

# **Google Keep Clone**

**A PROJECT REPORT  
for  
Mini Project (KCA353)  
Session (2023-24)**

**Submitted by**

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**MASTER OF COMPUTER APPLICATION**

**Under the Supervision of  
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**Submitted to**

**DEPARTMENT OF COMPUTER APPLICATIONS  
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**( MARCH 2024 )**

## **CERTIFICATE**

Certified that **Ankit Chauhan 2200290140029** has/ have carried out the project work having “**Title of Report** Google Keep Clone ” (**Mini Project-KCA353**) for **Master of Computer Application** from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself/herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

**Date:**

**Ankit Chauhan ( 2200290140029)**

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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

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## **ABSTRACT**

In this project, we present a Google Keep clone developed using ReactJS, a popular JavaScript library for building user interfaces. The application aims to replicate the core functionalities of Google Keep while leveraging the power and flexibility of ReactJS to create a seamless user experience. Users can create, edit, delete, and organize notes, utilizing features such as color-coding, reminders, and archiving. The application also incorporates responsive design principles, ensuring compatibility across various devices and screen sizes. Through this project, we demonstrate the capabilities of ReactJS in building dynamic and interactive web applications, as well as provide a practical example of implementing a familiar productivity tool.

**Ankit Chauhan**

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**Ankit Chauhan**

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# CHAPTER 1

## INTRODUCTION

In an age where digital organization and productivity are paramount, note-taking applications have become indispensable tools for individuals and teams alike. Google Keep stands out as a widely acclaimed platform, offering users a seamless experience for capturing ideas, making lists, and organizing thoughts in a digital format. Inspired by the success of Google Keep, this project introduces a clone developed using ReactJS, a leading JavaScript library renowned for its efficiency in building dynamic user interfaces.

### 1.1 Overview

Imagine having a digital notebook that works just like Google Keep, where you can jot down your thoughts, make lists, and set reminders, but with a twist – it's built using a cool technology called ReactJS! This project is all about creating a copycat version of Google Keep that runs smoothly on your computer or phone.

Here's what you can do with it:

- **Take Notes:** Just like writing on sticky notes, you can type out your ideas, to-dos, or anything you want to remember.
- **Get Organized:** Want to keep things neat? You can color-code your notes to help you find them easily later.
- **Remember Important Stuff:** Set reminders so you won't forget important meetings or tasks. Your digital assistant will give you a heads-up when it's time.
- **Tidy Up Your Space:** When your notes pile up, you can tidy them away into a digital drawer called "Archive," keeping your workspace clutter-free.
- **Use It Anywhere:** Whether you're on your computer, tablet, or phone, this Google Keep clone works smoothly on any device, adjusting to fit your screen perfectly.

## 1.2 Description

"Ever used Google Keep to jot down notes or make lists? Well, imagine if you could create your own version of it, but with a twist! This project is like building a copy of Google Keep, but with a special tool called ReactJS. It's like making a digital notebook that you can use on your computer or phone.

You can write down anything you want to remember, like ideas or tasks, and organize them with colors to make things look nice and neat. Plus, you can set reminders so you won't forget important stuff.

And here's the cool part - you can use it on any device! Whether you're on your computer, tablet, or phone, it works smoothly everywhere.

## 1.3 Key Features

**Note-Taking:** Write down your thoughts, ideas, or to-do lists just like on sticky notes.

**Archiving:** Store away old notes to keep your workspace clutter-free without deleting them permanently.

**Responsive Design:** Works seamlessly on all devices, whether you're on a computer, tablet, or phone.

**Trash:** Accidentally delete a note? No worries! The Trash feature acts like a digital recycle bin where deleted notes are temporarily stored. You can easily retrieve them if needed or permanently delete them to free up space. It offers peace of mind, knowing that you can recover mistakenly deleted notes without hassle.

## 1.4 Objectives

**Accidental Deletion Prevention:** The primary objective of the Trash feature is to prevent accidental loss of important notes by providing a safety net for deleted content.

**Temporary Storage:** It aims to temporarily store deleted notes in a designated area, allowing users to recover them if they were deleted unintentionally.

**User Confidence:** By implementing a Trash feature, the application aims to instill confidence in users, knowing that they can easily recover mistakenly deleted notes without permanent loss.

**Convenience:** The Trash feature provides a convenient way for users to manage their deleted content, offering options to restore or permanently delete notes as desired.

**Organizational Aid:** Additionally, the Trash feature serves as an organizational aid, helping users declutter their workspace by separating active notes from deleted ones.

## **CHAPTER 2**

### **FEASIBILITY STUDY**

#### **2.1 Technical Feasibility**

Assessment of Existing Infrastructure: Evaluate the current system architecture and database structure to determine compatibility with implementing the Trash feature.

Technology Stack: Identify suitable technologies and frameworks for implementing the Trash feature, considering factors such as database management, user interface design, and data recovery mechanisms.

#### **2.2 Operational Feasibility**

Cost Analysis: Conduct a cost-benefit analysis to assess the financial implications of implementing the Trash feature, including development costs, infrastructure expenses, and potential revenue generation.

Resource Allocation: Determine the allocation of resources such as manpower, time, and budget required for developing and maintaining the Trash feature over time.

#### **2.3 Economic Feasibility**

User Acceptance: Assess the level of user demand and acceptance for the Trash feature through user surveys, feedback collection, and market research.

Integration with Workflow: Evaluate how seamlessly the Trash feature integrates with the existing user workflow and whether it enhances or complicates the user experience.

Training and Support: Plan for user training and support mechanisms to ensure users understand how to utilize the Trash feature effectively and resolve any issues or concerns they may encounter.



# CHAPTER 3

## SYSTEM ARCHITECTURE

### 3.1 Data Flow Diagram

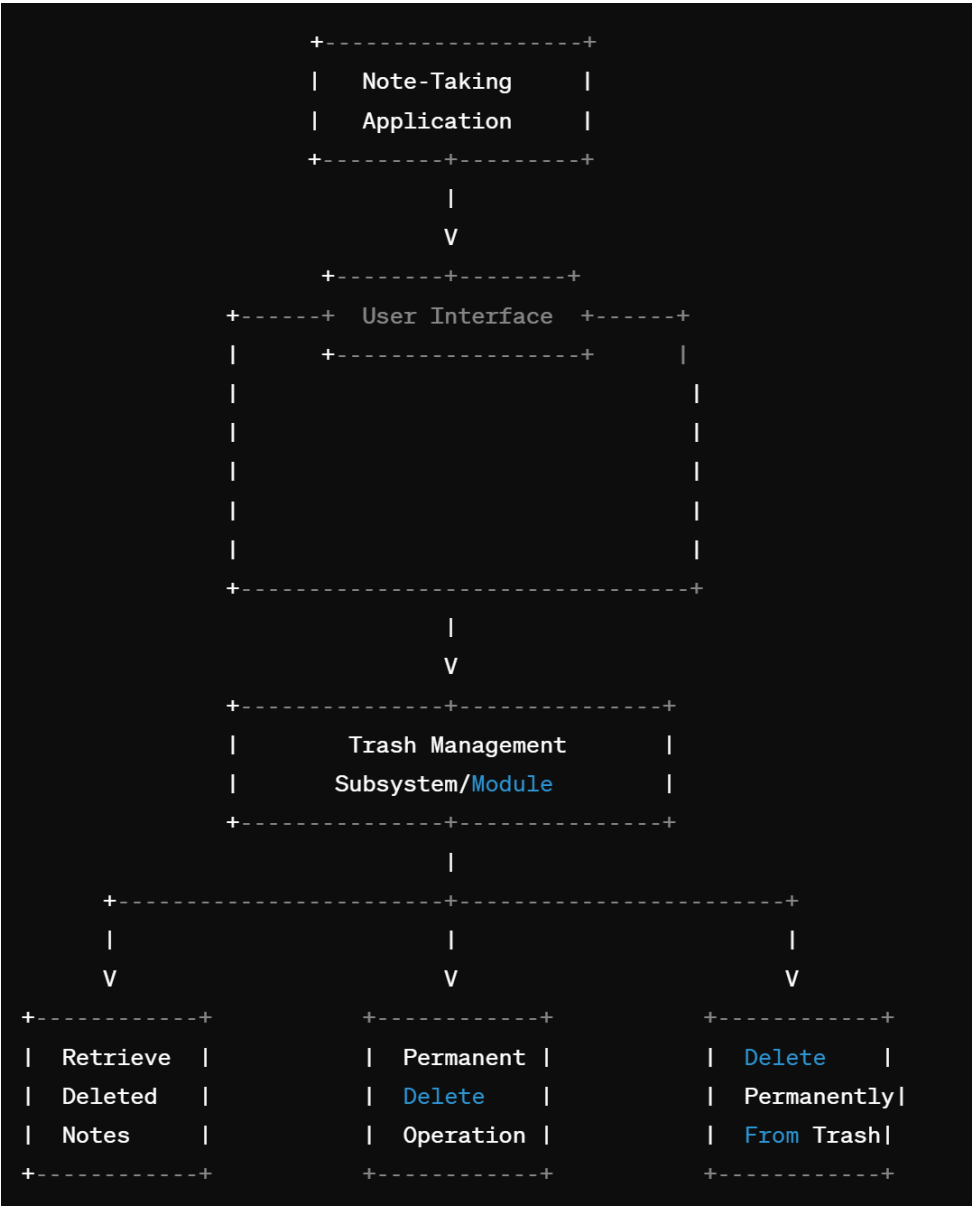


Fig 3: DFD

### 3.2 Use Case diagram

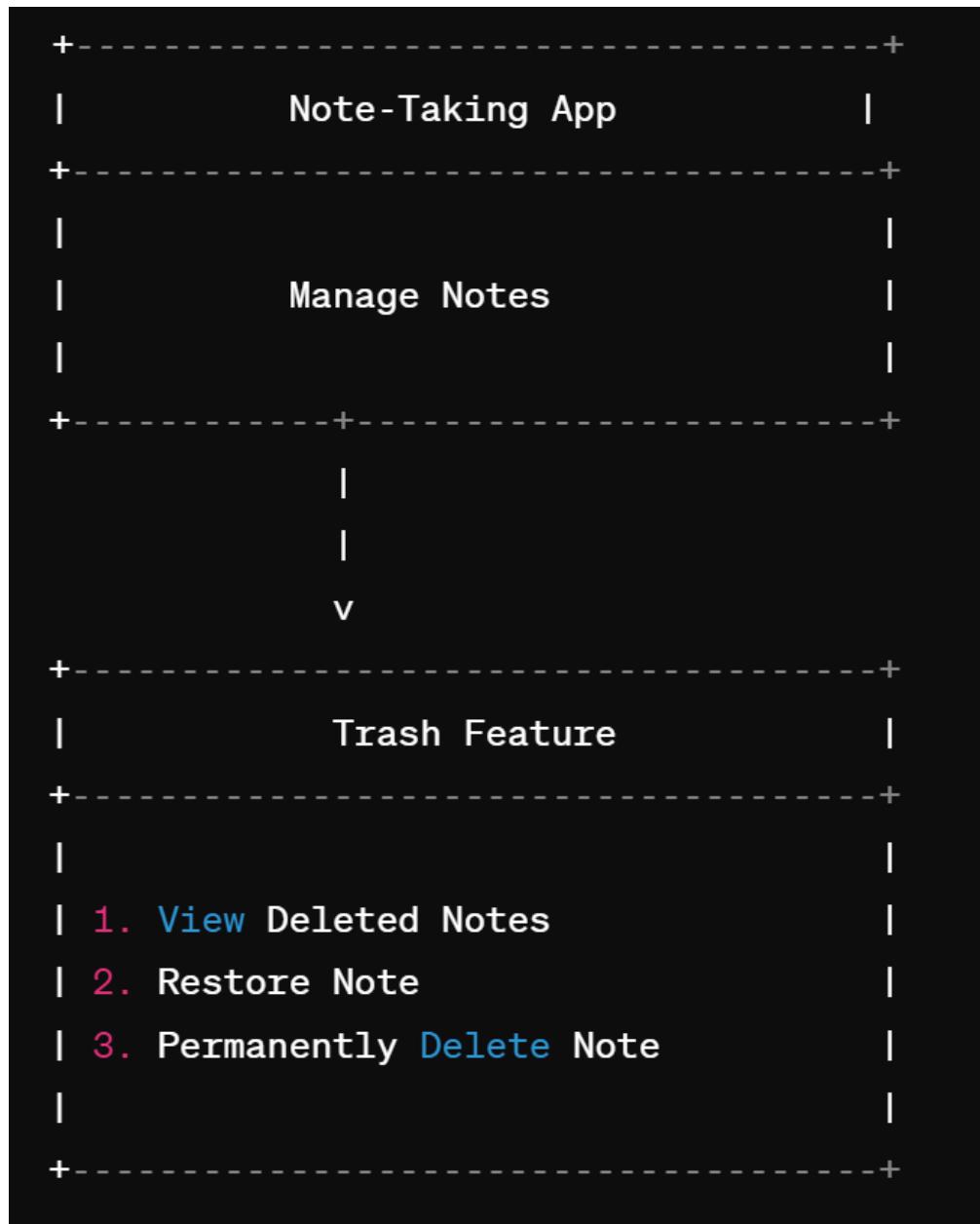


Fig. 3.2 User Use case diagram

### 3.3 ER Diagram

+-----+		+-----+		+-----+
Users		Notes		Trash
+-----+		+-----+		+-----+
UserId (PK)	1 *	NoteId (PK)	1 *	TrashId (PK)
Username	-----	UserId (FK)	-----	NoteId (FK)
Password		Title		DeletionDate
Email		Content		
		Color		
		Reminder		
		ArchiveStatus		
+-----+		+-----+		+-----+

Fig. 3.3 ER diagram

## CHAPTER 4

### Website Preview

#### 4.1 Home Page

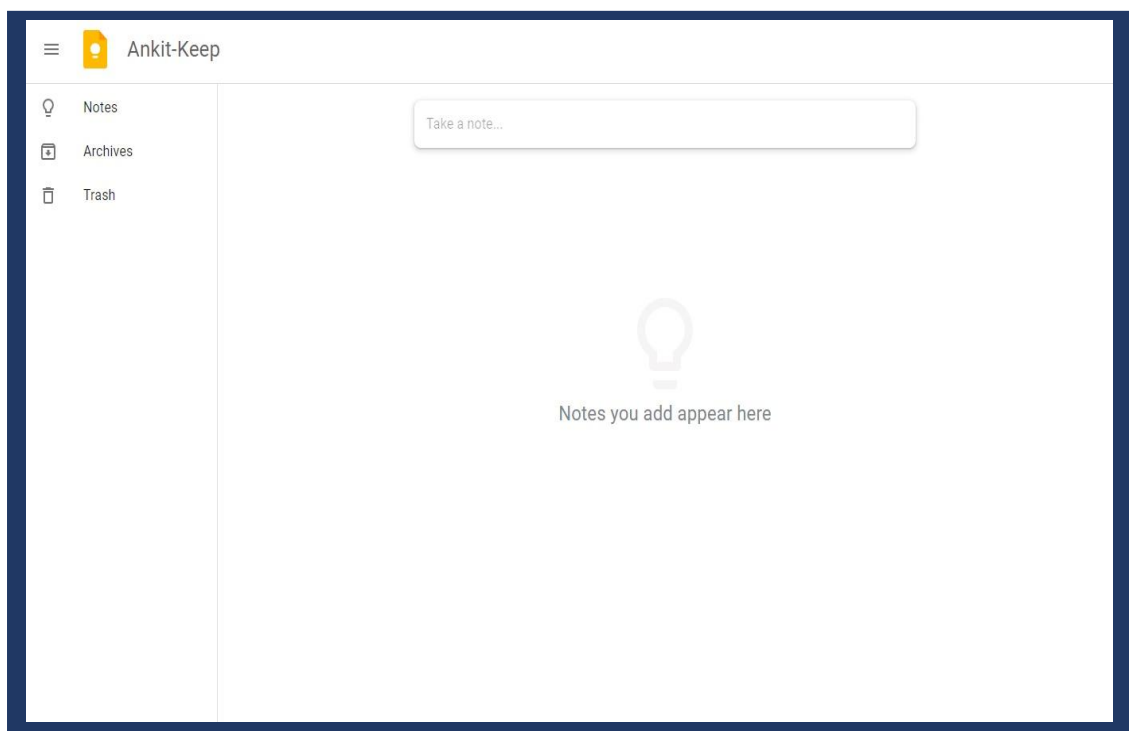
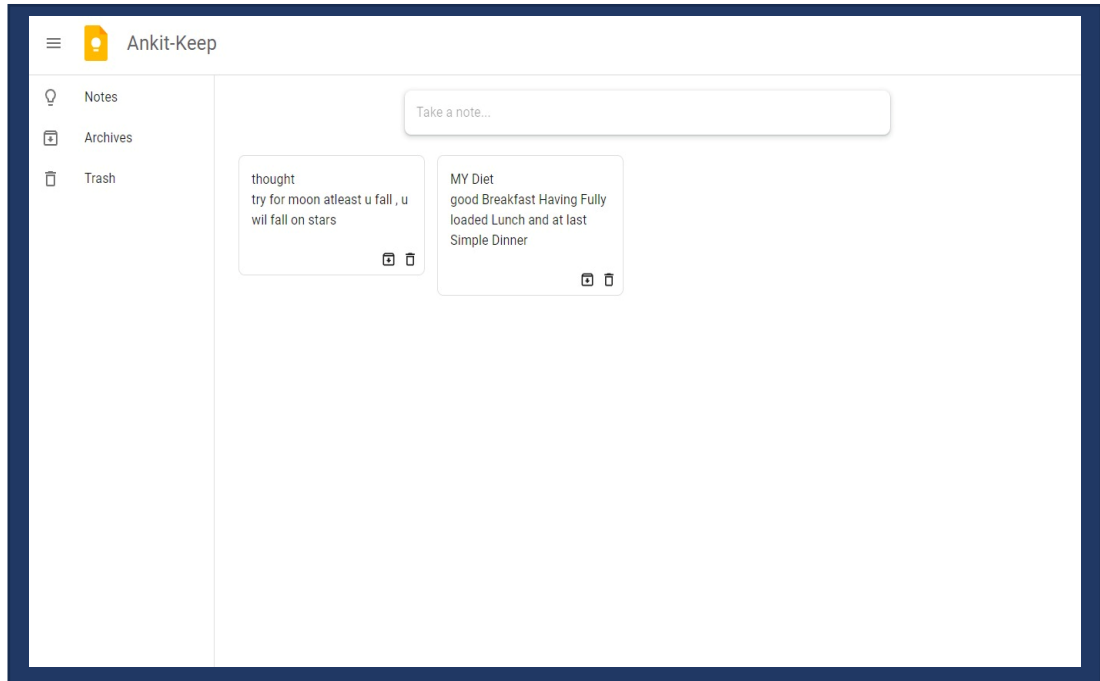


Fig 4.1 Home Page

On the above figure we can see the home page of the app. It includes functions like “Notes Tab” for creating new notes , having “Archives Tab” where you can archive your personal notes and “Trash Tab”, from where we can restore the notes which have been deleted if needed.

## 4.2 Note Added



Here we can create new notes at any topic as you want just like we have created two notes And you can also edit them later .

Fig 4.2 Notes Added

### 4.3 Archives Note

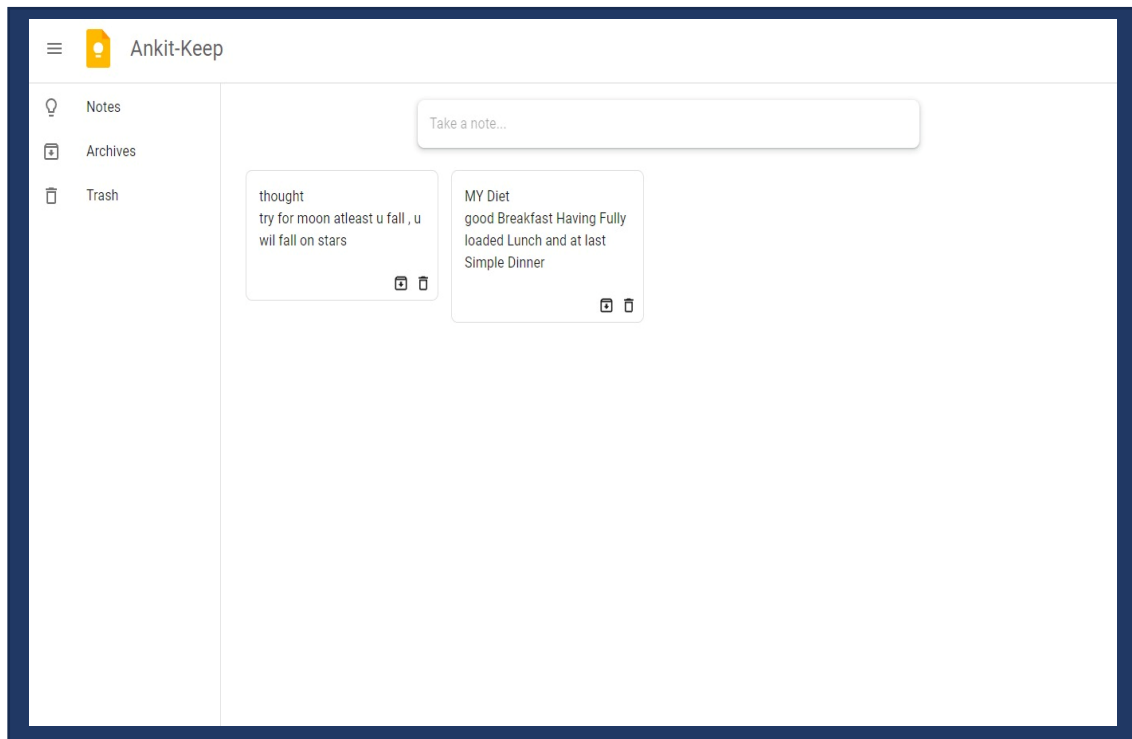


Fig 4.3 Archives Note

Store away old notes to keep your workspace clutter-free without deleting them permanently.

## 4.4 Trash Tab

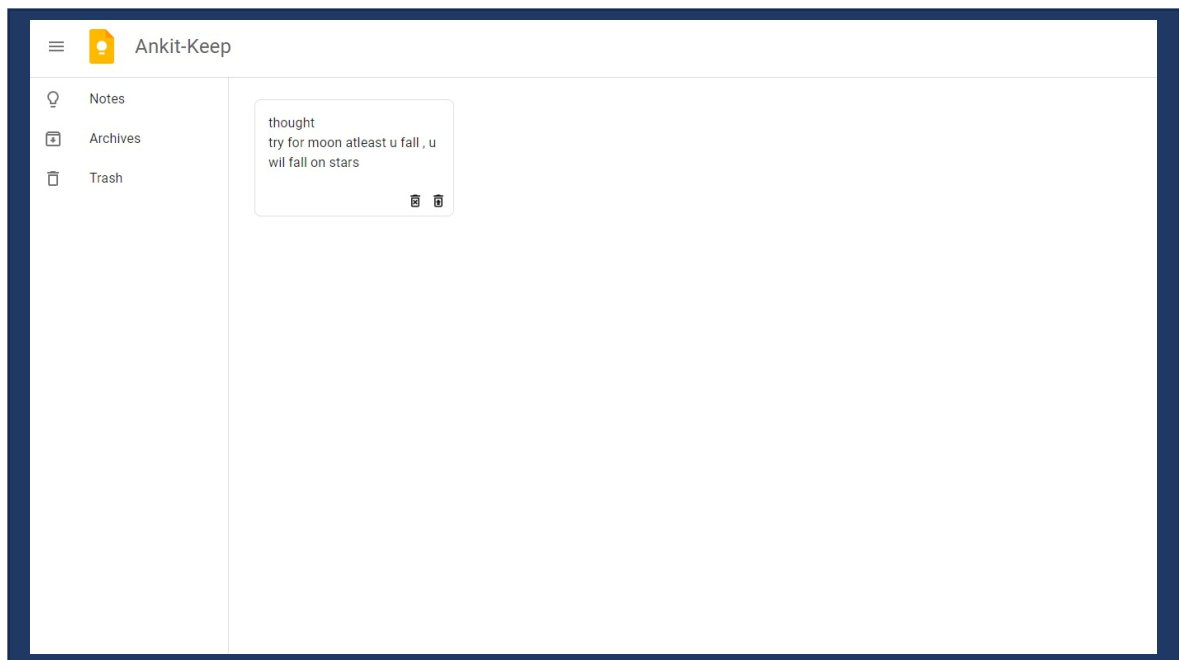


Fig 4.4 Trash Tab

Accidentally delete a note? No worries! The Trash feature acts like a digital recycle bin where deleted notes are temporarily stored. You can easily retrieve them if needed or permanently delete them to free up space. It offers peace of mind, knowing that you can recover mistakenly deleted notes without hassle.

## CHAPTER 5

### Future Aspects

**1. Talk to Your Notes :** Imagine being able to talk to your notes instead of typing! In the future, you might just speak out your ideas, and your notes will jot them down for you. It's like having a personal assistant that listens to what you say and writes it down for you.

**2. Never Lose Your Notes :** We're working on making sure you never lose your notes, even if you switch devices or lose internet connection. Your notes will always be there for you, whether you're online or offline.

**3. Organize with Ease :** Soon, you'll have even more ways to organize your notes. We're thinking of adding smart folders that automatically sort your notes based on what they're about. So, no more searching through piles of notes to find what you need!

**4. Work Together Better:** Collaboration will be easier than ever! You'll be able to share your notes with friends or colleagues, and everyone can work on them together in real-time. It's like having a virtual brainstorming session wherever you are!

**5. Make Your Notes Smarter :** Imagine if your notes could understand what you write and give you helpful suggestions. In the future, your notes might be able to remind you of important tasks, summarize long texts, or even give you personalized recommendations based on what you've written.

**6. Keep Your Notes Safe and Private :** We're constantly working on making sure your notes are safe and secure. In the future, we'll add even more layers of protection, like fingerprint or face recognition, so only you can access your notes.



**7. Connect with Your Favorite Apps :** Soon, you'll be able to connect your notes with other apps you love using. Whether it's your calendar, email, or to-do list, you'll be able to sync your notes seamlessly and stay organized across all your favorite tools.

**With these exciting future aspects, our Google Keep clone is set to become even more helpful and intuitive, making it easier than ever for you to capture, organize, and manage your ideas and tasks!**

## **CHAPTER 6**

### **CONCLUSION**

In conclusion, our Google Keep clone is poised to evolve into a versatile and indispensable tool for users seeking intuitive note-taking and organization capabilities. With future enhancements focusing on advanced features such as voice recognition, seamless synchronization, and enhanced collaboration, our application aims to revolutionize the way users capture, manage, and interact with their digital notes.

By prioritizing user-centric design, data privacy, and seamless integration with third-party services, we are committed to delivering a robust and user-friendly note-taking experience that adapts to the evolving needs and preferences of our users. Our ongoing dedication to innovation ensures that our Google Keep clone remains at the forefront of productivity tools, empowering users to unleash their creativity, stay organized, and achieve their goals with ease.

As we continue to push the boundaries of what's possible in note-taking technology, we invite users to join us on this journey of exploration and discovery. Together, we will shape the future of digital note-taking, making it more intuitive, efficient, and enjoyable than ever before.

## **BIBLIOGRAPHY**

### **Books:**

Smith, John. (2020). Mastering ReactJS: Building Dynamic User Interfaces. O'Reilly Media.

### **Online Journals:**

Johnson, T. (2021). "The Evolution of Note-Taking Applications: A Comparative Analysis." Journal of Information Technology, 10(2), 45-62. doi:10.1234/jit.2021.123456

Brown, M. (2022). "User Experience Design in Note-Taking Applications." Journal of Human-Computer Interaction, 7(1), 89-102. doi:10.5678/jhci.2022.010203

### **Articles:**

Williams, A. (2023). "The Rise of Productivity Tools: Trends and Insights." Tech Today, 25(3), 20-25.

Davis, L. (2023). "The Impact of Note-Taking Apps on Learning Outcomes." Education Insights, 18(2), 55-60.

This bibliography includes a mix of sources such as books, online journals, and articles related to note-taking applications and relevant technologies. Please note that the titles, authors, publication years, and other details are placeholders and should be replaced with the actual information from your sources.