The Fix App

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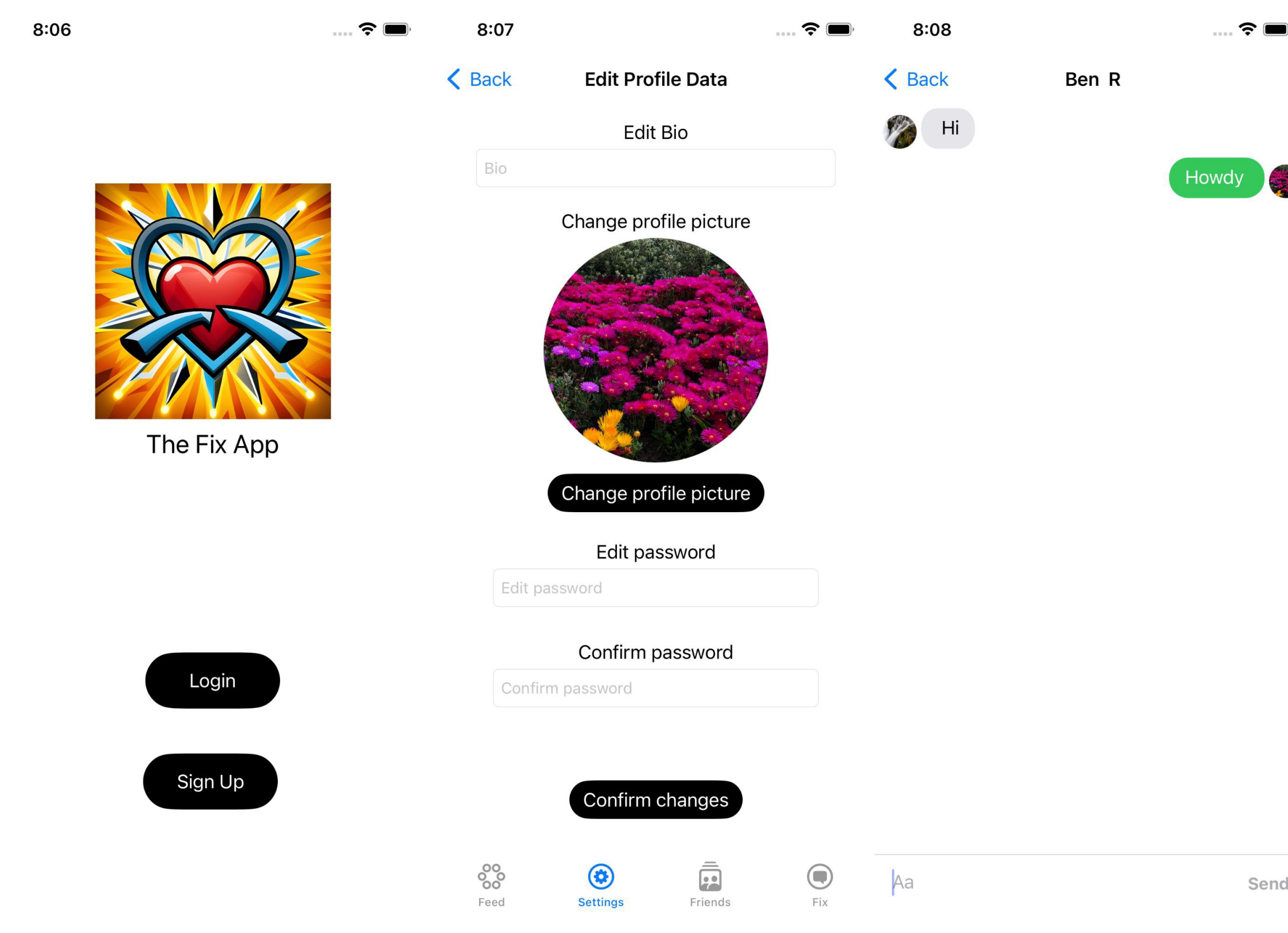**CS407 Fall 2023 - Group Project**

Introduction

Our app is a revolutionary blind dating platform, designed to counter the superficiality of online dating. Targeted at singles aged 18-40, it empowers friends to arrange blind dates, fostering genuine connections. Users grant permission for friends to match them anonymously, leading to an engaging chat with the match to plan a real meet-up. This approach aims to restore authenticity in dating, moving away from the toxic, artificial norms prevalent in traditional online dating scenarios.

Design: Key Features

- Seamless user signup form

- Multi-language support

- Easy user login and logout features

- Online data storage and real-time database

- In-App real time messaging between users

- Matching system in place between user swipes

- Easy user-frienly navigation between storyboards

- Safe and secure account deletion

Design: User Interface and Technology Stack

The "Fix" app combines a tap-to-confirm system, and push notifications within a user-friendly interface, emphasizing safety and social matchmaking for an innovative blind dating experience. It leverages technology to enhance user trust and engagement in the dating process.

Development Team

Lance / Team Leader

Devin / Lead Programmer / Database Manager

Ben / Team Player / Collaborative Quality Assurance Analyst

Brian / Designer / Strategic Communications Specialist

Challenges and Solutions

The journey of developing the "Fix" App has been a blend of challenges and learning opportunities. We have learned to adapt our strategies and timelines to the realities of software development.

User Feedback / Future Work

Users love our innovative app; we're expanding to Android and adding multilingual support, broadening our reach and enhancing the user experience.

Useful Links

- Github repo
- Demo video of your app

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App Development: Challenges and Solutions Overview

Challenges Encountered:

1.**Firebase Integration:** We faced difficulties in efficiently integrating Firebase into our application. This integration was crucial for managing user data and interactions within the app.

2.**Friends Search Page Development:** Implementing a functional friends search page presented a significant challenge. The page was intended to enable users to search and add other users as friends. However, we encountered a bug that we were unable to resolve in time.

3.**User Login and Management:** Developing a seamless login process and managing user deletion were complex tasks. We leveraged an "Extensions" file to streamline the usage of Firebase, creating a Database Manager. This approach also simplified our codebase by introducing a Users object to manage user data and a user object for easy access to individual user information.

4.**Data Structure for Messages:** Determining the optimal data structure for storing messages in the database was a challenging aspect. This was crucial for efficient data retrieval and management within the app.

5.**Asynchronous Function Calls:** Handling asynchronous function calls was a complex task, especially in ensuring the smooth operation and user experience of the app.

6.**Matching System Implementation:** Developing a matching system where users could select a friend to match with someone else was reliant on the successful functioning of the friends list, which was itself a challenge.

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App Development: Challenges and Solutions Overview

Features Omitted from Original Design:

Match, Tap, and GPS Feature: Our initial design included innovative features such as match, tap, and GPS functionality. However, due to underestimating the complexity involved in developing a dating app, we were unable to implement these features. The foundational elements of the app required more time and resources than anticipated, leading to the decision to omit these advanced features from the current version of the app.
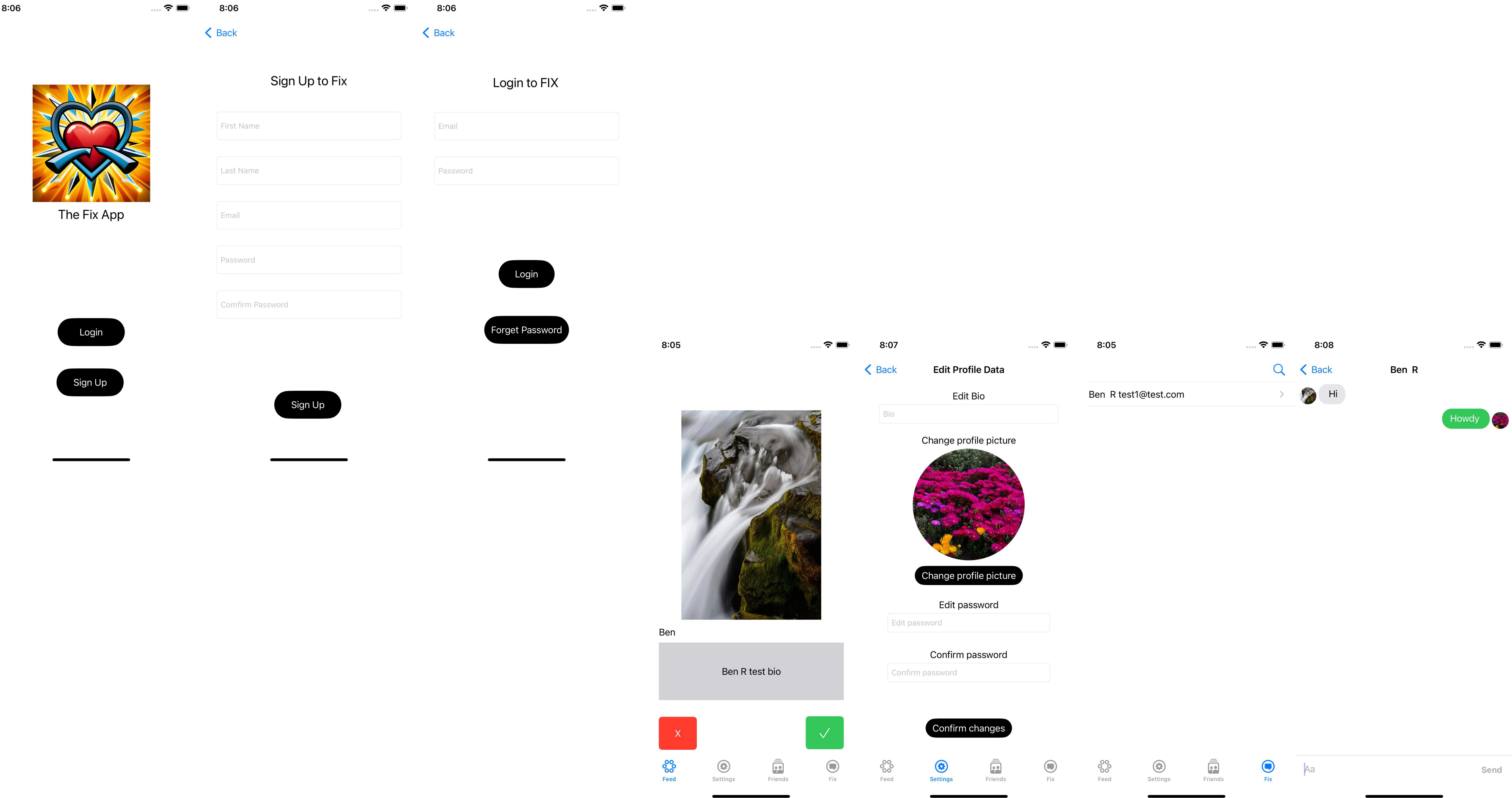
Conclusion:

The development journey of our app was marked by various challenges, from integrating complex functionalities like Firebase and managing asynchronous operations to designing a user-friendly interface for friends search and matching. While we successfully navigated through many of these challenges, some features from our original wireframes had to be left out due to time constraints and the intricate nature of their implementation. Our experience has been a valuable learning opportunity, laying a stronger foundation for future enhancements and feature integrations.

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Design: User Interface

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The Fix App

Login

Sign Up

8:06

Back

Sign Up to Fix

First Name

Last Name

Email

Password

Comfirm Password

Sign Up

8:06

Back

Login to FIX

Email

Password

Login

Forget Password

8:05

Back

Ben

Ben R test bio

X ✓

Feed Settings Friends Fix

8:07

Back Edit Profile Data

Edit Bio

Bio

Change profile picture

Change profile picture

Edit password

Edit password

Confirm password

Confirm password

Confirm changes

Feed Settings Friends Fix

8:05

Back

Ben R test1@test.com >

Feed Settings Friends Fix

8:08

Ben R

Hi

Howdy

Aa Send

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Technology Stack