**\*\*Project Proposal: Journaling App - \*\***

**1. Tech Stack:**

**- Front-end: React**

**- Back-end: Node.js/Express.js**

**- Database: PostgreSQL**

**2. Focus:**

**The app will have a robust back-end, but more focus will go to building out the front end.**

**3. Platform:**

**The app will be a web-based application accessible through web browsers.**

**4. Project Goal:**

**The app aims to encourage beginners to develop a consistent journaling habit. By providing a user-friendly interface, streak tracking, and AI feedback on journal entries, the app aims to make journaling more accessible and enjoyable for users, ultimately helping them improve their writing skills and foster personal growth through reflective writing.**

**5. Target Users:**

**The app's target users are beginners who are new to journaling and seek a supportive and motivating platform to develop a journaling habit. The app is designed to be accessible and appealing to users of various demographics and backgrounds.**

**6. Data Usage:**

**The app will primarily utilize user-generated data, including journal entries and user preferences. Additionally, the app will integrate with external APIs to incorporate sentiment analysis for providing emotional insights on journal entries. It will also integrate an additional external API to provide the AI feedback to users’ journal entries.**

**7. Approach:**

**a. Database Schema: The database schema will include tables such as Users, Journal Entries, Preferences, User Streaks, and Feedback Responses. Relationships will be established through foreign key associations.**

**b. API Challenges: If using external APIs, potential challenges may include data retrieval limitations, rate limiting, and handling API response inconsistencies. Error handling and data validation will be crucial.**

**c. Security Measures: User authentication and authorization will be implemented to secure user accounts and protect sensitive information.**

**d. Functionality: The app will enable users to register, log in, submit journal entries, track streaks, and receive AI-generated feedback on their writing. Additional features may include user customization options, such as language preference and specifying journaling goals.**

**e. User Flow: Users will sign up, log in, and be directed to their dashboard where they can submit journal entries. They can track their streaks, view past entries, and receive AI feedback on their entries.**

**f. Stretch Goals: Potential stretch goals include the ability to share entries, and receiving a special feedback response that reviews an entire week’s journal entries and gives feedback about trends and themes that were present in that week’s entries.**

**By following this proposed plan, the app aims to provide a user-friendly journaling platform with AI feedback, promoting a consistent writing habit and personal growth.**