



# Apollo

## Music Dating and Social Network Application



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CSC 431 | Introduction to Software Engineering





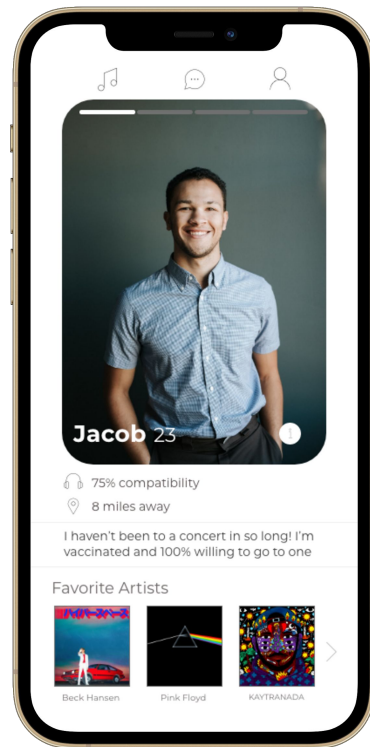
# Review of the Project

# Project Review

## Dating and Social Networking App for Music Junkies

Apollo connects you to people in your area who have similar music taste and concert venue preferences as you. Once a match is made between two users, our algorithm will recommend concerts in your area that you and your match can check out.

People who place a high value on music know that taste can reveal a lot about someone's personality and their interests, so find your musical match with Apollo!





# System Analysis



# System Overview

The system consists of **three** main parts.

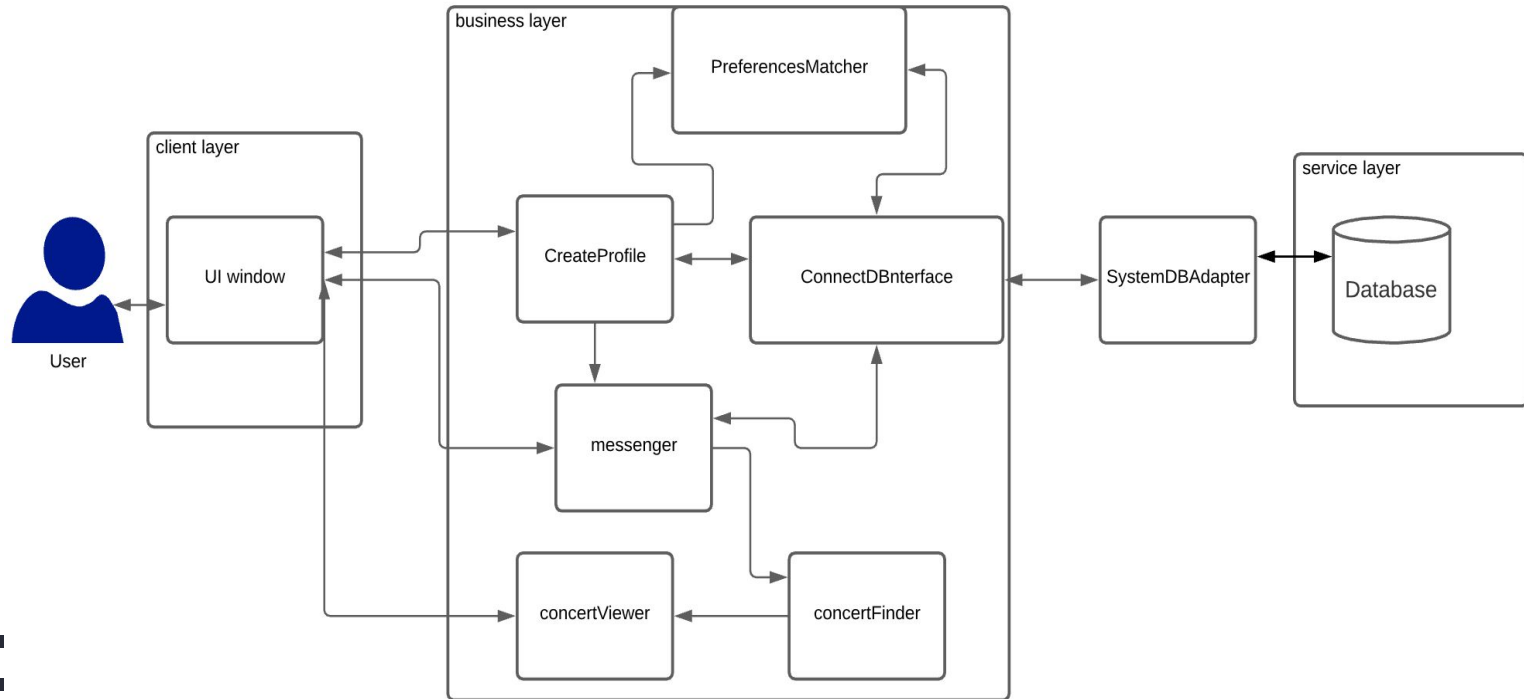
1. **UI layer**, which is the UI interface the user interacts with.
2. **Business logic layer**, which has components for creating user profiles, matching preferences, and messaging between users. This layer uses the **Adaptor class** to convert information from the user Profiles to JSON data and vice versa.
3. **Service layer**, which includes Firebase Realtime Database; this database provides functions such as registration, login, and authentication; the database also stores user information.

client layer

busniess layer

service layer

# System Diagram



# Actors Identification



New Users



Registered Users



Platform Server

# Architectural Style

UI layer

business logic layer

service layer



# Design Patterns

- **Adaptor Design pattern**
- Communicate between the business logic layer and service layer
- JSON data from database  $\leftrightarrow$  Profile class in the business logic layer

# Frameworks

- **Flutter:** UI framework
  - Well-documented
  - Previous experience
- **Firebase:** Backend-as-a-Service
  - Authentication
  - Database Storage
  - Security
- **ExpressJS:**
  - NodeJS
  - Previous experience

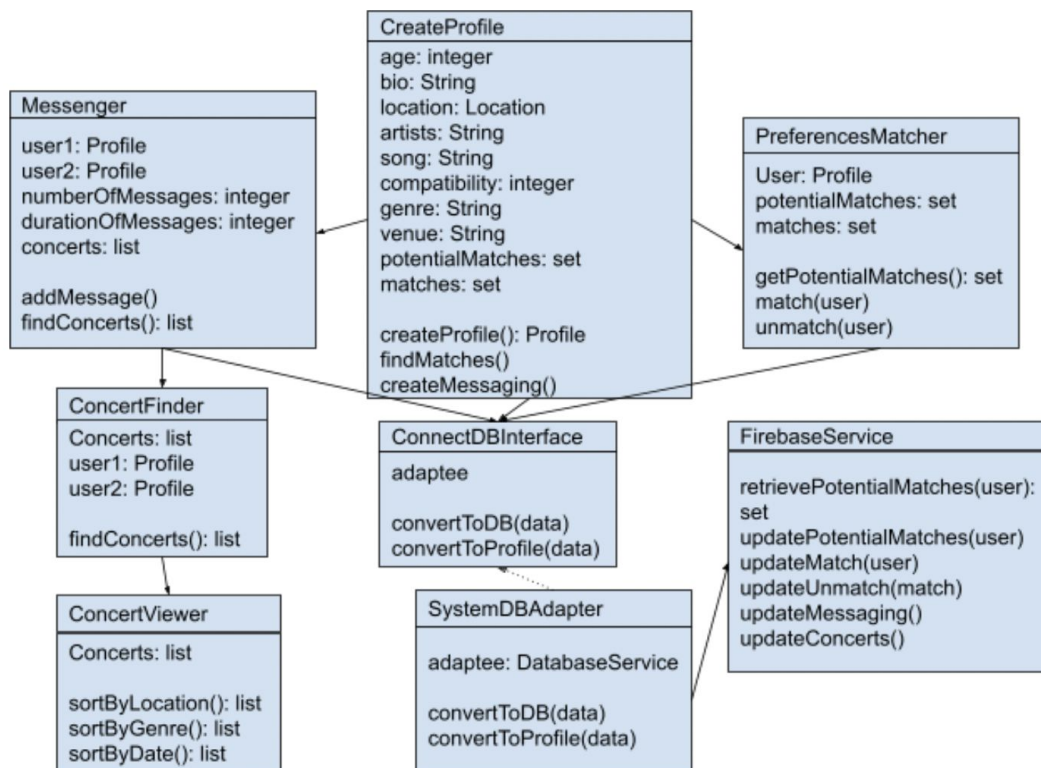


express



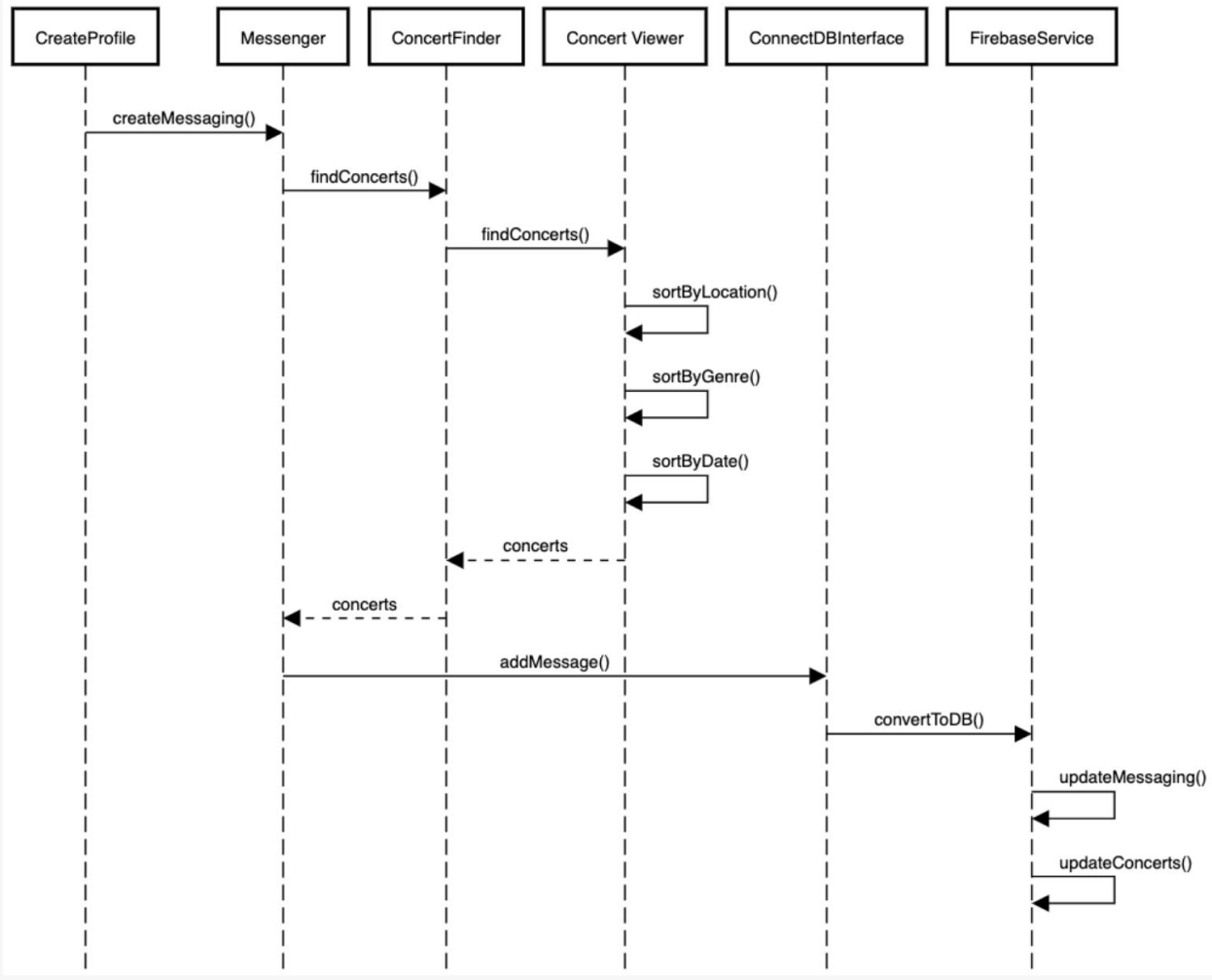
# Structural Design

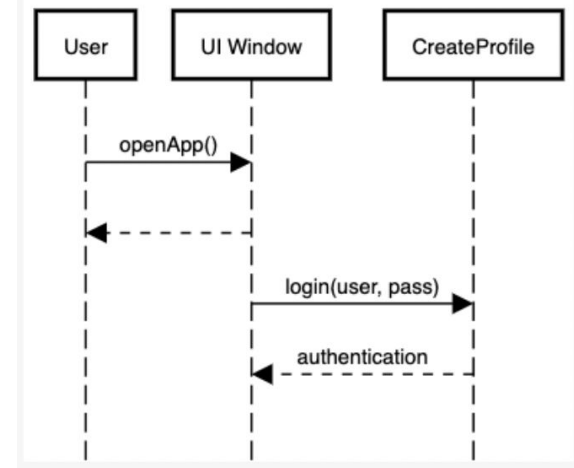
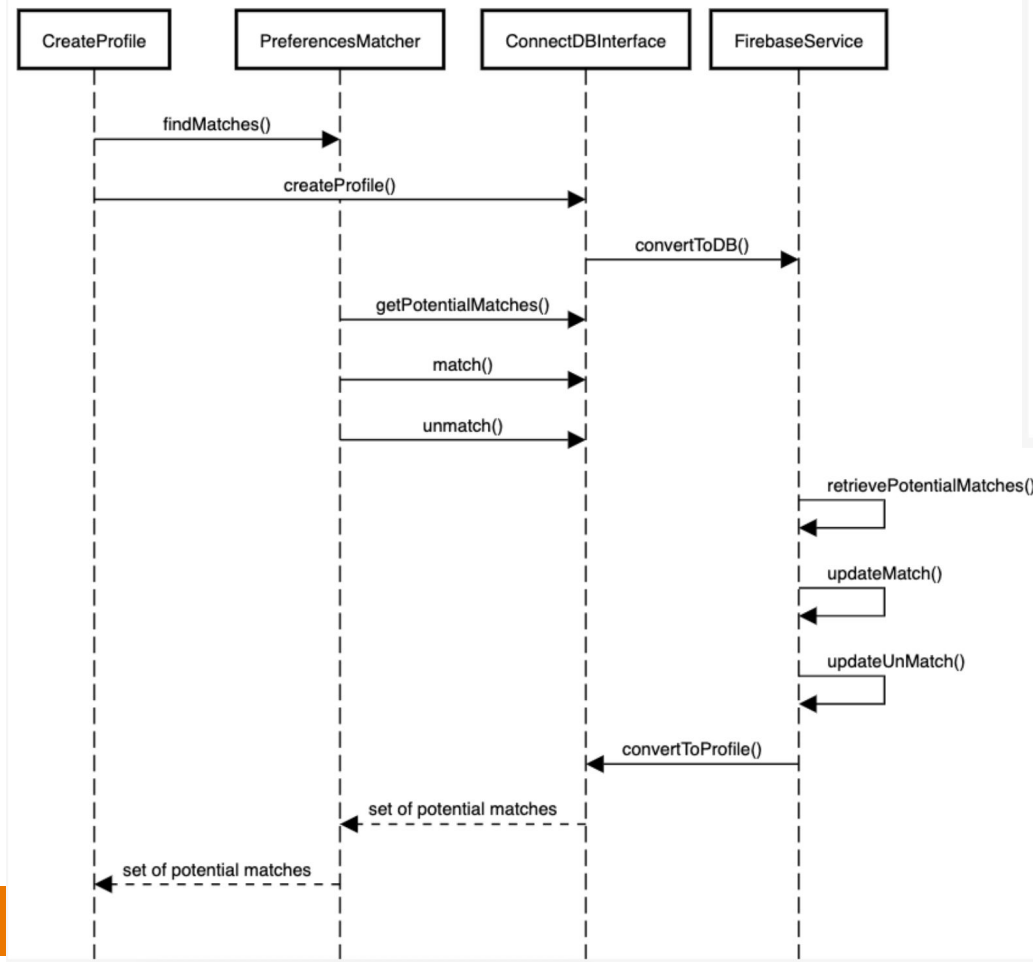
# Class Diagram



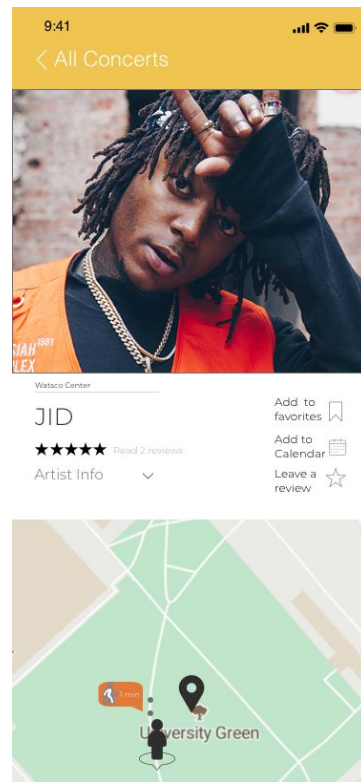
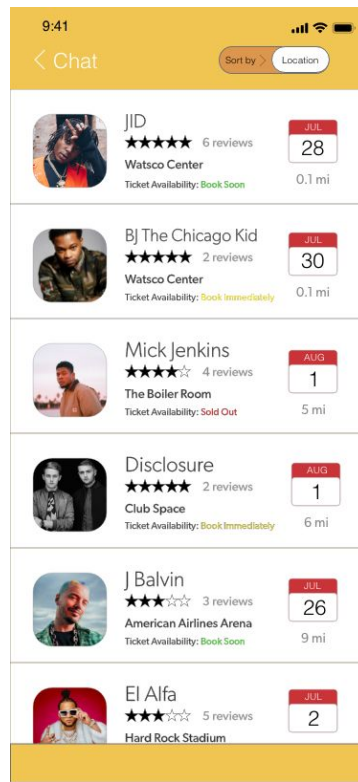
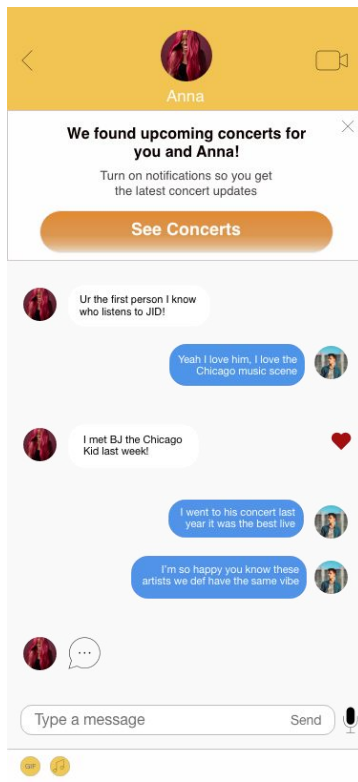
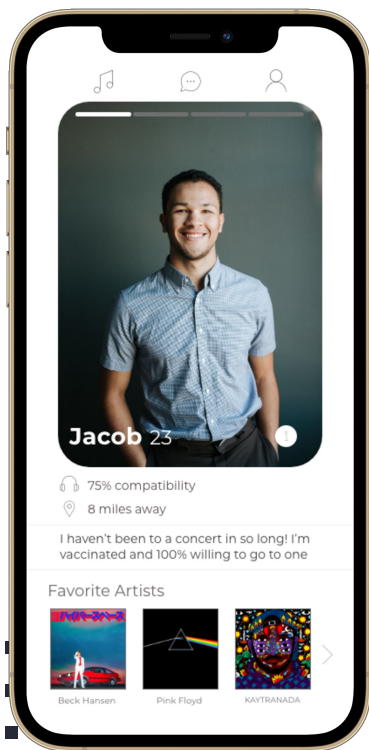


# Functional Design





# Project Mockup





# Project Planning + Github Link

1 In Progress + ...

- Final slides  
#3 opened by skamath2000  
presentations  
Final Slides

0 Needs Review + ...

5 Complete + ...

- Design Draft 2  
#2 opened by skamath2000  
design draft 2  
Design Doc
- Design Draft 1  
#1 opened by skamath2000  
design draft 1  
Design Doc
- Requirements Doc Draft 1  
#4 opened by skamath2000  
srs draft 1  
SRS
- SRS Draft 2  
#5 opened by skamath2000  
srs draft 2

main 1 branch 0 tags

Go to file Add file Code

skamath2000 added in the updated docs 1499498 9 minutes ago 2 commits

presentations	added in the updated docs	9 minutes ago
proposal	added in the updated docs	9 minutes ago
sas	added in the updated docs	9 minutes ago
srs	added in the updated docs	9 minutes ago
.gitignore	Initial commit	14 days ago
README.md	Initial commit	14 days ago

README.md

## apollo\_CSC431

Apollo: A Musical Social Network and Dating App

Switch branches or tags

[https://github.com/skamath2000/apollo\\_CSC431](https://github.com/skamath2000/apollo_CSC431)



# Questions?

