COR

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What is COR?

A smarter, more modern way to stay healthy and train with your community.

COR is a mobile app that incorporates your **personal health statistic data** and gives users **customized health and training recommendations.**

COR encourages **collaboration within your community** by offering events and messaging platforms so like-minded people can **meet up and enjoy wellness activities together.**

FITNESS APP

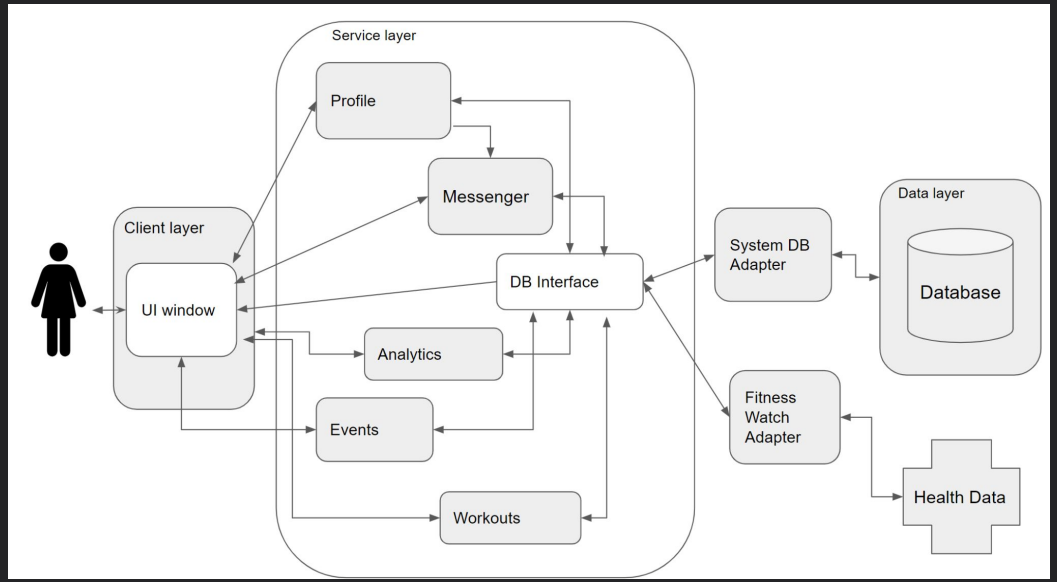
System Overview

We will be using a 3 Tiered Architecture to implement COR.

This will be comprised of a **client layer**, **service layer**, and a **database layer**.

The architecture allows the user to interact with the system while allowing for data storage on the backend.

System Diagram



System Components

1. **Client layer**: the user interface; creating events, messaging other users, and taking on your next workout begins here.

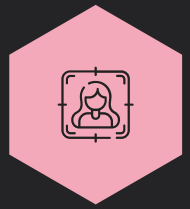
2. **Service layer**: is the functionality of app itself; the heavy lifting done behind the buttons built largely using Node.js to send and pull everything necessary from the databases to the client.

3. **Data layer**: the database that stores everything necessary about our user's such as personal health data, created events, etc.

Actors

New Users

Users who have not yet created a COR account.

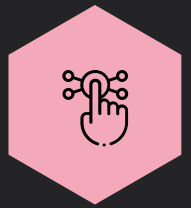


Platform Server

Firebase includes a built-in cloud database and authentication for housing data.

Registered Users

Users that have an existing COR account.



Fitness Watch Server

The user's fitness watch will be used to draw health data and statistics.

Design Patterns

Adapters:

An adapter class will be used to connect the service and database layers.

Separate adapters will be used by the database and the fitness watch, with the adapter allowing for compatibility with different watches.

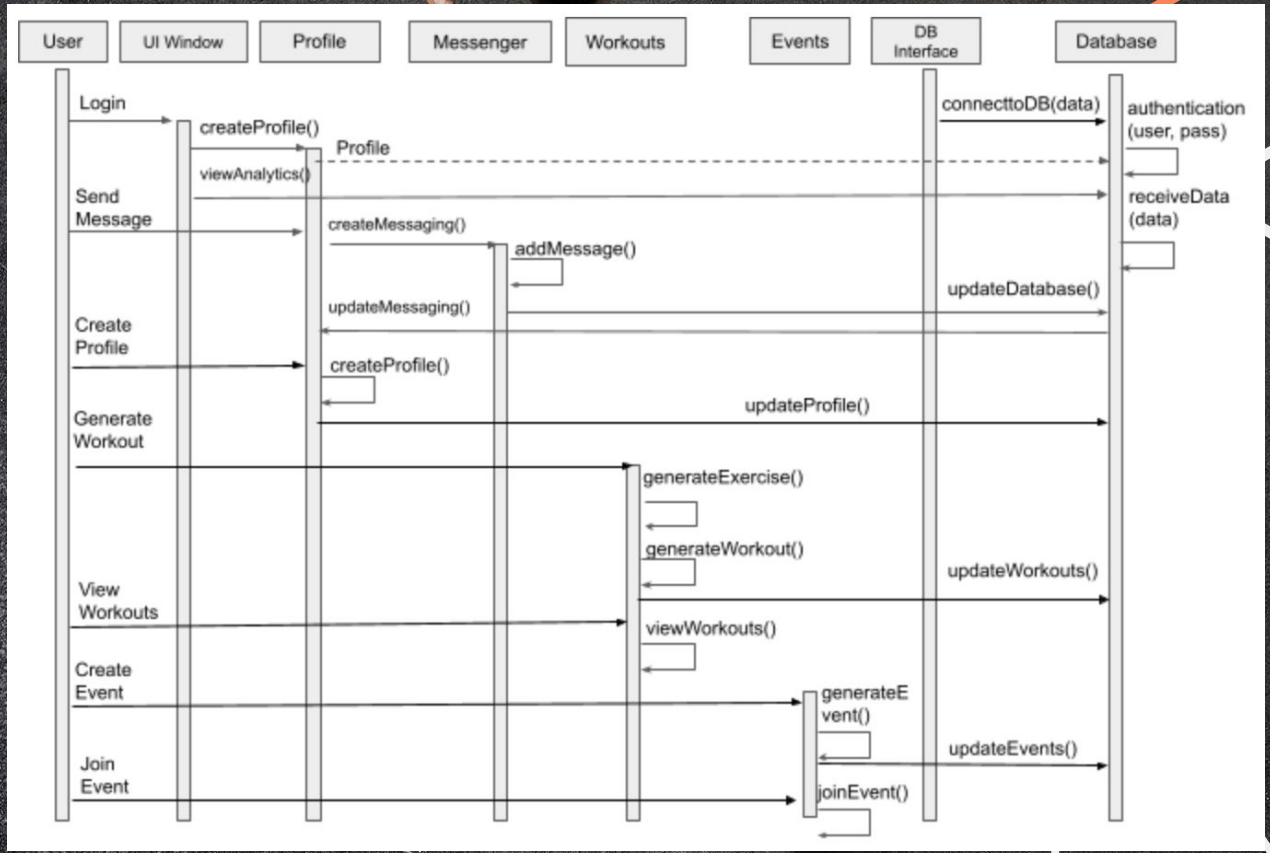
NODE.JS

We plan to use the Node.js framework due to the large amount of resources found online to aid us in front-end and database translation development

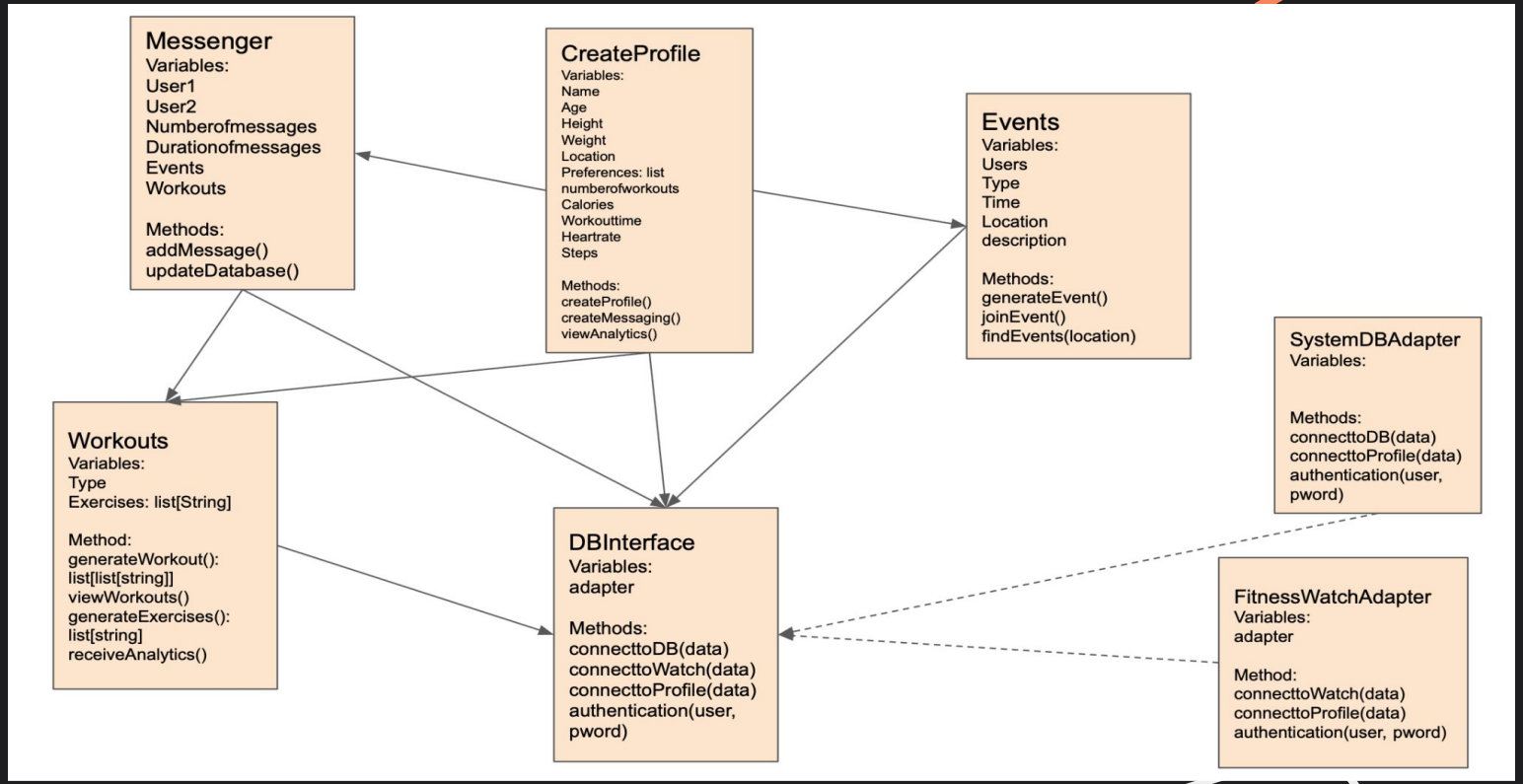
FIREBASE DB

FirebaseDB will be essential in making a secure, rapidly-updated, user-driven experience to provide a constant flow of new events to our users

Sequence Diagram



Class Diagram



EXPERIENCE COR

Documentation can be found here:
https://github.com/scrummasterjules/CSC431_Team13