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FitWell SYSTEM REQUIREMENTS

DOCUMENT

DRAFT

RAM

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# **Introduction**

*The purpose of this document is to provide a clear and descriptive outline of the requirements of the FitWell app, as well as the stakeholders who will be using our app. This document contains a description model, which will outline the requirements of our system using the functions described in our project plan. It will also contain a class diagram, which shows all the app’s objects, with their attributes and methods that will be used. It also contains a use case diagram along with use case scenarios, which will show the user’s interactions with the system, as well as a full description of what happens during these interactions. Lastly, it will contain a system sequence diagram, which will show inputs and outputs of our system in time sequence, using the user’s interactions with the app.*

# **Description Model - Mikey**

*Using text, describe the requirements for your system. Expand on the function section from your project plan. Include requirements for the following categories: Output, Input, Processes, Performance and Security.*

***Output –*** *The app will send notifications to the user, which will contain a message or a reminder for a scheduled exercise. The app will also send intensity suggestions, such as taking a rest day or to exercise with more or less effort.*

***Input –*** *User can create and input information into a program, such as length of program, exercise selection, weights used, reps done, duration of workout. Users can also input goals, responses and feedback.*

***Processes –*** *User will need a smartphone, and a smart watch if they wish to use smartwatch features of the app. User will need to create an account, password must be at least 8 characters with an uppercase letter, number, and a special character, username must be unique. The app will need to connect to a smartwatch to read data from the watch (heart rate, calories burned). The app will work with an embedded database to provide a variety of exercise selections.*

***Performance –*** *The app must be operational 365 days a year, 24 hours a day so the user has access at all times.*

***Security –*** *The app provides security for any user with an account, so no personal information inputted is shared. Users can also select to keep their profile private or public, which will determine if they want their workouts and profile to be shown to other users.*

# **Class Diagram - Mikey**

# **Use Case Diagram - Ryan**

# **Use Case Scenarios - Ryan**

# **System Sequence Charts - Mikey**