#Name: EmailEase - Email Drafting Assistant
#Github Link: https://github.com/ChowdhuryYeamin/emailEase/tree/main/email_drafter_swift

Introduction

EmailEase is a simple iOS application designed to assist users in drafting professional emails. This app leverages the power of OpenAI's GPT-3.5 language model, providing a user-friendly interface to generate email drafts on the fly.

The app takes two key inputs from the user: an outline of the email content and the type of the email. The email type helps set the context for the language model to generate a corresponding draft, enhancing the relevancy and formality of the output.

Features

1. **Email Type Picker**: The app provides a dropdown menu for users to select the type of email they want to write. The options include 'Business', 'Personal', and 'Support' emails.

2. **Outline Input Field**: The user can enter a brief outline of the email content they want to generate.

3. **Email Generation Button**: Once the outline and email type are set, the user can click on the 'Generate Email' button. This button triggers the call to the GPT-3.5 model with a crafted prompt to generate the draft email.

4. **Generated Email View**: The app displays the generated email in a separate view, split into two parts: 'Subject' and 'Body'. Both can be viewed, and their contents copied to the clipboard by long-pressing on them.

Design & Implementation

The app's design follows the Model-View-ViewModel (MVVM) pattern, separating the UI and business logic to enhance maintainability and testability. The app's files are divided based on their roles, making the structure intuitive and easy to navigate.

1. **ContentView**: It's the main view that brings together all the other views.

2. **TitleView**: This displays the title of the app.

3. **InputFieldView**: This view takes care of the input field where the user enters the outline for the email content.

4. **EmailTypePickerView**: This view handles the dropdown menu for selecting the type of the email.

5. **GenerateButtonView**: This view is responsible for the button that triggers the email generation. When pressed, it prompts the GPT-3.5 model with a carefully crafted prompt that includes the user's inputs and persona of an email writer.

6. **GeneratedEmailView**: This view displays the generated email. It includes two separate subviews - EmailSubjectView and EmailBodyView.

Future Development

Further development of the EmailEase application could include:

- A search bar in the email type picker for ease of selection.
- Enhancing the email generation process with subject and body generated and stored separately.
- The ability to save and retrieve past generated emails.
- The possibility to send the generated email directly from the app, given the user's consent and proper email account configuration.

Conclusion

EmailEase is a beneficial tool for anyone who regularly drafts professional emails. The application is designed to be simple, intuitive, and efficient in generating high-quality email drafts with the help of OpenAI's GPT-3.5 language model. This project serves as a testament to the potential of AI in assisting with daily tasks and improving productivity.