standalone

Individual Concepts

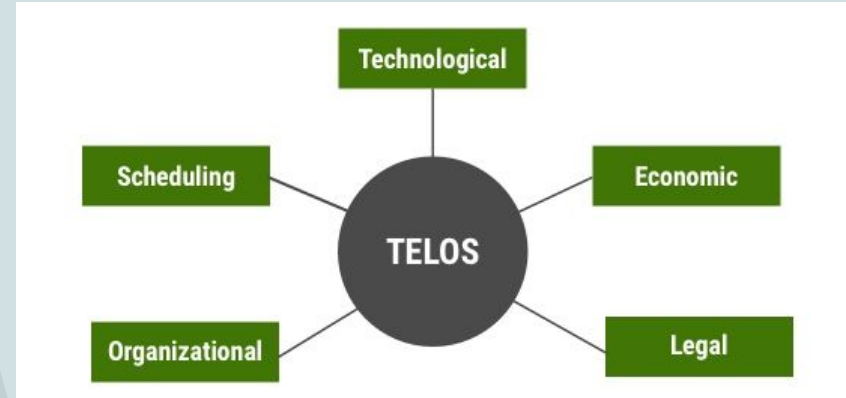
Header (edit text stuff)	
Topic #1 Note #1 Note #2	
Topic #2 Note #1 Note #2	 Photo
	Note
	Key Words

Decision Matrix

Criteria	Weight	Real notebook (reference)	Web app	Electron app	Java app
Ease of connecting notes	0.2	1	4	4	4
Platform scalability	0.15	1	5	4	4
Accessibility	0.15	1	5	4	3
Intuitivity	0.12	1	4	5	3
Frequency of sending notifications	0.09	1	3	5	5
Markers for importance	0.08	1	2	2	2
Can add photos	0.07	1	3	5	5
Stores audio files	0.06	1	2	5	5
Print to PDF	0.05	1	4	5	3
Speech-to-notes	0.03	1	2	2	2
Total score	1	1	3.8	4.17	3.68

Feasibility Study

- ▶ Technological
 - ▷ Diverse expertise
- ▶ Economical
 - ▷ None monetarily
- ▶ Legal
 - ▷ Copyrights/Patents
- ▶ Operational
 - ▷ Client satisfaction
- ▶ Scheduling
 - ▷ Software Projects



Designs

Select Note/Topic

Topic #1

Add Note

Delete topic

Note #1 - 2 months ago

Show connected notes

Add connected note

Note #2 - 1 month ago

Show connected notes

Add connected note

Topic #2

Add Note

Delete topic

Note #1 - 7 days ago

Show connected notes

Add connected note

Note #2 - 5 days ago

Show connected notes

Add connected note

Note #3 - yesterday

Show connected notes

Add connected note

Note #4 - 2 hours ago

Show connected notes

Add connected note

Topic Name

Add Topic

B / U abc

Bold Italic Underline CTRL + I

Image cap

Note Title

Note details

Last updated 3 mins ago

Delete note

View connected notes

Add keywords

Smart Annotation

Export

Home

Insert

View

Layout

References

Help

Notifications

Tools

Help

Search

B

/

U

abc

Bold

Italic

Underline

Font Color

Topic 1

Topic 2

Topic 3

+

Note 1

Note 2

Note 3

Note 4

Topic 2

Photo preview

Note 1

Photo preview

Note 3

Photo preview

Note 2

Photo preview

Note 4

Keywords for Topic 2

Note 1

...

Note 2

...

Note 3

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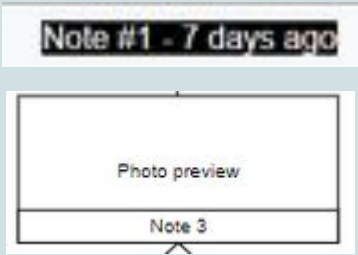
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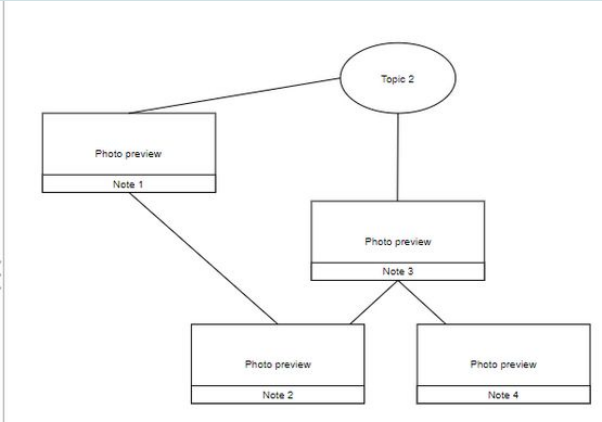
Keywords for Note 3

New Note

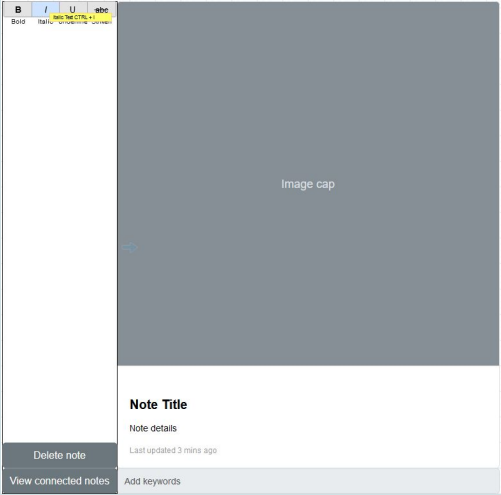
Client Interview



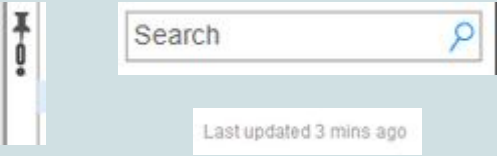
Dislikes



Points of Improvement



- 2 months ago
- 1 month ago



Add keywords

Likes

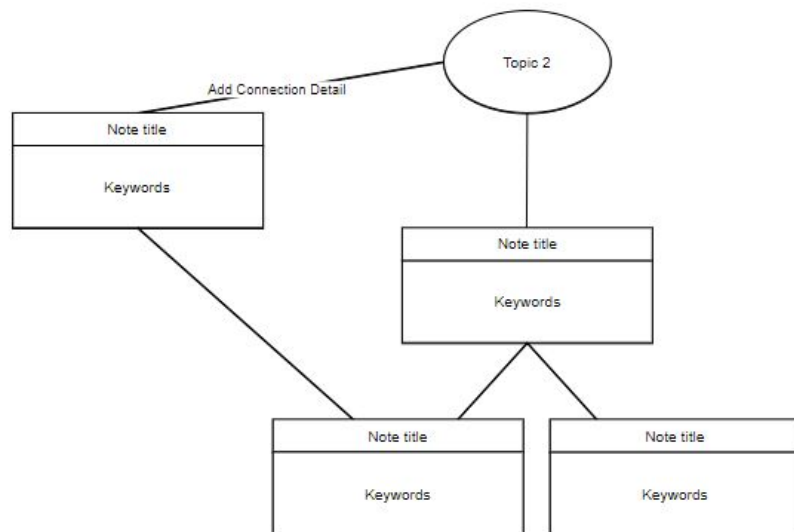
Assumptions

Manual
connections



Colorful/aesthetically
pleasing

Click on the note to open it!



...

Keywords for Topic 2

Note 1

...

Note 2

...

Smart Annotation

ExportHomeViewLayoutReferencesNotificationsHelp

B / U abc

Bold Italic Underline

List View

Mindmap View

Topic 1Topic 2Topic 3

Note 1
Note 2
Note 3
Note 4

Sort Date Earliest - Latest

Topic 1Add Note

Topic 2Add Note

Topic 3Add Note

Note 1 - last updated 2020-10-08

Note 2 - last updated 2020-07-28

Note 3 - last updated 2020-05-31

Keywords:

Open Note

Note 4 - last updated 2020-04-03

Note 5 - last updated 2020-03-01

Note 6 - last updated 2020-02-02

Note 7 - last updated 2020-01-24

Topic 4

Keywords for Topic 2

Note 1

...

Note 2

...

New Note

Smart Annotation

ExportHomeViewLayoutReferencesNotificationsHelp

B / U abc

Bold Italic Underline

List View

Mindmap View

Topic 1Topic 2Topic 3

Note 1
Note 2
Note 3
Note 4

Sort Imp. High - Low

Government Accessibility PoliciesAdd Note

Topic 2Add Note

Topic 3Add Note

Note 1

Note 2

Note 3

Keywords:

Open Note

Note 4

Note 5

Note 6

Note 7

Reminder: read book about dinosaursAdd Note

Keywords for Topic 2

Note 1

...

Note 2

...

New Note

Note Title

Export NoteHomeInsertReferences

B*I*Uabc

BoldItalicUnderlineLink

View connected notesDelete note

Insert Media
Images, PDF

Note Title

Add marker

Note details

(Right click menu)
Add symbol

Last updated 3 mins ago

Add keywords

ExportHomeViewLayoutReferencesNotificationsHelp

Export Note to PDF

Print Preview

Export Topic to PDF

Print Note

Print Current Screen

Export Map to PDF

Print Topic

Print Map

ExportHomeViewLayoutReferencesNotificationsHelp

ON

☐ Every Day at 10 am

☐ Every 2 Days at 10 am

☒ Every Week at 10 am

☐ Every Monday at 10 am

Day(s)

☐ Mon

☐ Tue

☐ Wed

☐ Thurs

☐ Fri

☐ Sat

☐ Sun

Time

9

AM



BOM

Item Number	Part Name	Description	Quantity	Unit Cost	Extended Cost
1	NodeJS	JavaScript runtime	1	\$0.00	\$0.00
2	ReactJS	JavaScript frontend library	1	\$0.00	\$0.00
3	ElectronJS	Desktop application JavaScript framework	1	\$0.00	\$0.00
4	Visual Studio Code	Open source code editor	1	\$0.00	\$0.00
					\$0.00

Plan Going Forward

- ▶ Working Prototype
 - ▷ After the modifications on the design and features, planning the next steps for the project and determining how else the project could be improved will be the goal further on
 - ▷ Testing will also be important in improving the overall user satisfaction

Prototype 2

Select Topic/Note

Topic/Note Selector

Topic 1

Add Note

Note 1
Note 2

Wed Oct 07 2020
Wed Oct 07 2020

Topic 2

Add Note

Topic name

Create new topic

