# **Software Engineering Group Projects -**

# **User Interface Specification Standards**

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## **1. INTRODUCTION**

### **1.1 Purpose of this document**

The purpose of this document is to provide our group with an outline of the types of users which are likely to use our program, what use cases our users would need to carry out, how our User Interface will allow them to do so and any error conditions that may arise. This will help our group in the Design section of the project.

### **1.2 Scope**

This document specifies the different types of typical users that may use our program, what are the potential use cases they may need to carry out with descriptions of how they would do that in the User interface and the potential error conditions that may occur when a user has the program running.

### **1.3 Objectives**

The main objective of this document is to help the group understand the requirements of the system that is going to be built and indicate a clear path for what the user can see or do at any point while interacting with the program.

## **2. TYPICAL USERS**

#### **2.1 Beginner Users**

Emily is completely new to exercising and therefore has only a rudimentary knowledge. She uses the program to show her how to perform exercises properly and keep time for her working/resting sequences.

#### **2.2 Experienced Users**

John is experienced in exercising and works out everyday, because of this he often finds it difficult to think of new and fun workouts. He uses the app to configure his own workouts and uses the preconfigured workouts section to find HIIT workouts for him to do.

#### **2.3 Elderly Users**

Anna is an elderly woman and uses the app to guide her through a low intensity workout that is preconfigured by the program. She likes to use the workout history to see the previous workouts she's done.

#### **2.4 Disabled Users**

Jack is a disabled person having issues with his vision and uses the fitness app, so this application asks jack for disability through a voice message and for his answer it provides him with auditory aids for accessing the exercises saved specifically for people with limitations and allows him to interact with application through audio communication instead of manual communication method.

## **3. USE CASES**

### **3.1 Beginner Users**

#### **3.1.1 Configuring a workout**

Configure your own exercise selection by clicking the “Configure your own workout” button. The user will then have to enter how many exercises they want to do, the working and resting times and how long a break (if any) they want in the middle of the workout, they would then have to press the “Configure workout” button and it will be created.

#### **3.1.2 Watching demonstrations of proper form**

Watch videos or see demonstrations of proper form of the current exercise displayed on screen during the rest sequences and when the exercise should be taking place.

#### **3.1.3 Starting a workout**

Be able to start a workout by either clicking the “Choose Preconfigured Workout” button, choosing one of the preconfigured workouts and then clicking the “Start Workout” button or they could click the “Configure your own workout” button, the user will then be brought to the screen mentioned in 3.1.1 complete that page and press “Configure workout”.

#### **3.1.4 Pausing a workout**

Be able to pause the workout by pressing the “Pause workout” button when the workout has started.

#### **3.1.5 Resuming a workout**

Be able to resume the workout after the workout has been paused by pressing the “Resume workout” button.

#### **3.1.6 Viewing workout history**

Being able to look at your previous workout history displayed on the right of the screen mentioned in 3.1.1

### **3.2 Experienced Users**

#### **3.2.1 Accessing higher intensity or HIIT workouts**

The user will be able to access preconfigured, higher intensity workouts by pressing the “Choose preconfigured workout” button mentioned in , do and choosing a workout with a longer working time and less rest time or more physically strenuous exercises.

#### **3.2.2 Favoriting workouts**

Experienced users should be able to pin workouts as their favourite workouts, so that the next time they use the application.

#### **3.2.3 Accessing Favourite list of workouts**

They get their favourite workouts labelled at the top. So, it's for them to select their workouts from the list of labelled workouts

### **3.3 Elderly Users / Disabled Users**

#### **3.3.1 Accessing LIIT(Low Intensity Interval Training) workouts**

Accessing workouts tailor made for people with less physical functionality.

- while logging in to the app, it will ask the use if they are elderly or disabled, if they answer yes then workouts tailored for people with less physical functions will be displayed to them, and message would ask the user that if they want to access the workout tailored for them or if they want to see and find their own list of exercise

#### **3.3.2 Audio description of exercises (blind)**

The user will be aided with help of audio, after opening the app user will be asked through a voice message, if they have disability, if yes, they would further be prompted for a voice message if they would like audio aid for further use of application, again if they say yes audio assistance would be available for them to describe the exercise and filling in some information into the application.

## **4. ERROR CONDITIONS**

## **5. REFERENCES**

#### **5.1**

SE.QA.04

#### **5.2**

SE.QA.02

#### **5.3**

SE.QA.03

## **6. DOCUMENT CHANGE HISTORY**

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| --- | --- | --- | --- |
| *Version* | *Date* | *Changes Made* | *Changed by* |
| V 0.1 | 3rd February | Thought of typical users and use cases | keg21 |
| V 0.2 | 7th February | Added more descriptions to the Use Cases | keg21 |
| V 0.3 | 10th February | Added more typical users and use cases | tak17 |