CSUEBConnect Design Documentation

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## Concept Summary

A simple study-pal connection app allowing students to find other students with the same majors. Our app features a tinder swipe like feature for ease of saving and deleting matched profiles while also having a chat messaging system allowing students to communicate with one another.

## Audience/Customer

CSUEBConnect was developed by students and was made for the students, our target audience. We aim to develop a simple connection app giving fellow students the connection they desire. Whether it be using the app for homework help, finding study buddies, or even just looking for new friends, CSUEBConnect has you connected…

## Background

In order for a student to get started with our app, they must first register an account by creating a username and password. Afterwards they will be directed to the main page. There the user will have further abilities to edit their profile, which is the step required to find matches. After editing profile, they will automatically be directed to the matches page. Here students can swipe right or left on the profiles they were matched up and even have a chat with their newly matched partners.

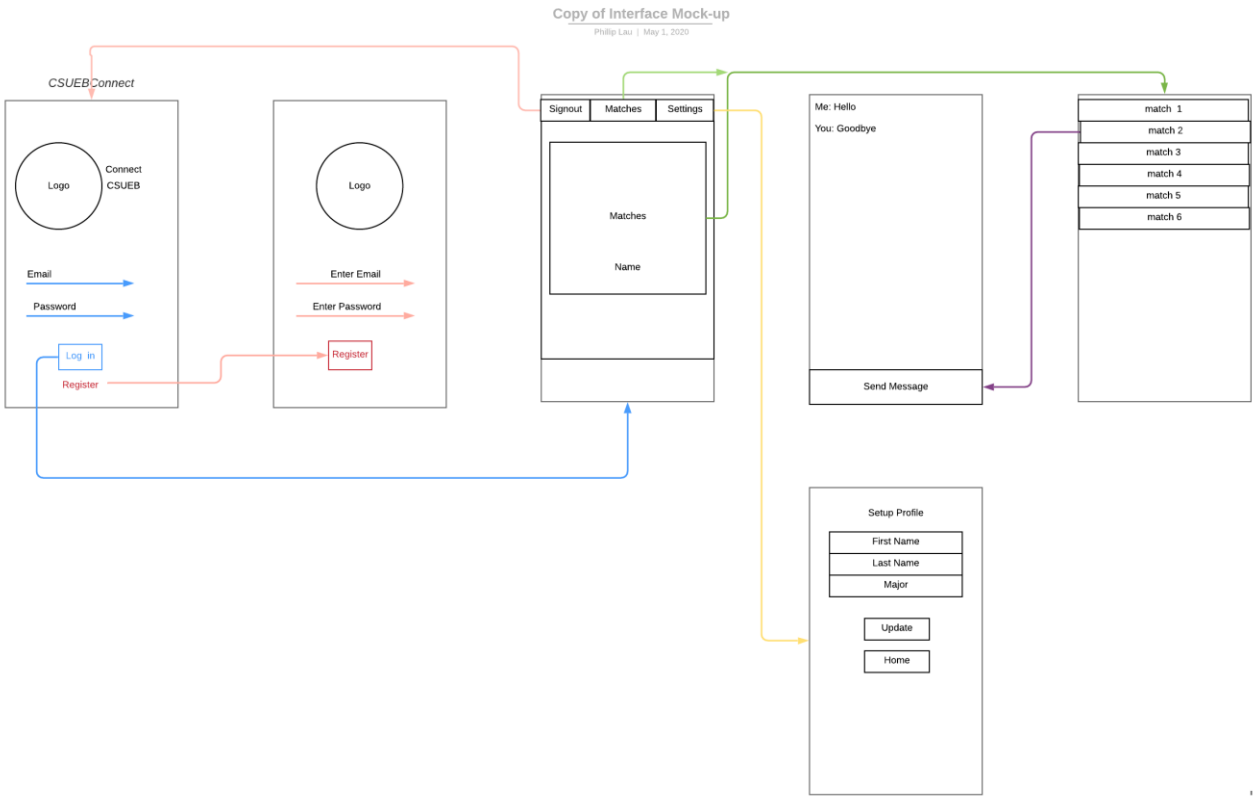
What you need to get started:

- A memorable username and password. Real emails allow for forgotten password retrieval.
- Students who are familiar with college
- A Major
- A desire for connection and social interactions
- Basic knowledge of apps
- A mobile phone

## Application Cost and Projected Success

- Cost to produce app: $0
- Free for anyone to use

Interface Mockups

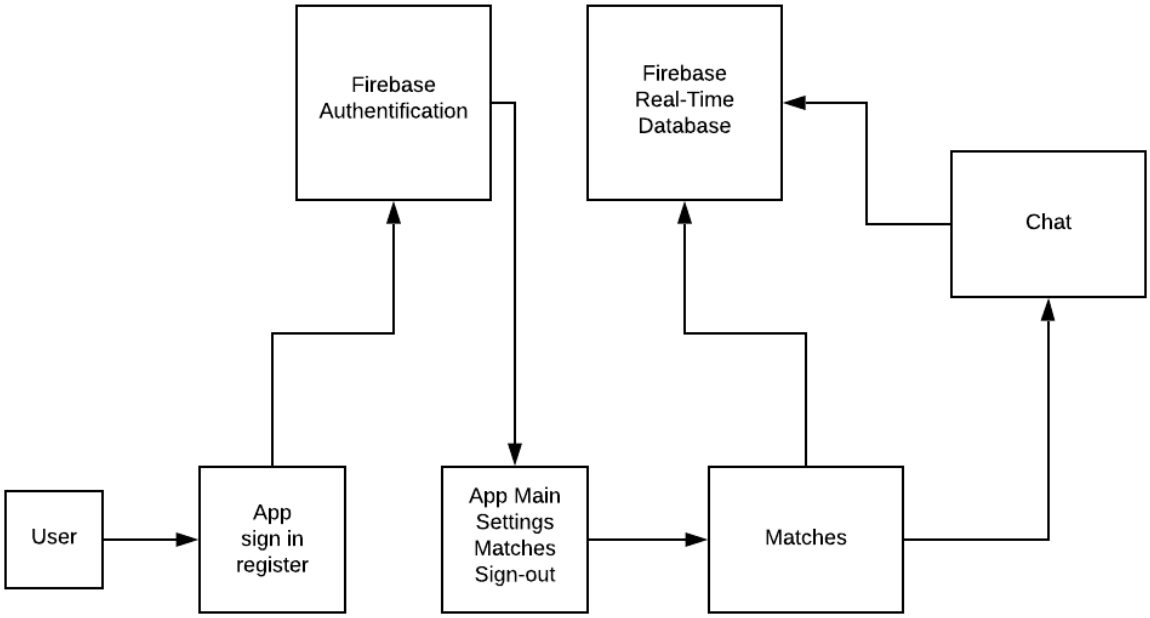



[Click here for a closer look]

UML Class Diagram

[Click here for a closer look]

Case Diagram




Related Work

Our app draws inspiration from Tinder and WhatsApp with our swipe like feature for profile matches and chat messaging. When designing our app, we kept the user interface to a minimum and got rid of a lot of un-necessary pages that might confuse the user. The goal was to design a simple to use matching app that allows users to instantly send a message to any matched profile.

## Frameworks/Services/Cloud/Backends

-Android SDK

-Firebase Authentication

-Firebase RealtimeDatabase

Testing

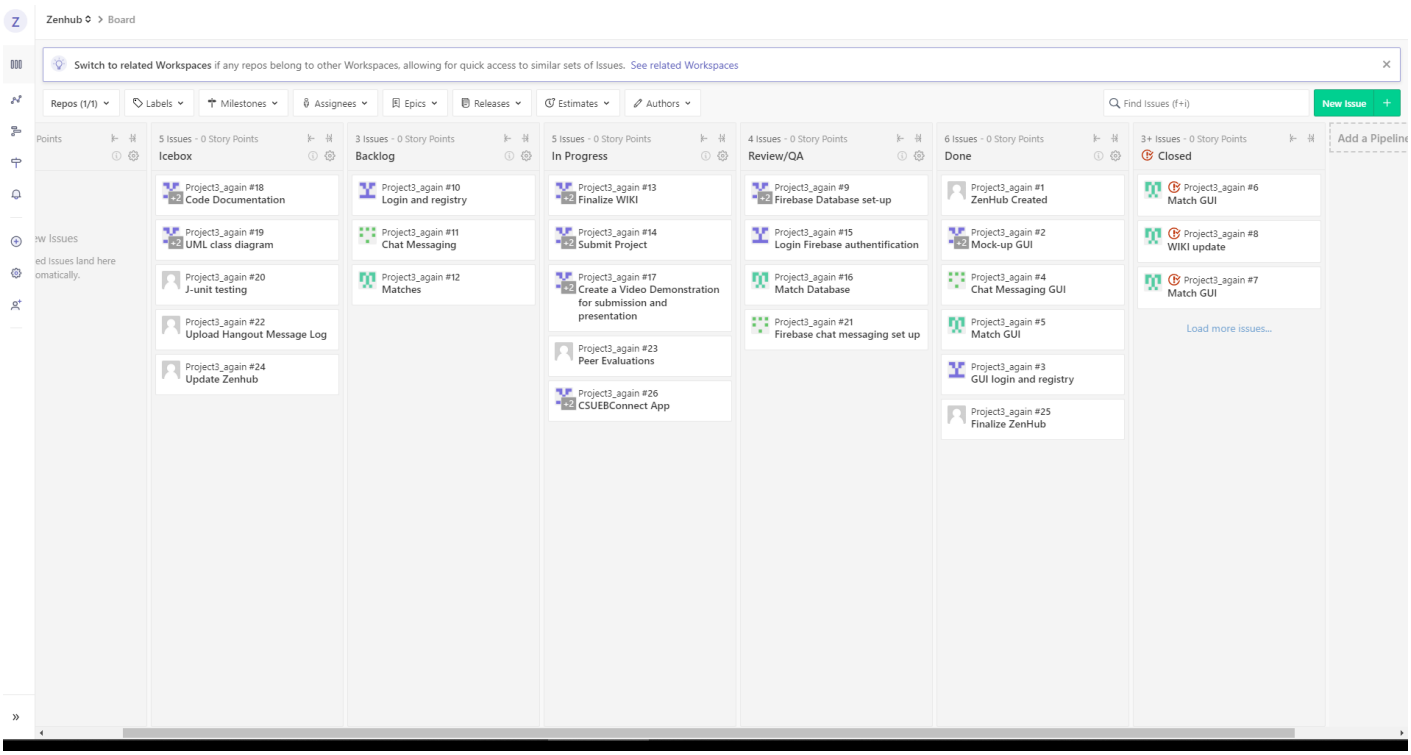
J-unit testing on classes

Test driver

Database Test

Mobile Phone GUI interface testing

Schedule



Dependencies

Build Gradle

```
implementation fileTree(dir: 'libs', include: ['*.jar'])
implementation 'com.google.android.material:material:1.1.0'
implementation 'androidx.appcompat:appcompat:1.1.0'
implementation 'androidx.constraintlayout:constraintlayout:1.1.3'
testImplementation 'junit:junit:4.13'
androidTestImplementation 'androidx.test.ext:junit:1.1.1'
androidTestImplementation 'androidx.test.espresso:espresso-core:3.2.0'
implementation 'com.google.firebase:firebase-database:19.3.0'
implementation 'com.google.firebase:firebase-analytics:17.4.0'
implementation 'com.google.firebase:firebase-auth:19.3.1'
implementation 'com.google.firebase:firebase-storage:19.1.1'
implementation 'de.hdodenhof:circleimageview:3.1.0'
implementation "androidx.recyclerview:recyclerview:1.1.0"
implementation 'com.lorentzos.swipecards:library:1.0.9'
implementation "androidx.cardview:cardview:1.0.0"
implementation 'com.github.bumptech.glide:glide:4.11.0'
implementation 'com.google.android.material:material:1.1.0'
```