CSC 431

COR

Software Requirements Specification (SRS)

Team 13

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Version History

Version	Date	Author(s)	Change Comments
1.0.0	2.17.22	Julia Eisner, Jeffrey Hudak, TC McCaffrey	First Draft

Table of Contents

Table of Tables

Table of Figures

1. System Requirements

1.1 Functional Requirements

1.1.1   View Landing Page

Title	Landing Page
Description	The very first opening page of the app that the user will first interact with.
Priority	0
Precondition(s)	Graphics need to be developed.
Basic Flow	- Check if the user has signed in before: - If not, push user to the login page/throw up a login splash screen - If logged in before, push to the home page
Postconditions(s)	The login page and the user profile creation page need to be functional before continuing to interact.
Use Case Diagram	Graph 3.1.1

1.1.2   Login Page

Title	Login Page
Description	The user will be prompted to login using some pre-existing login platform such as through Apple, Google, or Facebook.
Priority	0
Precondition(s)	Landing page, login functionality, and user profile storage needs to be created
Basic Flow	- User will enter their username and password into the entry fields. - If the user profile exists and the information is correct, they will be taken to the homepage - If the username or password is incorrect, the user will receive a red notification below the field to inform them that the entry is incorrect.

	- If the username is incorrect and they will be that the username is either wrong or does not exist. They will have the option to hit the create user profile button which will take them to the user profile creation page. - If the password is wrong they will be told that it is incorrect and to try again.
Postconditions(s)	If the user successfully logs in they will be taken to the homepage to their dashboard
Use Case Diagram	Graph 3.1.1

1.1.3   Home Page

Title	Home Page
Description	This is the page that will appear after you have logged in. It will act as a directory that you can choose menu options from. From this page you will be able to select whether you would want to create a new event, view the map page, view your personalized workouts page, view the messaging page, or view the settings page.
Priority	1
Precondition(s)	Login
Basic Flow	Landing Page, to Login, to View Homepage
Postconditions(s)	None
Use Case Diagram	Graph 3.1.1

1.1.4   Logout Page

Title	Logout Page
Description	User will log out from the service with the aid of a logout button
Priority	2

Precondition(s)	Login
Basic Flow	User will select to logout on their dashboard and will receive a prompt that asks them to confirm that they would like to logout.
Postconditions(s)	Will be directed to the landing page where users can close the tab/app or login again.
Use Case Diagram	Graph 3.1.1

1.1.5   User Profile Creation Page

Title	User Profile Creation Page
Description	Users will be able to provide more information about themselves such as height, weight, a profile picture, location, ect.
Priority	2
Precondition(s)	The user must have signed in up to this point to save the newly inputted data to some account.
Basic Flow	- One scrollable page that has either text or numerical fields for the user to input information as it is asked - Once the user closes the page, any new information is saved to their account
Postconditions(s)	The user continues using the app as normal but the app begins to create/modify the curated workouts with respect to the new information. The address inputted will also be used as the users default location for any features requiring location services.
Use Case Diagram	Graph 3.1.1

1.1.6   Personal Analytics Page

Title	Personal Analytics Page

Description	A page with an overview of the user's health statistics such as heart rate, height, weight, steps walked today, calories burned, upcoming events, and fitness goals for the day/week.
Priority	1
Precondition(s)	Login and navigate here from homepage.
Basic Flow	- Login has already occurred - When viewing the homepage, user clicks on the icon for the "Personal Analytics Page" and is directed here.
Postconditions(s)	None
Use Case Diagram	Graph 3.1.1

1.1.7   Create Events Page

Title	Create Events Page
Description	A page that can be accessible from the homepage. It will allow you to create events that will appear on your personal homepage or, if you choose to make them public, you can invite friends or fitness groups to your event as well and they can view the event on their user platform as well. You can add dates, title, location, and workout type (colors). Allows you to submit the event.
Priority	4
Precondition(s)	Login and navigate here from the home page.
Basic Flow	- Login has already occurred - Interaction mainly comes from the creating a new event within this page - A layout of questions about date, duration, location, workout type, and whether it's private/public. - Submit button
Postconditions(s)	Your personal homepage will show the upcoming event that you have just created and submitted as will those you

	have invited. Those invited can choose to RSVP to the event.
Use Case Diagram	Graph 3.1.1

1.1.8   Personalized Workouts Page

Title	Personalized Workouts Page
Description	A page that displays the workouts curated by the underying machine learning processes. Split up by workout type such as cardio, swimming, weightlifting, ect.
Priority	2
Precondition(s)	The user must be signed in so the app can base its workouts on information provided by the user. If there is no account information provided, the app will provide generic workouts to begin but still requires the user to be signed in.
Basic Flow	- The page opens a scrollable selection workout types - After a certain type of workout is selected, the app will highlight a workout it reccomends most and provide a number of other generic workouts below - Once a workout is chosen it will display an overview on the phone as well as begin the workout on the user's smartwatch (if connected)
Postconditions(s)	The workout begins and the user is guided along the workout thorugh text and diagrams on their phone.
Use Case Diagram	Graph 3.1.1

1.1.9   Settings Page

Title	Settings Page
Description	A page that gives users the option for location tracking, dark/light mode, public/private, notifications, privacy, security, advertisements, help, about, change username, change, profile picture, change password.
Priority	1
Precondition(s)	The user must be signed in to pull their previous setting preferences and save to their new preferences
Basic Flow	- User opens the setting page and finds a scrollable selection of settings to toggle or change
Postconditions(s)	The settings are saved and applied immediately (if possible) to the users current app experience
Use Case Diagram	Graph 3.1.1

1.2 Non-Functional Requirements

< List all non-functional requirements in the following example format >

1.2.1   Messaging Page

Title	Messaging Page
Description	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.
Priority	4
Applicable FR(s)	Create Events Page

1.2.2   Reminder Notifications

Title	Reminder Notifications
Description	Users will receive in browser, text, and email notifications notifying them of upcoming tasks, events, health statistics, and messages.
Priority	4
Applicable FR(s)	Personalized Workouts Page

2. System Constraints

2.1 Tool Constraints

2.1.1   Mobile Application Framework Constraint

Title	Mobile Application Framework Constraint
Description	We will use Node.js for the frontend and the backend of our application.
Priority	0

2.2 Language Constraints

2.2.1   Backend Framework

Title	Backend Framework
Description	Knowledge of the following languages will be needed for the app: Swift, Java, Javascript, Python, and SQL.
Priority	0

2.3 Platform Constraints

2.3.1 Mobile Application Platform

Title	Mobile Application Platform
Description	This product will be a mobile app on iOS platforms.
Priority	0

2.4 Hardware Constraints

2.4.1 Cell Phone

Title	Cell Phone
Description	To access, users will need a cell phone with internet access. Will be used on iOS platforms.
Priority	0

2.5 Network Constraints

2.5.1 Network Connection

Title	Network Connection
Description	Users cannot use the service without an internet connection.
Priority	0

2.5.2 Bluetooth Connection

Title	Bluetooth Connection
Description	Users must have a bluetooth connection with their fitness watch.
Priority	0

2.6 Deployment Constraints

2.6.1   iOS Constraint

Title	iOS Constraint
Description	The App can only be deployed on cell phone devices that utilize the iOS mobile operating system.
Priority	0

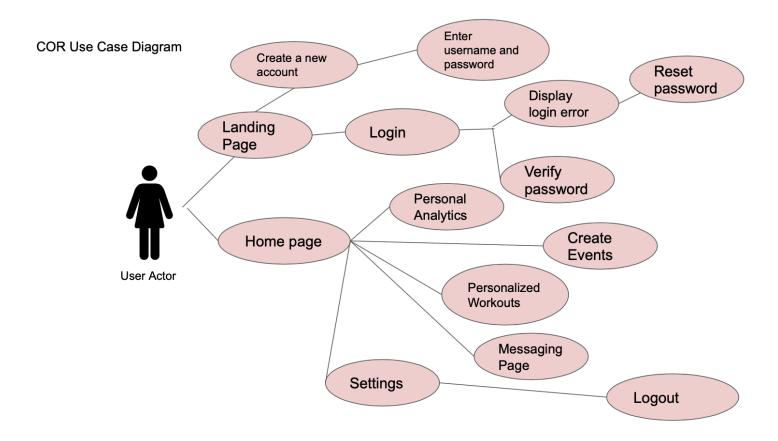## 2.8 Budget & Schedule Constraints

2.8.1   Budget

Title	Budget
Description	$0 we are students.
Priority	0

2.8.2   Due Date

Title	Due Date
Description	Needs to be done by the due date for this course.
Priority	0

3. Requirements Modeling

3.1.1   Use Case Diagram

COR Use Case Diagram

4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1 Android Compatibility

Title	Android Compatibility
Description	We will add the application to Android platforms to reach a larger user base.
Priority	5
Precondition(s)	Functionality on iOS platforms.
Postconditions(s)	Users with android devices will be able to use the application and its services.
Use Case Diagram	Graph 3.1.1