NoteNest User Guide

**Version:** 1.0

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1. Introduction

Welcome to NoteNest! This user guide will help you get started with our easy-to-use note-taking app for Android. NoteNest is designed to help you quickly capture your thoughts, ideas, and important information so you never forget a thing.

2. Getting Started

When you open NoteNest, you'll see the **main screen**. This is where all your notes are displayed. At the top of the screen, you'll find the **search bar**. You can use this to quickly find specific notes by typing in keywords.

3. Managing Notes

Creating a Note

* On the main screen, tap the **'+'** icon located at the bottom right corner.
* Enter your note's **title** in the provided field.
* Type your note's **content** in the main text area.
* Once you're done, tap the **Save** button to store your new note.

Editing a Note

* From the main screen, tap on the note you wish to edit.
* The note will open, allowing you to modify its **title** or **content**.
* After making your changes, tap the **Save** button to update the note.

Deleting a Note

* Tap on the note you want to delete from the main screen.
* Once the note is open, tap the **trash can** icon, usually located at the top right corner of the screen.
* A confirmation prompt will appear. Tap **Delete** to confirm that you want to remove the note.

NoteNest Test Report

**Tester:** Atif Hussain  
**Date:** August 7, 2025

This report details the formal testing conducted on the NoteNest note-taking application. The objective of these tests was to verify the core functionalities of the application.

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| --- | --- | --- | --- | --- | --- |
| Test Case ID | Feature | Steps | Expected Result | Actual Result | Status |
| 1 | Create Note | Tap '+', fill fields, save. | Note appears in the list. | As expected. | PASS |
| 2 | Read & Update Note | Tap note, edit content, save. | Note is updated. | As expected. | PASS |
| 3 | Delete Note | Open note, tap delete icon. | Note is removed. | As expected. | PASS |
| 4 | Search Note | Type keyword in search bar. | List filters correctly. | As expected. | PASS |

NoteNest: A Modern Android Note-Taking App

Internship Project Submission by Atif Hussain

Project Objective

This project aimed to achieve the following goals:

* Develop a functional note-taking application for Android.
* Utilize modern Android development tools including Kotlin, Jetpack Compose, and Room Database.
* Implement core functionalities: Create, Read, Update, and Delete (CRUD) operations for notes.
* Integrate a search feature for efficient note retrieval.

Technology & Architecture

* **Kotlin:** Primary programming language.
* **Jetpack Compose:** Modern Android UI toolkit.
* **Room:** Persistence library for local data storage.
* **MVVM Architecture:** Model-View-ViewModel design pattern for clear separation of concerns.
* **Coroutines:** For asynchronous programming and efficient background operations.

Key Features

* **Effortless Note Creation:** Quickly add new notes with intuitive input fields.
* **Real-Time Search:** Instantly find notes by typing keywords in the search bar.
* **Categorization:** Organize notes into custom categories for better management.
* **Secure On-Device Storage:** All notes are stored securely on the device.

Challenges & Learnings

The primary challenge encountered during development was resolving **Gradle version conflicts** between Kotlin, Kotlin Symbol Processing (KSP), and the Compose Compiler.

**Solution:** Downgrading to a known stable configuration of these dependencies successfully resolved the conflicts.

This experience significantly enhanced my problem-solving skills and understanding of Android build systems.

Conclusion

The NoteNest project has been successfully completed, meeting all the defined requirements for a modern Android note-taking application.