Secret Memo

Key Achievements for Week 5

1. React.js Project Setup

I've been able to create React.js project using them create-react-app. It offered a base structure in which to construct the user interface and in which to handle those components. I have also Installed key dependencies required for frontend functionality like: React-router-dom (For routing, navigation to different pages of the application) along with Axios (For HTTP requests to the backend API for note creation and retrieval, and Crypto-js (For encryption and decryption of sensitive data, like note text, from note data storage). Furthermore, I'm able to verify that I created a file structure with specific separation between components and assets (CSS and images).

2. Components

a. Header Component - I created a reusable navigation bar that includes links for home, creating new notes, and viewing previously created notes. I also Integrated basic CSS styling to ensure responsive behavior.

b. NoteForm Component – I designed a form for users to create new notes. The form includes fields for entering the note text, setting an optional password for protection, and submitting the data. I implemented axios to handle the sending of the data to the backend for storage.

c. NoteReader Component – I also developed the basic layout for viewing and decrypting notes. When a user provides a correct password, the encrypted note is decrypted and displayed. All the encryption and decryption are done using crypto-js.

d. I Used Bootstrap 5 for quick and responsive UI development and so far, it looks amazing.

e. User Authentication: From the Registration page, I added an email, name, password field and password confirmation field and the user's info are being sent to the backend API by using axios and I register the user. Users will provide their email and password for Login page with input validation for login.

f. Using Reacts built in state management (useState and useEffect) I was able to ensure form input, note retrieval and decryption are all dealt with at component level data so that our user input is dynamically managed as it goes into and from the form and to our backend API.

I can say that I have made good progress in setting up the frontend of the Self-Destructive Notes application in Week 5. Things are working towards this though the basic structure is in place and note creation and decryption components are functional. And I'm going to keep improving this in the following weeks.

My Github : https://github.com/Avinash-code77/comp5130