

Software Requirements Specification

for

Buff Stuff for Buff Bois and Fit Fams

Version <0.0>

Prepared by

Group Name: Swool Patrol

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Revisions

| Version | Primary Author(s) | Description of Version | Date Completed |
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| Draft Type and Number | Thomasb Bailey  Henry Unruh | Information about the revision. This table does not need to be filled in whenever a document is touched, only when the version is being upgraded. | 00/00/00 |

# 

# *<In this template you will find text bounded by the “<>” symbols. This text appears in italics and is intended to provide explanations and guide you through the document. There are two types of comments in this document. The comments that are in black are intended specifically for the course. The comments that are in blue are more general and apply to any SRS. Please make sure to delete all of the comments before submitting the document**.>*

# Introduction

Buff Stuff is an interactive web app designed to be used from a mobile device to manage lifestyle choices and improve user health.

## Document Purpose

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.

TO DO: Write 1-2 paragraphs describing the purpose of this document as explained above.>

## Product Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals.

TO DO: 1-2 paragraphs describing the scope of the product. Make sure to describe the benefits associated with the product.>

## Intended Audience and Document Overview

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers (In your case it would probably be the “client” and the professor). Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

## Definitions, Acronyms and Abbreviations

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.

TO DO: Please provide a list of all abbreviations and acronyms used in this document sorted in alphabetical order.>

## Document Conventions

<In general this document follows the IEEE formatting requirements. Use Arial font size 11, or 12 throughout the document for text. Use italics for comments. Document text should be single spaced and maintain the 1” margins found in this template. For Section and Subsection titles please follow the template.

TO DO: Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. Sometimes, it is useful to divide this section to several sections, e.g., Formatting Conventions, Naming Conventions, etc.>

## References and Acknowledgments

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document.

TO DO: Use the standard IEEE citation guide (attached) for this section.>

# Overall Description

## Product Perspective

<Buff Stuff (name pending) is a product designed to aid in making and maintaining healthier lifestyle choices. It is based around the idea that many fitness trackers allow for calorie counting and excercises performed along with other features but rarely incorperate them all into a single usable product. This systems design gives the user the ability to create a new plan or account to monitor their status or use existing third-party software for an existing plan.

The status is tracked through using goals set by the user. Once a goal has been set, the user can then perform different lifestyle activities to see whether they meet their criteria or not after some given time. Our product will utilize various databases in regards to nutritional values, such as caloric intake and calories burned.

TO DO: Provide at least one paragraph describing product perspective. Provide a general diagram that will illustrate how your product interacts with the environment and in what context it is being used, i.e., context diagram.>

## Product Functionality

<Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 3, so only a high level summary is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, will be effective.

TO DO:

1. Provide a bulleted list of all the major functions of the system

2. **(Optional)** Provide a Data Flow Diagram of the system to show how these functions relate to each other. This is useful when there is a clear sequence for the functions being performed.>

## Users and Characteristics

The users of the product will be the general public – free of use for everyone, however the scope isn’t inherently limited to this, fitness trainers and gyms may also use this application.

<Identify the various users that you anticipate will use this product. Users may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience.

TO DO:

1. Describe the pertinent characteristics of each user. Certain requirements may pertain only to certain users.

3. Distinguish the most important users for this product from those who are less important to satisfy.>

Anyone interested

## Operating Environment

The operating environment will be on a computer or mobile device(maybe). The software that is pertinent will be any operating system like Windows 7/10, macOS, iOS, Android, and Linux. Poop.

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist. In this part, make sure to include a simple diagram that shows the major components of the overall system, subsystem interconnections, and external interface

TO DO: As stated above, in at least one paragraph, describe the environment your system will have to operate in. Make sure to include the minimum platform requirements for your system. >

## Design and Implementation Constraints

You need access to free databases for exercises and nutritional content. In addition to this, developers will need access to the software details for third-party accessories like FitBit or other trackign applications.

Hardware compatability is also a potential issue, since some of the guidelines for certain platforms are different.

<Describe any items or issues that will limit the options available to the developers. These might include: hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).

TO DO: In this section you need to consider all of the information you gathered so far, analyze it and correctly identify relevant constraints.>

## User Documentation

Weekly back log for fitness tracking

Goal tracking

Push notifications for reoccuing events and habits

User end agreement

Wiki page with a FAQ

## Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project.

TO DO: Provide a short list of some major assumptions that might significantly affect your design. For example, you can assume that your client will have 1, 2 or at most 50 Automated Banking Machines. Every number has a significant effect on the design of your system. >

# Specific Requirements

## External Interface Requirements

### User Interfaces

Manual entery mode

App settings

### Hardware Interfaces

Communicates with 3rd party software

Fit bit

I watch

ect

### Software Interfaces

Nutrition databse

Communicatse with the cloud

Uploads to Facebook and Instagram

### Communications Interfaces

HTTPS for main website

2factor authentication

## Functional Requirements

Tracks calories burned

Access fit bit

Manual entry mode

Pedometer function for phone

Uploads to FB and Instagram

Tracks calories consumed

Manual entry mode

Food nutrition database

Progress tracker

Weekly progress report

Consumed vs burned

Nutrition tracker

Exercise tracker

Goal setting

Timeline to success

Before and after

Diet plan

## Behaviour Requirements

### Use Case View

<A use case defines a goal-oriented set of interactions between external actors and the system under consideration.

TO DO: Provide a use case diagram which shows the entire system and all possible actors. Do not include detailed use case descriptions (these will be needed when you will be working on the Test Plan), but make sure to include a short description of what every use-case is, who are the actors in your diagram.>

# Other Non-functional Requirements

## Performance Requirements

Requirment testing

Ofline accesiblity

Takes less than <5 sec to load the program

Auto updates

Auto formatting for different devices

Touch screen boxes for better response

Easy to add and remove your data

## Safety and Security Requirements

2 factor identification

Biometric security

Main site has HTTPs ecription

Password >8 char and 3 different symbol types

## Software Quality Attributes

Quality information provided

Information is updated quickly in system

Reliable uplads to the cloud

User friendly UI

Ease of maintenace & troubleshooting

# Other Requirements

<This section is **Optional.** Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

Appendix A – Data Dictionary

*<Data dictionary is used to track all the different variables, states and functional requirements that you described in your document. Make sure to include the complete list of all constants, state variables (and their possible states), inputs and outputs in a table. In the table, include the description of these items as well as all related operations and requirements.>*

Appendix B - Group Log

<Please include here all the minutes from your group meetings, your group activities, and any other relevant information that will assist the Teaching Assistant to determine the effort put forth to produce this document>