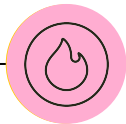# Welcome to COR

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

CSC431 Midterm Presentation by:
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Concept – COR

Cor is a modern take on fitness tracking and wellness goals.

This mobile app incorporates health statistic data from partnering apps such as Apple Health and Garmin and gives users customized health and training recommendations specific to their fitness goals.

The app incorporates community and collaboration between athletes by offering an on-app events and messaging platform so like-minded people can meetup and enjoy their workouts or wellness activities together.
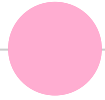
Functional Requirements

- View Landing Page
  - The very first opening page of the app that the user will first interact with.
- Login Page
  - The user will be prompted to login using some pre-existing login platform.
- Home Page
  - Appears after you log in, act as a directory you can choose menu options from, create a new event, view the map page, view your personalized workouts page, view the messaging page, or view the settings page.
- Logout Page
  - User will log out from the service with the aid of a logout button.
- User Profile Creation Page
 - Users will be able to provide more information about themselves.
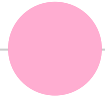
Functional Requirements cont.

- Personal Analytics Page
  - A page with an overview of the user's health statistics, upcoming events, and fitness goals for the day/week.

- Create Events Page
  - A page that's accessible from the homepage, allows you to create events to appear on your personal homepage (public or private), you can invite friends/fitness groups to your event and they can view the event on their user platform. Allows you to submit the event.

- Personalized Workouts Page
  - A page that displays the workouts curated by the underlying machine learning processes.

- Settings Page
  - A page that gives users options for personal app customization such as notifications, privacy, and security settings.
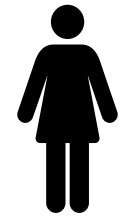
Non-Functional Requirements

- ## Messaging Page
  - A page where users can interact with each other through messaging. Users can also send pictures and react to other user's messages with a thumbs up emoji, the flexing arm emoji, the fire emoji, and the 100 emoji. Users can create different messaging group chats for workouts or event meetups.

- ## Reminder Notifications
  - Users will receive in browser, text, and email notifications notifying them of upcoming tasks, events, health statistics, and messages.
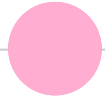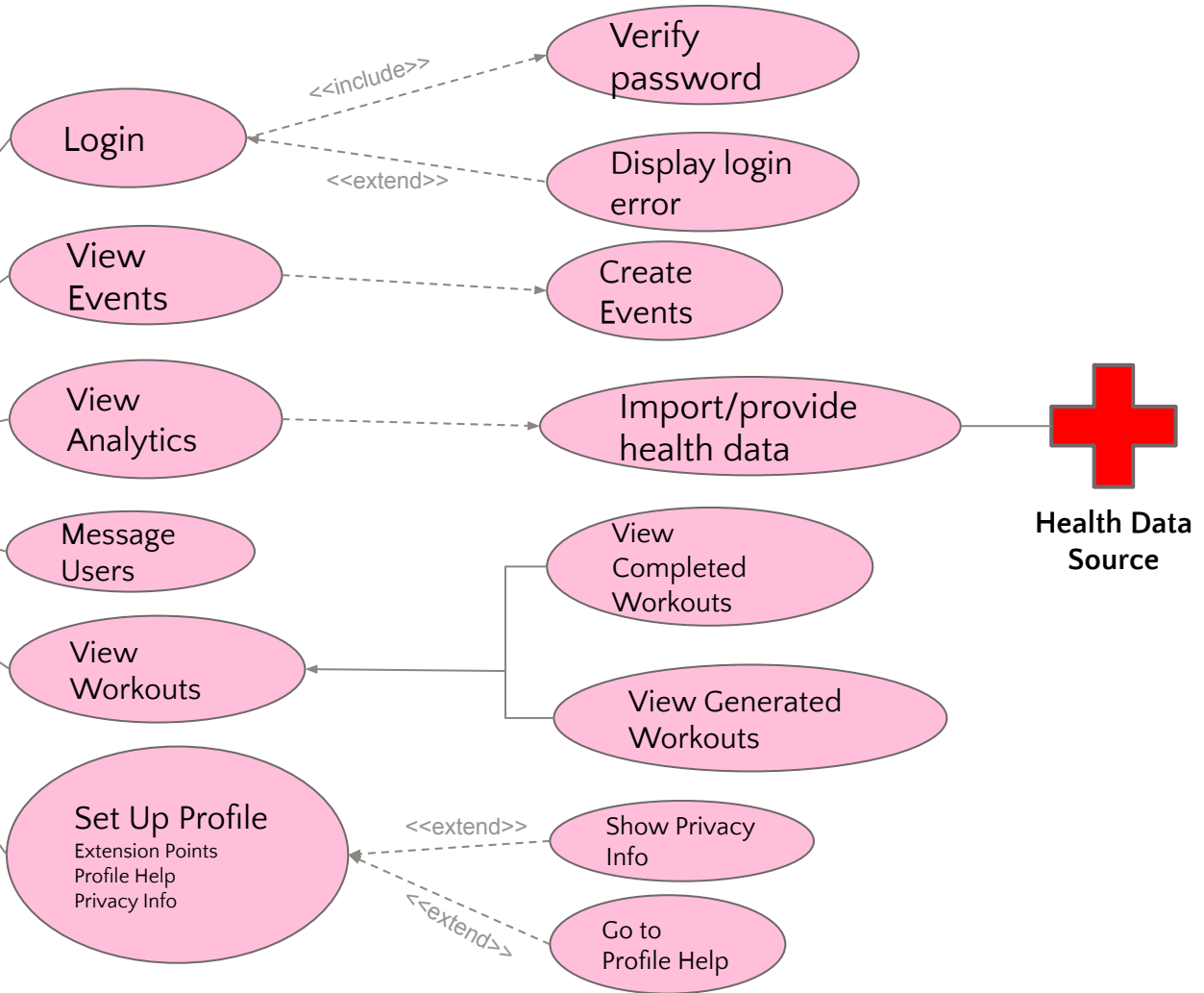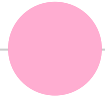
Evolutionary Requirement

- Android Compatibility
  - Once we have a successful launch on iOS, we will add the application to Android platforms to reach a larger user base.

COR Use Case Diagram

User Actor

Login — <<include>> → Verify password
Login ← <<extend>> — Display login error
View Events → Create Events
View Analytics → Import/provide health data — Health Data Source
Message Users
View Workouts
View Completed Workouts
View Generated Workouts
Set Up Profile
Extension Points
Profile Help
Privacy Info
<<extend>> → Show Privacy Info
<<extend>> → Go to Profile Help

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System Constraints

Frontend

For the front-end we plan to use the popular Node.js language as its popularity provides many resources online for us to learn from

Backend

Use of SQL and Python will be used on the backend for the storage and manipulation of data to improve the user experience the more they use the app

Platform

This will be a mobile-first application, currently focusing on an iOS exclusive launch.

General Constraints

Hardware Constraint

To access, users will need a cell phone and fitness-tracking device such as a smartwatch, as well as internet access. Most tracking platforms will sync to the iOS application.

Budget and Time Constraint

$0. We are students. A mock-up of this application must be completed by April 12 of this year, followed by eventual implementation in Fall 2022.

Network and Bluetooth Constraint

Users must have an internet connection and a bluetooth connection with their fitness watch.

Questions?