Bookkeeping Assistant - Speech Recognition and ChatGPT

# Objective:

The objective of this project is to develop a simple demo app that leverages React Native, Speech Recognition API, ChatGPT, and local data storage to help users with bookkeeping by allowing them to speak about their purchases, classifying them with ChatGPT, and saving them to local storage.

# Target Audience:

The target audience for this app is anyone who wants a simple and efficient way to keep track of their purchases and expenses.

# Functionality:

The app will have the following functionality:

1. Speech Recognition: The app will allow users to press a button and speak about their purchases, which will be captured using the Speech Recognition API and converted to text.
2. Classification with ChatGPT: The app will pass the transcribed text to ChatGPT for classification, which will return a message indicating the category of the purchase (e.g. food, clothing, electronics).
3. Local Data Storage: The app will convert the classification message to an object and save it to local data storage for bookkeeping purposes, including the purchase category, description, and date.

# Technical Stack:

The following technologies will be used in the development of this app:

1. React Native: A cross-platform framework for developing native mobile apps.
2. Speech Recognition API: A library for capturing spoken input and converting it to text.
3. ChatGPT: An API for natural language processing and machine learning.
4. Local Data Storage: A library for storing data locally on the user's device.

# Implementation Plan:

The app will be developed in the following phases:

1. Phase 1: Set up the development environment and create the basic UI components, including a button to trigger the Speech Recognition API and a message display area.
2. Phase 2: Integrate the Speech Recognition API and capture spoken input from the user, converting it to text.
3. Phase 3: Integrate ChatGPT and pass the transcribed text to the API for classification, receiving a message indicating the category of the purchase.
4. Phase 4: Convert the classification message to an object and save it to local data storage, including the purchase category, description, and date.
5. Phase 5: Test and refine the app, fixing any bugs and improving the user experience.

Conclusion**:**

This demo app will provide users with a simple and efficient way to keep track of their purchases and expenses by leveraging the power of Speech Recognition and ChatGPT. By following the implementation plan outlined above, we can create a functional and user-friendly app that meets the needs of our target audience.