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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 our 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.*

*User of the app will need a smartphone to use the app, and will need a smart watch if they wish to use that part of the app. They will need to create an account to use an app. The user will need to be able to input their own workout information into the app, like their program schedule and exercises, their goals, and their workout logs. The app will send notifications to the user and also provide prompts for the user to input responses and feedback. It will also read the user’s feedback and workout history to provide intensity suggestions, or to take a break from exercising. The app will have to work with the smart watch that the user connects with to receive heart rate and calories burned during workout sessions or throughout the day. The app will have a workout database imbedded into it to ensure users can select from a variety of exercises to include in their program. The system itself must be operational 365 days a year, 24 hours a day so the user can use it whenever they wish. The system provides security for any user who creates an account, so their personal information is not compromised.*

# **Class Diagram - Mikey**

*Create a class diagram. The Class Diagram should contain all of the system objects, their attributes, and any known methods. This diagram may be included as a separate file – it does not need to be inserted into this Word document.*

# **Use Case Diagram - Ryan**

*Create a Use Case Diagram for all of the "uses" of your system. This diagram may be included as a separate file – it does not need to be inserted into this Word document.*

# **Use Case Scenarios - Ryan**

*Create a full description Use Case Scenario (detailed descriptions) for each use case of the system. This full scenario should include an enumerated list of steps involved in the activity as well as any exception conditions.*

# **System Sequence Charts - Mikey**

*For each Use Case Scenario, provide a sequence diagram. Use your class diagram, use case diagram and scenarios to create the corresponding System Sequence Diagram*.