Design Specifications

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Packages

- React Native (Expo)

- AWS Services (API Gateway, Lambda, Cognito)

- Cloudflare D1

- OpenAI API

Dependencies

- **Front-End (React Native):**

  - Node.js and npm
  - Expo Go (for testing and deployment)
  - React Native Navigation Components
  - AsyncStorage (local database)

- **Back-End (AWS + Cloudflare):**

  - AWS Lambda: Handles API logic and chatbot requests
  - API Gateway: Exposes REST endpoints to the app
  - Amazon Cognito: Handles user authentication and the creation, updation and deletion of accounts
  - Cloudflare D1: Stores user data and tests events

- **AI Layer:**

  - OpenAI GPT-based chatbot
  - Custom prompts for promoting mental health and wellness, and other resources

- **Database Management:**

  - Cloudflare D1 Console
  - SQL schema for users, quiz scores, and resource data

Libraries

- React Native Reanimated

- React Navigation

- OpenAI Node.js Library