

# Android Dev

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## Overview

Our project is to build an utility android app. It is similar to the present day [Notion app](#). We aim to provide tools in assisting document generation and also integrate with google drive storage medium. We also plan to integrate live collaboration, p2p video and voice chat and workspace sharing. The app will be using markdown markup language to dynamically generate ui elements and for easy storage of the user document.

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## Related Work

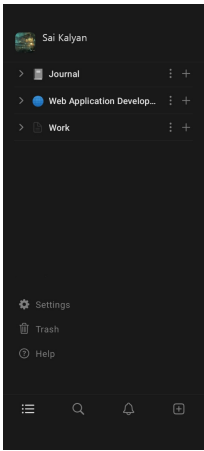
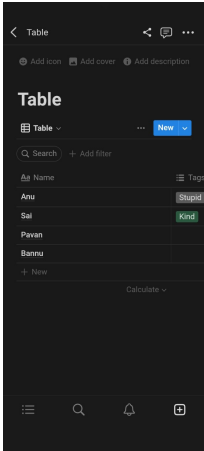
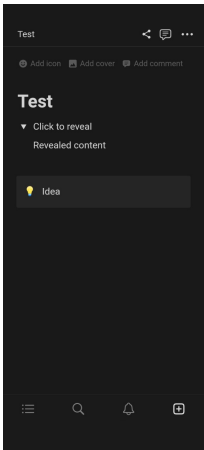
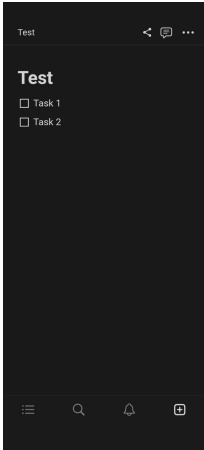
It is similar to Notion app, and has few unique features. One which is integrating with Gdrive, and p2p video and voice chat. There could be a downgrade in the visual elements due to material design constraint in android.

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## Requirement Analysis and Testing

\*(This section should clearly describe all features/requirements that you plan to implement or have implemented for your application. You should separate them into three categories: essential, desirable and optional.

Title	View project details (Essential)	View project details (Desirable)	View project details (Optional)
Description	Our project is to build an utility android app similar to <a href="#">Notion app</a> . We aim to provide tools in assisting document generation and also integrate with google drive storage medium.	Additionally, We plan to integrate live collaboration, p2p video and voice chat and workspace sharing as desirable options.	The app can also have markdown markup language to dynamically generate ui elements and also for easy storage of the user document.

Title	View project details (Essential)		View project details (Desirable)	View project details (Optional)
Mockups	sample_main	sample_page1		
				
				
	Acceptance Tests	UI components dynamic creation and data Retention of notion app in GDrive.	Testing of p2p networking, voice chat and live collaboration	markdown parser development
Test Results				
Status				

Timeline

Iteration	Application Requirements			Android Components and Features	member 1 contribution/tasks	member 2 contribution/tasks
	Essential	Desirable	Optional			
1	App Layout UI tools development	Complex UI development such as table and kanban board	Hyperlinks and image ui integration.	Jetpack Compose	Design and implement app layout	Functional Implementation of components

Iteration	Application Requirements			Android Components and Features	member 1 contribution/tasks	member 2 contribution/tasks
	Essential	Desirable	Optional			
2	Serialization of UI data and integrating gdrive api.	Integrating voice and video chat using webrtc protocol.	serialization of data in the form of markdown markup language.	Google Drive Kotlin APIs'	GDrive Integration	P2P Networking implementation
3	Unit testing of functional components and gdrive api.	Live collaboration of the document with invited friends.	None	JUNIT and UI Testing	JUNIT test cases and live Testing of the app	Live Collaboration feature implementation

## References

[Notion app](#)