

NOTIFY

THIS IS WHERE YOU START TO WRITE.....

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• Problem Statement

"Students

and educators need a platform that integrates educational resources, collaborative note-making and efficient note creation to enhance focus and study effectiveness." Through our app, we would provide a one-stop solution for all students, including the disabled, be it from education institutes or independent learners, to reduce distractions and enhance their study efficiency by providing them with means to make the best notes,

- collaborate with peers and have educational resources integrated with our app.



Our Motivation

Our project aims to build an app

to help people create and organise their notes efficiently while integrating educational resources. Note-making is an essential part of any successful person's life. It helps an individual to understand and remember things more efficiently and effectively. Notes keep us engaged and focused in the activity. It is not limited to students, teachers, etc., but a wide range of people make notes for a meeting or workshop. In the modern era, handwritten notes have been replaced by digital notes, where everyone uses Stylus to write on a tablet or iPad, with the help of various note-taking apps. Though many note-making apps are available in the market,

they have various issues. The ones that provide a vast collection of good tools to edit and create notes are not free of cost or provide a constrained version with limited tools, and the one which is free of cost provides very few essential tools that do not enhance the user experience. Moreover, there are some privacy and security issues noted in many apps. Collaboration is

challenging with the currently developed apps. They are not even reliable (issues regarding syncing and backups). Also, many people said there are distractions while creating and revising notes digitally. Thus, we want to create an interface that can handle all these problems and provide users a soothing, pleasant experience. Our team has avidly used Different Note-taking apps like

Samsung Notes, Notion, Easy Notes, etc. However, all of them had some issues, be it about Complex Interface, being less collaborative or crashes in the software. There is a lot of scope for improvement, so our team has decided to make something that adds value to the lives of students, teachers and people. We aim to create an app that relieves some pressure from students

and even encourages them to study. We believe in creating an app that solves the issues in existing apps and creates something new and innovative, as hinted in the project's scope. Our team is motivated by the sheer fact that we ourselves have faced such problems, and hence, we can also have a good perspective as a user.

Stakeholders

STAKEHOLDERS:

- Students
- Teachers
- Developers (app dev, web dev, design dev etc.)
- Content creators
- People who make a to-do list
- Analysts / Accountants
- People who want to organize their ideas and collaborate with others



Research

LINK FOR INTERVIEWS

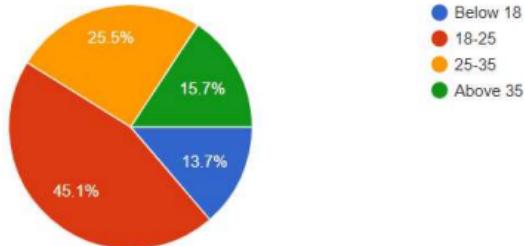
SUMMARY: Although there were some observations that we already knew were going to be according to our assumptions, some surprised us. As expected, all people liked to take notes either during the class or after the class, the former being the more popular one. Most people were open to the idea of taking notes online. Some people said that they struggled to take notes online and that if there was a note-making app that provided both customizability and simplicity in the right balance, then they would be able to make notes with better efficiency. When asked if they listened to music during the note-making process, only one person replied negatively, implying the growing importance of music in our lives. Keeping that in mind, we aimed to make an app that could take notes while playing specific music to calm you down and, in general, put you in the right state of mind for the best outcome. The interviews were also into the idea of having specific parts of a video from YouTube/audio side by side with your notes to help better understand them. (Eg. - If you had notes about the French Revolution, you could have a specific video about some event in the Revolution to help understand the notes better.) All of them said that they would be more productive if they had more customisable features in an app, further cementing the need for learnability and memorability. In all, people wanted an app that would be handy while also being customisable and double as their music player.

Google Forms

[Google Forms Link](#)

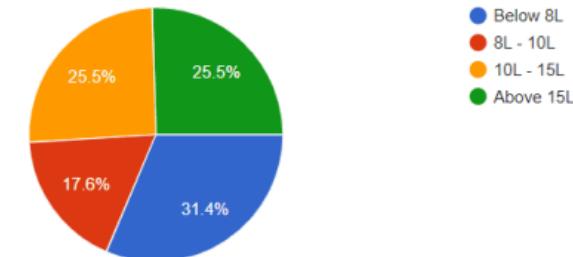
What is your age group?

51 responses



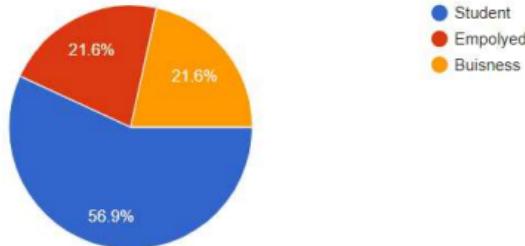
What is your family income?

51 responses



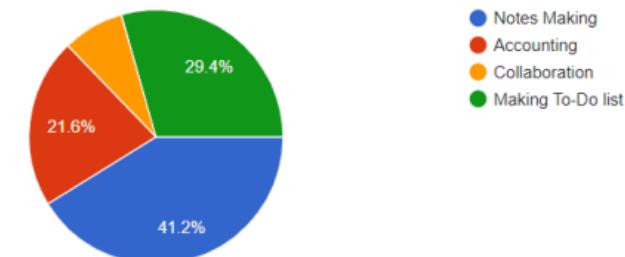
What is your profession?

51 responses



What can you use a note making app for?

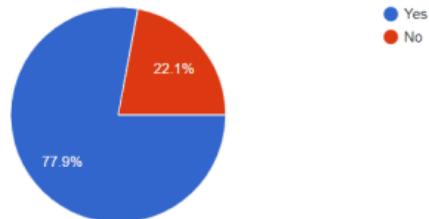
51 responses



Google Forms

Do you like taking notes?

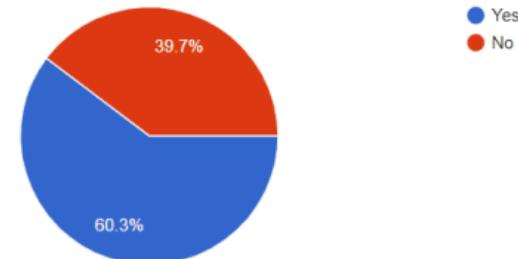
68 responses



Copy

Have you used a note making app before?

68 responses



Yes
No

Which type of notes would you prefer?

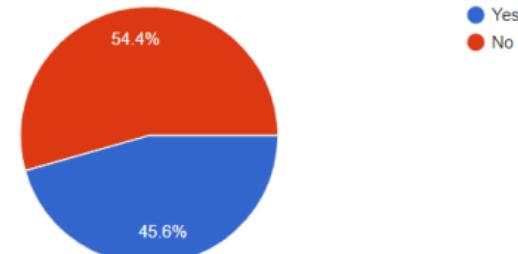
68 responses



Copy

Do you struggle taking notes online?

68 responses



Yes
No

Google Forms

If yes, then what all problems did you face when last using any note making app.

18 responses

not at all

Laziness

Hard to draw, choosing write fonts takes time.

Writing it is better and easier than doing it on a digital version

Did not get the hang of it. Need simple layout.

They do not have what i need.

I have to switch tabs a lot to take notes and watch lectures at the same time

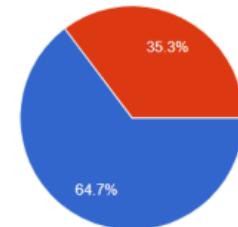
Too many tools

Not able to use YouTube while taking notes as it is supported in only premium version

Crashes sometimes when used for much time

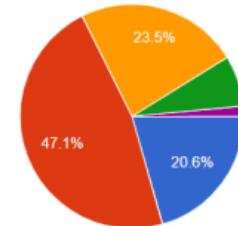
Do you like listening to music while making your notes to wind off?

68 responses



What do you feel about a note making app which can double as your video/music player?

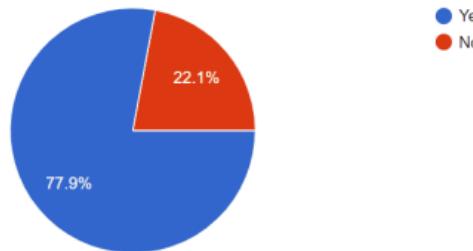
68 responses



Google Forms

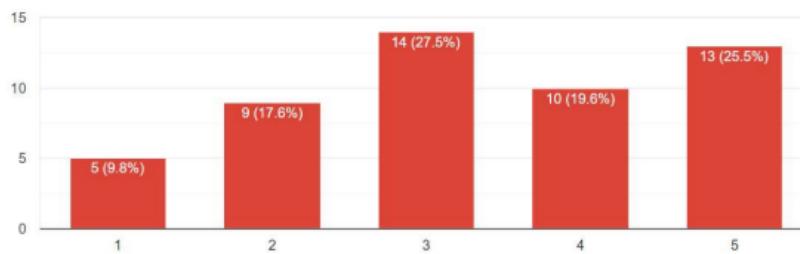
Do you feel you would be more productive if you had more customizable features in such an app?

68 responses



How do you like a note making app with integrated API's of different apps (yt, classroom, gmail etc)?

51 responses



Copy

What features would you recommend in a note making app?

26 responses

PDF reader, pdf to notes. Almost all academic material is either a pdf, ppt or word file, if notes can be exported or imported in these formats and you could read and make auto notes from this format to that format, it would be great

snipping tool

Exclusive content to build my concentration

Handwriting interpreter

I would recommend that all the features related to text should be present adjacent to each other and multiple fonts, colours should be provided. And changing the size of the text should be smooth. It should give a preview of the text first in order to decide if we should go forward or change it further.

Multiple annotations
Highlight feature
Good interface
Option for inserting media

PERSONAS AND SCENARIOS

DEMOCRAPHICS

Age: 45
Location: Toronto, Ontario
Education: PhD
Jobs: Professor at UOT
Family: Lives in a joint family

FRUSTRATIONS

During classes, Mrs. Proffy likes to make notes on her laptop and then share them with her students which can be used later for revision. However, the current app doesn't support this feature.

SCENARIO

Mrs. Proffy is the most loved prof in the entire university. She not only teaches well but also helps every student to excel in their studies. A digital note-taking app would be a great idea to be taught the next day to her students. She starts her class shortly after the allotted class time. During her lecture, she reads from the slides, one side by side. Keeping reading the notes while looking at the screen is the advantage of her class as it allows simultaneous view. She is now able to write notes properly and even categorize them according to the date or time of writing. The different colours of text make the notes look more attractive. She is now happy with the new app and looks forward to helping other students who can't attend her class.

NEEDS

Mrs. Proffy would like to have a note-taking app that has the following features. The app should have proper features for categorizations. The app should also be able to share notes with other students. It should have a feature where users can add their own notes and edit them. It should also like if the students offer revising the notes, make a copy of the notes and edit themselves so that they could add things that they feel are important for them.

DEMOCRAPHICS

Age: 25
Location: Rohtak, Haryana
Education: Mtech,[C&A]
Jobs: Student
Family: Lives with brother

FRUSTRATIONS

Yogesh Rana, unfortunately, was born blind. Even after his condition, he was outstanding in his studies. He completed his mtech and was doing a PhD. Due to his blindness, he couldn't write notes on paper to read them later. He requires an app that would help him write notes.

SCENARIO

With the app's help, Yogesh now makes his notes very easily. Early in the morning, he goes to his class and switches on the speech-to-text option, and as the professor speaks, he gets his notes written down. Later in the evening, he switches on the text-to-speech option through a voice guided interface and, listens to the notes written down and revises what was taught in the class.

NEEDS

Yogesh requires an app that would help him in his note-taking. An app that would have both the option of speech-to-text as well as text-to-speech. An app that could also switch between the two options and different available options like different templates, previously saved notes, etc, by speech guiding.

DEMOCRAPHICS

Age: 17
Location: Pothiwal, Punjab
Education: 10+2
Jobs: Student
Family: Lives with parents

FRUSTRATIONS

Sharan Singh was born into a poor family. His mother is ill and his father is not able to earn much. They even afford to buy notebooks. Her mother brought him a phone with her and he wants to use it but his family can't afford to use it for his studies. He wants an app to make his notes digital and accessible to him at all times. He can't afford to buy the premium membership of the app.

SCENARIO

Sharan Singh is a hardworking child whose dream is to clear the civil services exam. For this, he has started his preparation early. Using the new app, he makes his notes and revises them, too. He goes to a public library, clicks the pictures of the main topics in the book and inserts them in his notes. He then makes bullet points under the picture using the text option. He also likes using different colours, which make the notes look more attractive. He also helps other poor people by sharing his notes with them.

miro link

DEMOGRAPHICS

Age: 65
Location: Toronto, Canada
Education: PhD.
Job: Professor at UOT
Family: Lives in a joint family



Mrs. PROFFY

FRUSTRATIONS

During classes, Mrs. Proffy likes to make notes of the class herself and then later share them with her students which can be used later on by the students as a source of revision. However, the current app doesn't support proper categorization and she is not able to properly share notes with her students.

NEEDS

Mrs Proffy would like to have a note-taking app that is easy to learn how to use. The app should have proper features for categorizations. The app should also be able to share notes with many individuals at the same time. She would also like if the students after receiving the notes make a copy of the notes and edit themselves so that they could add things that they feel are important to them.

SCENARIO

Mrs. Proffy is the most loved prof in the entire university. She not only teaches well but also helps every student to excel in their studies. A day before, she prepared the lecture slides to be taught the next day to her students. She starts her class sharply at the allotted class time. During her lecture, she reads from the slides and, side by side, keeps writing the notes on the new app, which the students of her class can simultaneously view. She is now able to write notes properly and even categorize them according to the date or time of writing. The different colours of text make the notes look more attractive. She is now happy with the new app and looks forward to helping other students who can't attend her class.

DEMOGRAPHICS

Age: 25
Location: Rohtak, Haryana
Education: Mtech.(CSAI)
Job: Student
Family: Lives with brother



Yogesh Rana

I may be blind, but my heart can see everyone

FRUSTATIONS

Yogesh Rana, unfortunately, was born blind. Even after his condition, he was outstanding in his studies. He completed his mtech and was doing a PhD. Due to his blindness, he couldn't write notes on paper to read them later. He required an app that would help him write notes.

NEEDS

Yogesh requires an app that would help him in his note-taking. An app that would have both the option of speech-to-text as well as text-to-speech. An app that could also guide him through the menu and different available options like different templates, previously saved notes, etc, by speech guiding.

SCENARIO

With the app's help, Yogesh now makes his notes very easily. Early in the morning, he goes to his class and switch on the speech-to-text option, and as the professor speaks, he gets his notes written down. Later in the evening, he switch on the text-to-speech option through a voice guided interface and, listens to the notes written down and revises what was taught in the class.

DEMOGRAPHICS

Age: 17
Location: Pathankot, Punjab
Education: 10+2
Job: Student
Family: Lives with parents



FRUSTATIONS

Sharan Singh was born into a poor family. His mother is a maid, and his father is unemployed. Sharan can't even afford to buy notebooks. Her mother bought him a phone with her savings of two years so that he could use it for his studies. He wants an app to make his notes digital and access them whenever possible. He can't afford to buy the premium membership of the apps.

NEEDS

Sharan would like an app that would give him access to all the features without needing to buy the premium membership of the app. He wants an app where he can add text and images from the books. He also wants that whenever he writes his notes get synced to his account, and is able to access them even when he is offline.

SCENARIO

Sharan is a hardworking child whose dream is to clear the civil services exam. For this, he has started his preparation early. Using the new app, he makes his notes and revises them, too. He goes to a public library, clicks the pictures of the main topics in the book and inserts them in his notes. He then makes bullet points under the picture using the text option.

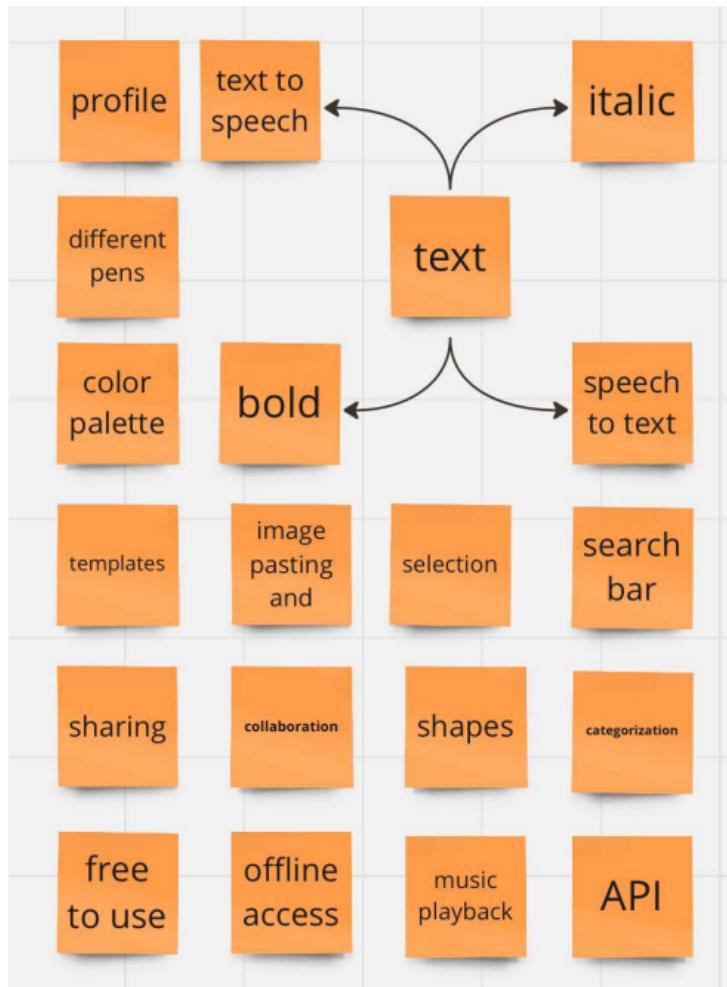
He also likes using different colours, which make the notes look more attractive. He also helps other poor people by sharing his notes with them.

MIND MAP



AFFINITY MAPPING

[miro link](#)



STORY BOARDING

The storyboard consists of six panels arranged in two rows of three. The top row shows a sequence of events: 1. Devin and Sarah are in high school and their final exams are approaching. 2. Sarah browses for the best note-making app and finds Notify. 3. Sarah starts using Notify while listening to music and watching lectures. The bottom row shows: 4. Sarah invites Devin to collaborate on notes and study chemistry together. 5. Devin, who is blind, uses the speech-text features of the app to study chemistry. 6. The result day comes, and Sarah and Devin ace their exams.

Panel 1: Devin and Sarah are in high school and their final exams are approaching

Panel 2: At Home Sarah browses for the best note making app and stumbles across Notify!

Panel 3: She starts using the app to make notes while listening to music and watching lectures all within the app. Notify has all these features already integrated

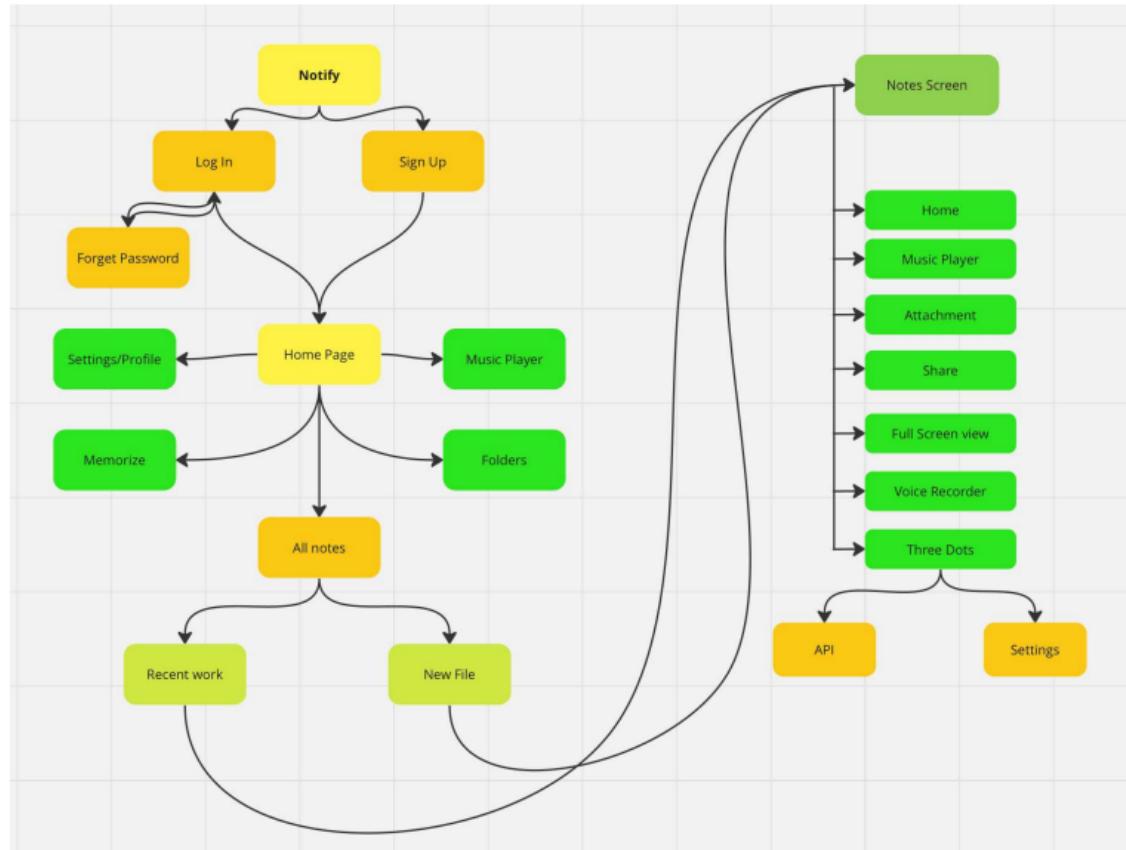
Panel 4: She quickly invites her best friend Devin to collaborate on the notes and study chemistry together

Panel 5: Devin is blind but has no issues using this app as he uses the app's speech-text features

Panel 6: The result day comes... Sarah and Devin ace thier exams!!!

canva link

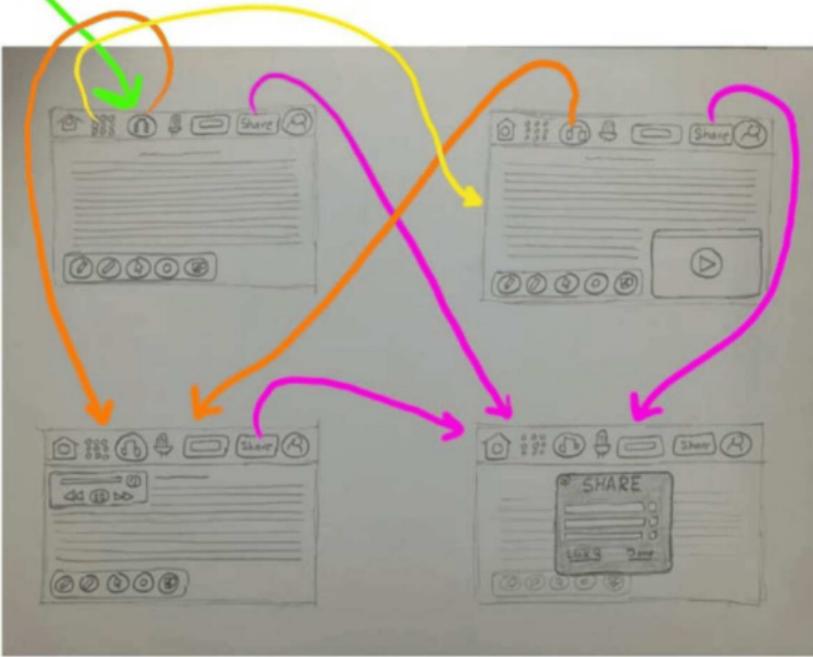
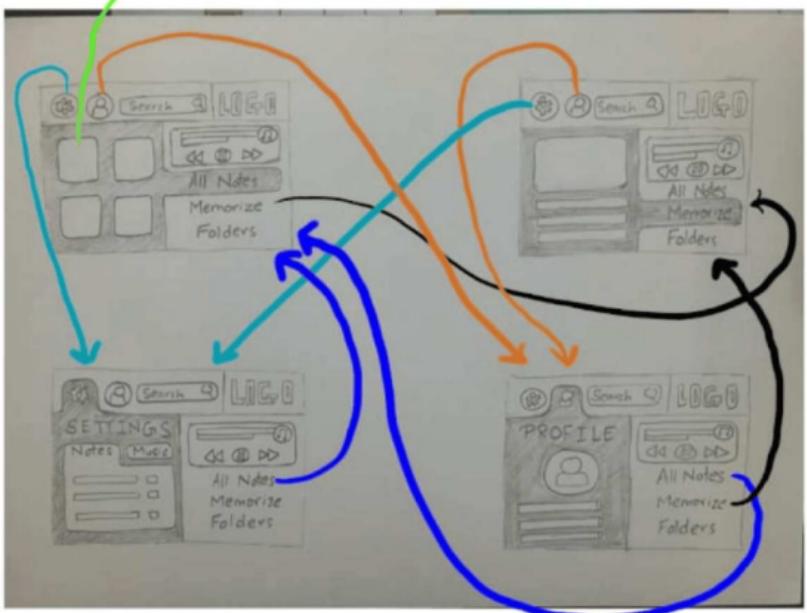
INFORMATION ARCHITECTURE



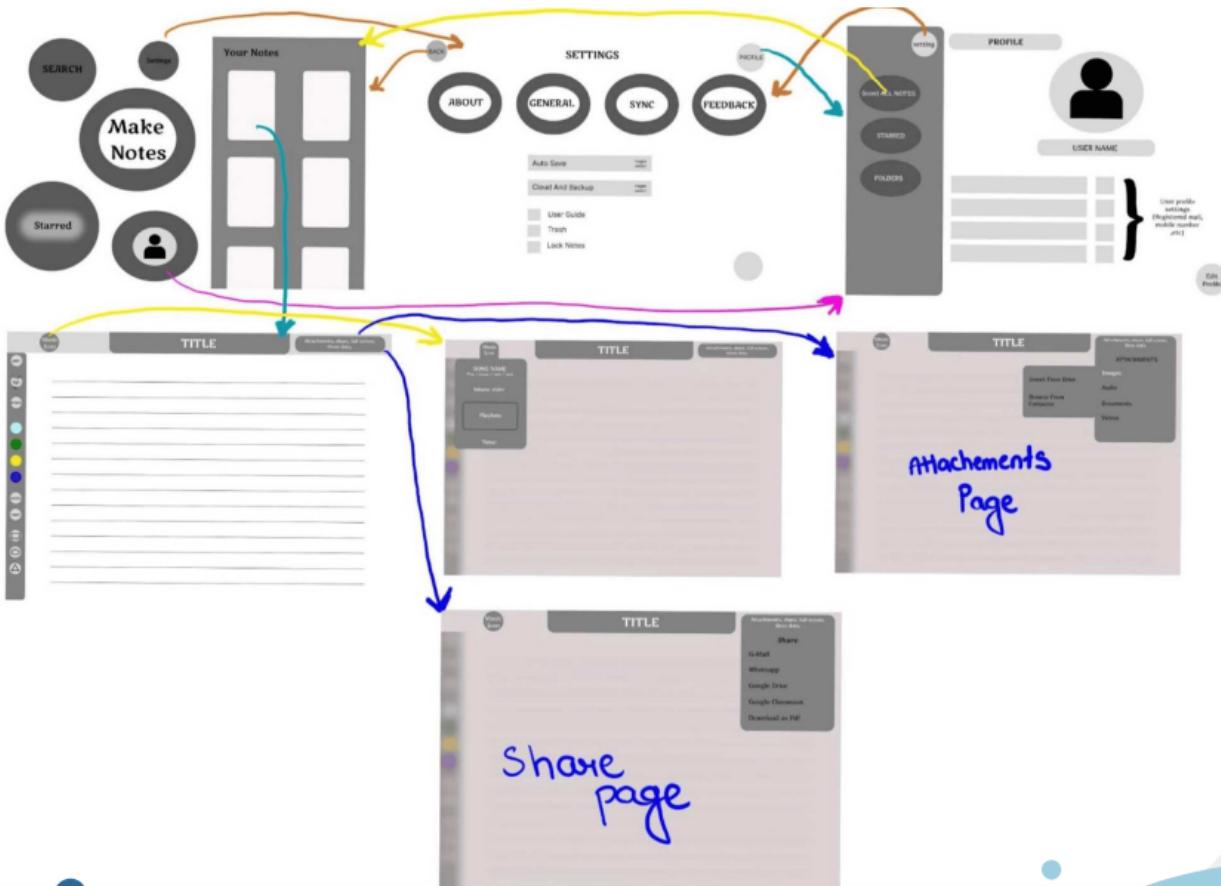
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TASK FLOW

#1 LOFI FLOW



#2 LOFI FLOW

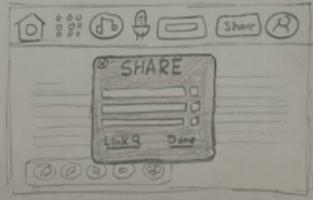
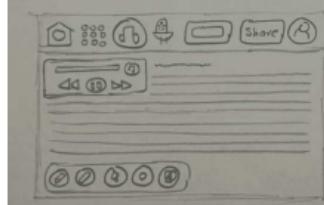
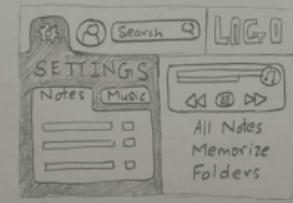
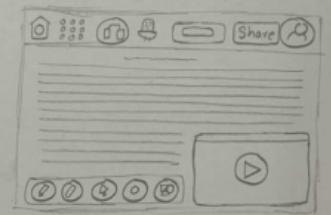
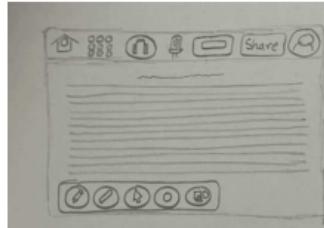
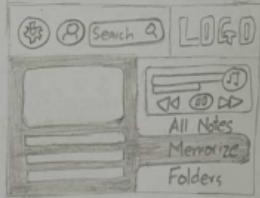
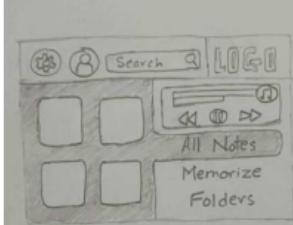


MID-FI FLOW

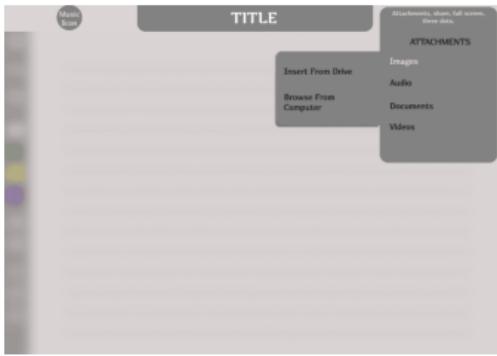
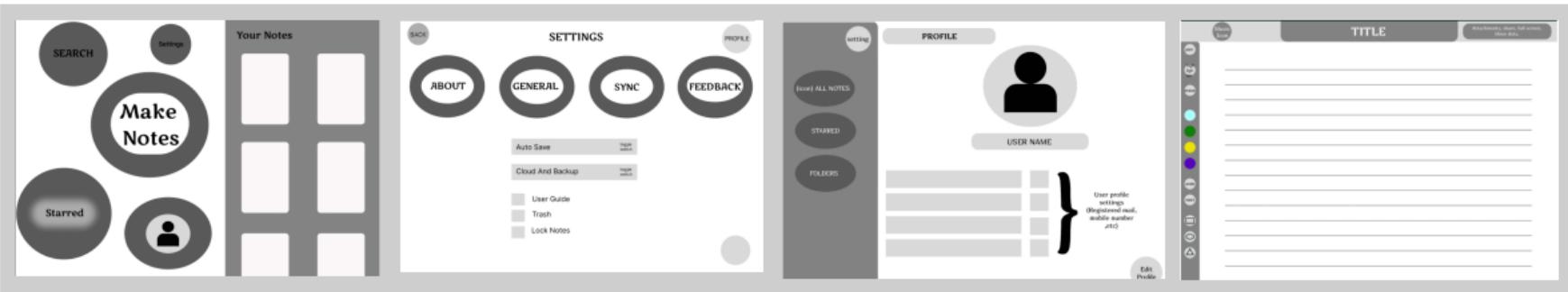


LOW-FI

#1 LOFI DESIGN



#2 LOFI DESIGN



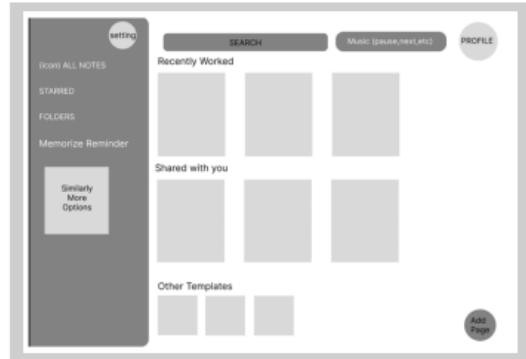
figma link

LOFI EVALUATION

Akin to our interview during requirement gathering, in this interview too, people praised the general overview of the app and the initiative as a whole. Most people liked the simple yet concise layout of the homepage, although some people said it could be a little congested. The fact was that you could access every single setting from the homepage in just one click. People praised the button placement on the homepage as well as the sizing of the buttons with respect to each other. When asked about the note editing window itself, it too was filled with great and positive remarks. People praised the note editing window for having just the right amount of buttons and hiding the extra buttons inside the extra settings button. People were overly positive about our unique note code feature wherein you could send your notes to other people, giving them specific access to your notes(view only, view and edit). [Teacher sending notes to student - View only] [Friend sending notes to another friend - View and edit/ collaborate] There was criticism for the note-making window also. Some people were fearful that the bottom bar for the editing window would hinder the way of making notes as it could be touched accidentally (We eradicated the problem by making this a sidebar in the alternate design). Some were doubtful that there would be accidental touches from your palm and wrist, which could mess things up, but that too could be solved through accidental touch protection software. Overall, the interviewees thought that our app was a balanced one and would be a great help to people who struggle to make notes without music or without having some reference videos to play with their notes

[link for interview](#)

MID-FI



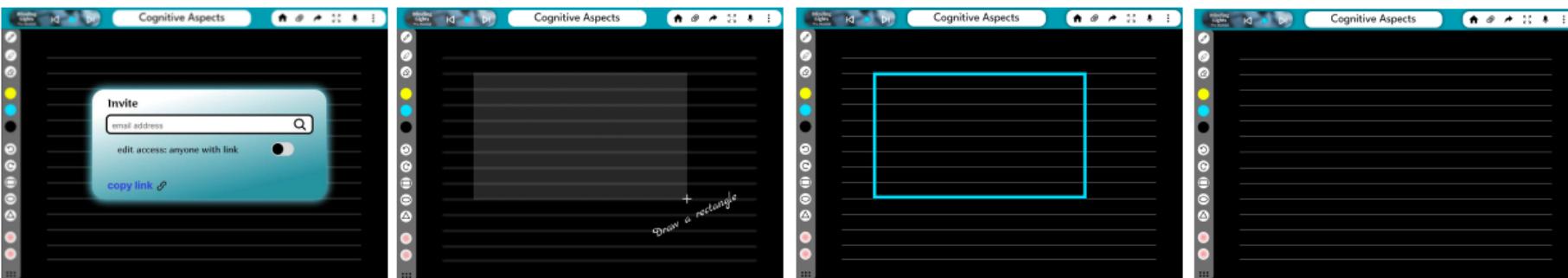
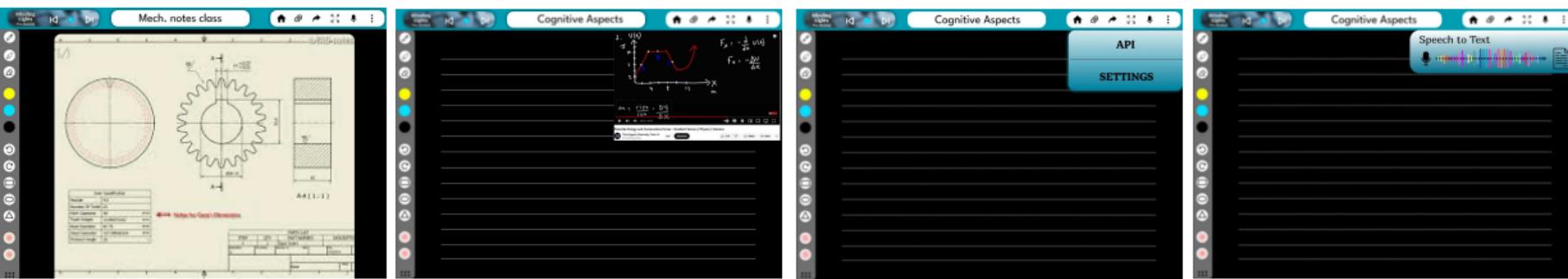
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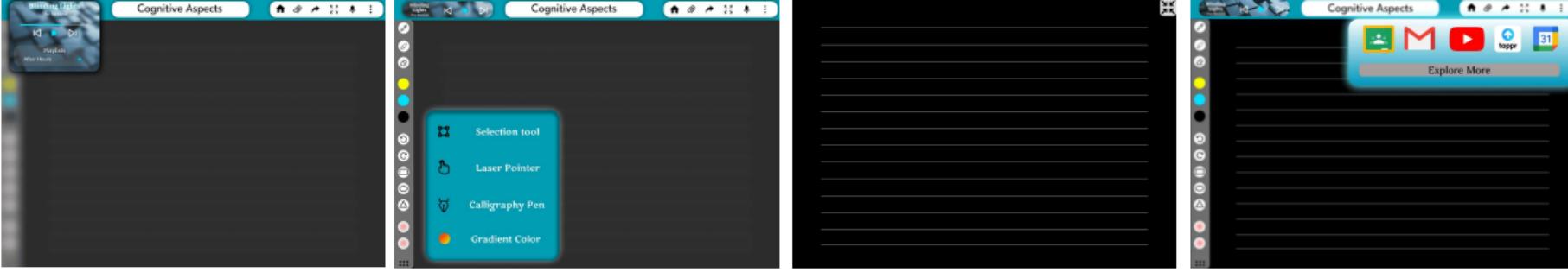
Hi-Fi design

Have a look at the pictures first

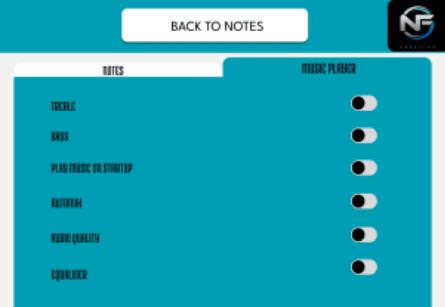
The image displays a sequence of mobile application screens illustrating the Hi-Fi (High Fidelity) design phase. The screens are arranged horizontally, showing different stages of the user interface.

- Sign-up/Login Screen:** Features a logo at the top, followed by 'SIGN-UP' and 'LOG-IN' buttons. Below these are three sign-in options: 'With Google', 'With Email', and '+91 Enter Mobile Number'. A 'Forgot Password?' link is at the bottom, along with terms and privacy policy links.
- Forgot Password Screen:** Shows a message: 'An OTP has been sent to your registered mobile number/email. Please enter the 6 digit OTP.' Below is a numeric keypad with numbers 1-9, 0, and backspace. A 'Back to Login' button is at the bottom.
- Welcome Screen:** Displays a 'WELCOME, USER' message with a profile icon and a gear icon. It includes a search bar, a play button, and sections for 'RE NOTES', 'Memorise', and 'Folders'. A cartoon illustration of two people is also present.
- Recent Notes Screen:** Shows a grid of recent notes. A message at the top says: 'Enabling this app will send you notifications to review your notes every two weeks (Select the notes for which you want a reminder)'. Below are sections for 'Recent:', 'School Notes', 'few - Day notes', and 'Memorise'.
- Recent Notes Screen (Second View):** Similar to the previous screen, but with a 'DONE' button at the bottom instead of a 'Recent:' section.
- Recent Notes Screen (Third View):** Similar to the previous screens, showing a different arrangement of notes and sections.
- Recent Notes Screen (Fourth View):** Similar to the previous screens, showing a different arrangement of notes and sections.





The first two screenshots show the main interface with a profile picture of Nicholas Adams, a search bar, and a central note/music player area. The third screenshot shows a 'NOTES' screen with 'GENERAL' and 'ADVANCED' tabs, and a 'MUSIC PLAYER' tab. The fourth screenshot shows a 'NOTES' screen with 'GENERAL' and 'ADVANCED' tabs, and a 'MUSIC PLAYER' tab.



I hope you liked the pictures see the actual working of the app by clicking at this

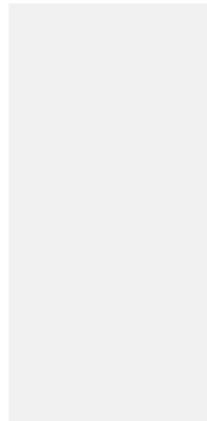
[LINK](#)

Colors & Typography

- These were the colors used:



009EB4



F1F1F1



000000



FFCF66

And we used
'Marko One'
as our font for
almost the entire
app :)

Logo

Presenting to you the logo!!

We have decided that our app will called “NOTIFY” which is made up of two words notes+spotify. It signifies that we have made an app that helps to create notes efficiently and effectively as well as highlights our one of the main features i.e., providing in built music player. Also, it can be related to notification in the sense that highlights our second feature of giving memorize notification regularly. “CREATIVE” mentioned below the logo represents that our app will support in all possible ways to help user to create new things and do there notes related stuff in smoothest and creative way.



User Testing and Evaluation (Hi-Fi)

- There were many appreciations as well as criticism about our hifi project. Starting from the sign in page, the sign-up button and the login button had a gap between them and were not perfectly placed. Coming to the forgot password page, there was no option to enter your mobile number. Coming to the home page, the users did not like the inconsistency between the fonts across the app. There were also inconsistencies between the layouts of the buttons which would be fixed . There was the problem of contrasting effects on different parts of the project. There was also the concern of the nature of the file saved as our notes file. The users were confused in which file format would the file be saved. There were also some settings that really did not need a toggle switch but they had one. There was also the problem of less customization in the side-bar of the note editing window. We could not know how to change the icons given in the side-bar. Overall the response was lukewarm, but we hope to make it a good one in the near future.

User Testing and Evaluation (Hi-Fi)

The interviews taken are kept hidden in our google drive folder to access them click over this magical link given below!!

[CLICK HERE TO OPEN THE LINK](#)

Learnings

Introduction

The project aimed to develop a note-making application which was aimed to make a difference in the existing note making apps market with its customizable features and an integrated music player to help better make notes.. The goal was to create a user-friendly interface that anyone can use and allow users to take notes efficiently while enjoying their favorite music.

Learnings

Throughout the project, we learned a lot about user interface design and feature integration. We gained hands-on experience in HCI, UX/UI, ID and design principles of HCI. Not Just that, we also learned how to integrate users in our design process, our team tried level best to create "new and innovative" ideas and functions, and not just go with the flow.

Collaborations

Working in a team taught us the importance of communication and collaboration. We had to constantly coordinate with each other to ensure that everyone was on the same page about the project and that every person knew what the other person's work was. This experience helped us improve our interpersonal skills and understand the dynamics of teamwork. As the projects were filled with deadlines we also were taught valuable lessons in time management. Balancing the development of different features and meeting deadlines was a challenging task yet it was rewarding to say the least. However, with proper planning and prioritization, we were able to complete the project on time not missing one deadline.

Reflection

Successes

One of the major successes of the project was the customizability of the note-making app. Users can personalize their note-taking experience, which makes the app more engaging and user-friendly. The integration of the music player was also a success, adding a unique feature to the app. Apart from this, we also added a "memorize" function which helps the users to retain the information of certain notes. We researched about it and the Learning Curve, this function has also been a success. We also made the app more collaborative, moreover we have shown that we can use API's (namely of Youtube, Google Classroom, etc.) inside the app itself. The users like our features and the direction in which we are headed as a team.

Challenges

The main challenge was integrating the music player with the note-making app. It required a deep understanding of both components and how they could work together without affecting the performance of the app. However, with persistent effort and problem-solving, we overcame this challenge.

Reflection

Conclusion

Overall, this project was a great learning experience and a way to practice everything we have learnt till now in HCI. Moreover, it not only enhanced our technical skills, but also taught us about teamwork and project management. We also would like to thank our professors', and TA's, who took out time to teach and guide us. Each member of our group looks forward to applying these learnings in our future projects.

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