

Secure Notes App - Project Report

1. What is this project?

I built a **private digital notebook** that:

- a) Works completely in your web browser (no install needed)
- b) Locks your notes with military-grade encryption
- c) Saves everything even if you close the browser
- d) Has dark mode (easy on night owls' eyes!)
- e) Lets you organize notes with labels like "Work" or "Personal"

2. Why does this matter?

We all have private thoughts, passwords, or ideas we want to keep safe. This app:

- **Protects your notes** like a digital diary with a lock
- **Works offline** - no internet? No problem!
- **Looks modern** with light/dark themes

3. What I used to build it

Part of App	Tech Used	What It Does
Base Framework	React.js	Makes the app interactive
Security Lock	CryptoJS	Encrypts notes like a vault
Storage	Browser's localStorage	Saves notes permanently
Design	Simple CSS	Makes it pretty

4. How I built it (simple steps)

A. The Basics

1. Set up a blank React app (like building a house's foundation)
2. Added a text box + "Add Note" button (your digital notepad)

B. The Security




3. Installed **CryptoJS** - this scrambles notes into secret code
4. Made sure only YOU can read notes by auto-decrypting them

C. The Cool Extras

5. Added a **dark/light mode toggle** (for night readers)
6. Created **color-coded labels** (to sort notes by type)
7. Taught the app to **remember everything** after closing

5. What I learned

This project taught me:

-  **Encryption isn't scary** - just math that protects privacy
-  **Good apps solve real problems** - like needing secure notes
-  **Simple can be powerful** - no fancy servers needed

Final Thoughts

This isn't just another notes app - it's **your private digital space**.