# Module Interface Specification for REVITALIZE

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# 1 Revision History

Date		Version	Notes
January	14th,	Bill	Added MIS for Main Menu and Calendar
2023		Nguyen	
January	14th,	Bill	Added Introduction, Notation, Acronyms
2023		Nguyen	
January	16th,	Youssef	Added Sleep Container Module
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2023		Dahab	
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2023		Kibria	
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2023		Brown	
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2023		Nguyen	

# 2 Symbols, Abbreviations and Acronyms

See SRS Documentation at https://github.com/BillNguyen1999/REVITALIZE/tree/main/docs/SRS

symbol	description
DS	Diet Section
HCI	Human-Computer Interface
LP	Login Page
MG	Module Guide
MIS	Module Interface Specification
MP	Main Page
REVITALIZE	Name of application
RS	Rest Section
SP	Sign-up Page
SRS	Software Requirements Specification
UAT	User Acceptance Testing
UI/UX	User Interface/User Experience
VnV	Verification and Validation
WS	Workout Section

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# 3 Introduction

The following document details the Module Interface Specifications for the REVITAL-IZE app. The REVITALIZE app is an all-in-one health and wellness app, comprised of 1 main section and 3 major subsections. The main section is a calendar which organizes and documents the contents of the 3 subsections. The 3 subsections are the diet section, workout section, and sleep section.

Complementary documents include the System Requirement Specifications and Module Guide. The full documentation and implementation can be found at <a href="https://github.com/BillNguyen1999/REVITALIZE/tree/main/docs">https://github.com/BillNguyen1999/REVITALIZE/tree/main/docs</a>.

# 4 Notation

The structure of the MIS for modules comes from ?, with the addition that template modules have been adapted from ?. The mathematical notation comes from Chapter 3 of ?. For instance, the symbol := is used for a multiple assignment statement and conditional rules follow the form  $(c_1 \Rightarrow r_1 | c_2 \Rightarrow r_2 | ... | c_n \Rightarrow r_n)$ .

The following table summarizes the primitive data types used by REVITALIZE.

Data Type	Notation	Description
character	char	a single symbol or digit
integer	$\mathbb{Z}$	a number without a fractional component in $(-\infty, \infty)$
natural number	N	a number without a fractional component in $[1, \infty)$
real	$\mathbb{R}$	any number in $(-\infty, \infty)$
boolean	$\mathbb{B}$	value can be True $(1)$ or False $(0)$
user	User	represents user object, for users of REVITALIZE
date	Date	represents date object, which is useful to add/set/manipulate dates

The specification of REVITALIZE uses some derived data types: sequences, strings, and tuples. Sequences are lists filled with elements of the same data type. Strings are sequences of characters. Tuples contain a list of values, potentially of different types. In addition, REVITALIZE uses functions, which are defined by the data types of their inputs and outputs. Local functions are described by giving their type signature followed by their specification.

# 5 Module Decomposition

The following table is taken directly from the Module Guide document for this project.

Level 1	Level 2
Hardware-Hiding Module	
	Main Menu
	Calendar
	Login
Behaviour-Hiding Module	Container
	Label
	Circular Slider
	Diet Log
	Search or Add Food
	Custom Meal
	Search Recipe
	Recipe Results
	Recipe Details
	Workout Display
	Workout Edit
	Workout Log
	Signup
	$\operatorname{FoodT}$
Software Decision Module	ExerciseT

Table 1: Module Hierarchy

# 6 MIS of Login

# 6.1 Login Module

# 6.2 Uses

 $\begin{array}{c} react \\ react\text{-}native \end{array}$ 

globalStyles: CSS file to change designs of project

useRoute react file that is used to navigate between screens of project

## 6.3 Syntax

#### 6.3.1 Exported Constants

N/A

#### 6.3.2 Exported Types

N/A

#### 6.3.3 Exported Access Programs

Name	In	Out	Exceptions
displayMainMenuScreen	NameOrEmail string, Password string		
displayForgotPasswordScreen			
displaySignUpScreen			

#### 6.4 Semantics

#### 6.4.1 State Variables

NameOrEmail: string that stores user input of name or email

Password: string that stores user passwoord input

#### 6.4.2 Environment Variables

LoginButton: button object that displays Main Menu screen when clicked

ForgotPasswordButton: button object that displays Forgot Password screen when clicked

SignUpButton: button object that displays Sign Up screen when clicked

#### 6.4.3 Assumptions

N/A

#### 6.4.4 Access Routine Semantics

displayMainMenuScreen(NameOrEmail, Password):

- transition: navigates to Main Menu screen when login button is pressed after successfully entering name or email and password
- exception: None

displayForgotPasswordScreen():

- transition: navigates to Forgot Password screen when forgot password link is clicked
- exception: None

displaySignUpScreen():

- transition: navigates to Sign Up screen when sign up link is clicked
- exception: None

#### 6.4.5 Local Functions

N/A

# 7 MIS of Sign-up

# 7.1 Sign-up Module

#### 7.2 Uses

 $\begin{array}{c} \textit{react} \\ \textit{react-native} \end{array}$ 

globalStyles: CSS file to change designs of project

useRoute react file that is used to navigate between screens of project

# 7.3 Syntax

#### 7.3.1 Exported Constants

N/A

#### 7.3.2 Exported Types

N/A

## 7.3.3 Exported Access Programs

Name	In	Out	Exceptions
<u>displayMainMenuScreen</u>	Name, Email, Password, ConfirmPassword		
displayMainMenuScreen	string, string, string		
displayLoginScreen			

### 7.4 Semantics

#### 7.4.1 State Variables

Name: string that stores user input of name

Email: string that stores user email

Password: string that stores user password input

ConfirmPassword: string that stores user password input

#### 7.4.2 Environment Variables

signUpButton: Button object that creates account and navigates to Main Screen

loginButton: Button that navigates back to Login Screen

#### 7.4.3 Assumptions

N/A

#### 7.4.4 Access Routine Semantics

displayMainMenuScreen(Name, Email, Password, ConfirmPassword):

- transition: navigates to Main Menu screen when sign-up is validated and successful
- exception: None

displayLoginScreen():

- transition: navigates to login screen when login page link is clicked
- exception: None

#### 7.4.5 Local Functions

# 8 MIS of Main Menu

# 8.1 Main Menu Module

#### 8.2 Uses

react react-native

globalStyles: CSS file to change designs of project

Ionicons: Library for icons

Moment: Library is used for Dates (ex. setting date formats (YY/MM/DD))

useRoute: react file that is used to navigate between screens of project

# 8.3 Syntax

#### 8.3.1 Exported Constants

N/A

### 8.3.2 Exported Types

MainScreen = this

### 8.3.3 Exported Access Programs

Name	In	Out	Exceptions
displayDietScreen	User, Date		
displayExerciseScreen	User, Date		
displaySleepScreen	User, Date		
displayCalendarScreen			

#### 8.4 Semantics

#### 8.4.1 State Variables

user: User

date: Date

#### 8.4.2 Environment Variables

dateText: Text object that displays the selected date.

dateButton: Button object that displays Calendar Screen when clicked.

forwardButton: Button object that displays the next day from current Date value in date-Text when clicked

backwardButton: Button object that displays the previous day from current Date value in dateText when clicked

dietButton: Button object that displays Diet Screen when clicked

exerciseButton: Button object that displays Exercise Screen when clicked

sleepButton: Button object that displays Sleep Screen when clicked

#### 8.4.3 Assumptions

N/A

#### 8.4.4 Access Routine Semantics

displayDietScreen(user, date):

- transition: Navigates to Diet Screen when dietButton is pressed
- exception: None

displayExerciseScreen(user, date):

- transition: Navigates to Exercise Screen when exerciseButton is pressed
- exception: None

displaySleepScreen(user, date):

- transition: Navigates to Sleep Screen when sleepButton is pressed
- exception: None

displayCalendarScreen():

- transition: Navigates to Calendar Screen when dateButton is pressed
- exception: None

#### 8.4.5 Local Functions

forwardSetDate():

- transition: date.day.value := date.day.value + 1. Sets the next day from the current Date value in dateText when clicked.
- exception: None

backwardSetDate():

- transition: date.day.value := date.day.value 1. Sets the previous day from the current Date value in dateText when clicked.
- exception: None

# 9 MIS of Calendar

#### 9.1 Calendar Module

#### 9.2 Uses

react

react-native

globalStyles: CSS file to change designs of project

react-native-calendars: Library useful for implementing calendars in react-native

useRoute react file that is used to navigate between screens of project

# 9.3 Syntax

#### 9.3.1 Exported Constants

N/A

#### 9.3.2 Exported Types

CalendarScreen = this

#### 9.3.3 Exported Access Programs

Name	In	Out	Exceptions
onDayPress			
onMonthChange			
onPressArrowLeft			
onPressArrowRight			

#### 9.4 Semantics

#### 9.4.1 State Variables

date: Date

#### 9.4.2 Environment Variables

monthText: Text object that displays the selected month.

forwardMonthButton: Button object that displays the next month from current month value in monthText when clicked

backwardMonthButton: Button object that displays the previous month from current month value in monthText when clicked

#### 9.4.3 Assumptions

N/A

#### 9.4.4 Access Routine Semantics

onDayCalendar():

- transition: Changes date value to selected date value in CalendarScreen
- exception: None

onMonthChange():

- transition: Changes date.month.value to new date.month.value and monthText will be changed to string value of new date.month.value
- exception: None

onPressArrowRight():

- transition: date.month.value := date.month.value + 1. Sets the next date.month.value from the current date.month.value in monthText when clicked
- exception: None

onPressArrowLeft():

- transition: date.month.value := date.month.value 1. Sets the previous date.month.value from the current date.month.value in monthText when clicked
- exception: None

#### 9.4.5 Local Functions

N/A

# 10 MIS of Sleep

## 10.1 Container Module

#### 10.2 Uses

react

react-native

react-native-reanimated

react-native-redash

Label: Module

Circular Slider: Module

# 10.3 Syntax

#### 10.3.1 Exported Constants

 ${\rm PI}:={\rm Math}$  (object that provides mathematics functionality and constants)  ${\rm TAU}:=2$  \*  ${\rm PI}$ 

# 10.3.2 Exported Types

N/A

#### 10.3.3 Exported Access Programs

Name	In	Out	Exceptions
DisplayContainer	$\frac{1}{2}$ start $\mathbb{R}$ , end $\mathbb{R}$		
onSlideCircularArc			

#### 10.4 Semantics

#### 10.4.1 State Variables

start:  $\mathbb{R}$ , the set bedtime

end:  $\mathbb{R}$ , the set wake up time

#### 10.4.2 Environment Variables

BedTime: string object that displays the selected bedtime.

WakeUpTime: string object that displays the selected wake up time.

SleepTime: string object that displays the total sleep time.

ArcStartPos: polar coordinates object representing starting position of circular slider arc. Modifies BedTime and SleepTime when slid.

ArcEndPos: polar coordinates object representing ending position of circular slider arc. Modifies WakeUpTime and SleepTime when slid.

CircularSliderArc: string literal object representing an arc.

#### 10.4.3 Assumptions

N/A

#### 10.4.4 Access Routine Semantics

DisplayContainer():

- output: display bedtime, wake up time, sleep time, arc starting and ending positions, and circular slider arc
- exception: None

onSlideCircularArc():

- transition: recalculate total SleepTime based on the modified BedTime or WakeUp-Time
- output: display new total SleepTime on screen

#### 10.4.5 Local Functions

radToMinutes(rad):

- output: rad \* 24 \* 60 / TAU
- exception: None

absoluteDuration(start, end):

• output: start > end? end + (TAU - start): end - start

• exception: None

formatDuration2(duration):

• output: total sleep time formatted in hours followed by minutes.

• exception: None

# 11 MIS of Sleep

# 11.1 Label Module

### 11.2 Uses

react
react-native
react-native-reanimated
react-native-redash
@expo/vector-icons

# 11.3 Syntax

#### 11.3.1 Exported Constants

PI := Math (object that provides mathematics functionality and constants) TAU := 2 \* PI

#### 11.3.2 Exported Types

N/A

#### 11.3.3 Exported Access Programs

Name	In	Out	Exceptions
DisplayImage			
DisplayLabel	$\frac{1}{2}$ start $\mathbb{R}$ , end $\mathbb{R}$		
onSlideCircularArc	$\frac{1}{2}$ start $\mathbb{R}$ , end $\mathbb{R}$		

#### 11.4 Semantics

#### 11.4.1 State Variables

start:  $\mathbb{R}$ , the set bedtime is passed from Container module

end:  $\mathbb{R}$ , the set wake up time is passed from Container module

#### 11.4.2 Environment Variables

BedTime: string object that displays the selected bedtime.

WakeUpTime: string object that displays the selected wake up time.

#### 11.4.3 Assumptions

N/A

#### 11.4.4 Access Routine Semantics

DisplayImage():

- output: display bed icon, "BEDTIME" text, ring icon, and "WAKE UP" text
- exception: None

DisplayLabel(start, end):

- output: display user set BedTime and WakeUpTime
- exception: None

onSlideCircularArc(start, end):

- transition: modify BedTime and WakeUpTime values to new BedTime and WakeUpTime values respectively
- exception: None

#### 11.4.5 Local Functions

radToMinutes(rad):

- output: rad \* 24 \* 60 / TAU
- exception: None

formatDuration(duration):

- output: set bed time and wake up time in the 24-hour clock format
- exception: None

# 12 MIS of Sleep

### 12.1 Circular Slider Module

#### 12.2 Uses

react
react-native
react-native-reanimated
react-native-redash
react-native-svq

# 12.3 Syntax

#### 12.3.1 Exported Constants

PI := Math (object that provides mathematics functionality and constants) TAU := 2 \* PI

#### 12.3.2 Exported Types

N/A

#### 12.3.3 Exported Access Programs

Name	In	Out	Exceptions
DisplayCircularSlider	ArcStartPos, ArcEndPos		
onSlideCircularArc	ArcStartPos, ArcEndPos		

#### 12.4 Semantics

#### 12.4.1 State Variables

ArcStartPos: polar coordinates object representing starting position of circular slider arc

ArcEndPos: polar coordinates object representing ending position of circular slider arc

#### 12.4.2 Environment Variables

ArcStartPos: Modifies BedTime and SleepTime when slid.

ArcEndPos: Modifies WakeUpTime and SleepTime when slid.

CircularSliderArc: string literal object representing an arc.

#### 12.4.3 Assumptions

N/A

#### 12.4.4 Access Routine Semantics

DisplayCircularSlider(start, end):

- output: display arc starting position, ending position, and circular slider arc
- exception: None

onSlideCircularArc(ArcStartPos, ArcEndPos):

- transition: modify ArcStartPos and ArcEndPos coordinate values to new ArcStartPos and ArcEndPos coordinate values respectively when user slides circular arc
- exception: None

#### 12.4.5 Local Functions

absoluteDuration(start, end):

- output: start > end? end + (TAU start): end start
- exception: None

ConvertArcStartPos(ArcStartPos):

- output: convert ArcStartPos from polar coordinates to canvas coordinates
- exception: None

ConvertArcEndPos(ArcEndPos):

- output: convert ArcEndPos from polar coordinates to canvas coordinates
- exception: None

# 13 FoodT Module

# 13.1 Module

IndicatorT

## 13.2 Uses

None

# 13.3 Syntax

#### 13.3.1 Exported Constants

None

# 13.3.2 Exported Types

```
FoodT = {
calories, \#Calories\ in\ meal
name, \#Name\ of\ meal
carbs, \#Carbohydrates\ in\ meal
protein, \#Protein\ in\ meal
fat \#Fat\ in\ meal
}
```

## 13.3.3 Exported Access Programs

None

#### 13.4 Semantics

#### 13.4.1 State Variables

None

#### 13.4.2 State Invariant

None

#### 13.4.3 Assumptions

None

#### 13.4.4 Considerations

None

# 14 Diet Log Module

#### 14.1 Uses

react

react-native

globalStyles: CSS file to change designs of project

Ionicons: Library for icons

useRoute react file that is used to navigate between screens of project

# 14.2 Syntax

#### 14.2.1 Exported Constants

#### 14.2.2 Exported Types

DietLogScreen = this

#### 14.2.3 Exported Access Programs

Name	In	Out	Exceptions
calculateDailyNutrition	seq of FoodT	seq of $\langle String, \mathbb{R} \rangle$	
removeFood	food: FoodT		

#### 14.3 Semantics

#### 14.3.1 State Variables

foodList: seq of FoodT

totalNutrition: seq of  $\langle String, \mathbb{R} \rangle$ 

date: Date

### 14.3.2 Environment Variables

addFoodButton: Button object that shifts user to Search or Add Food Module.

deleteFoodButton: Button object that deletes a food entry from this module when clicked

editFoodButton: Button object navigates to Log Meal Module

### 14.3.3 Assumptions

N/A

#### 14.3.4 Access Routine Semantics

calculateDailyNutrition():

- transition: totalNutrition :=  $\sum$  foodList
- exception: None

removeFood(food: FoodT):

- transition: foodList := {foodList} \ food. Sets the next date.month.value from the current date.month.value in monthText when clicked
- exception: None

#### 14.3.5 Local Functions

N/A

# 15 Search or Add Food Module

#### 15.1 Uses

 $\begin{array}{c} react \\ react\text{-}native \end{array}$ 

globalStyles: CSS file to change designs of project

useRoute react file that is used to navigate between screens of project

# 15.2 Syntax

#### 15.2.1 Exported Constants

#### 15.2.2 Exported Types

DecisionScreen = this

#### 15.2.3 Exported Access Programs

None

#### 15.3 Semantics

#### 15.3.1 State Variables

None

#### 15.3.2 Environment Variables

searchRecipeButton: Button object that shifts user to Search Recipe Module.

addCustomMealButtom: Button object that shifts user to Log Meal Module

#### 15.3.3 Assumptions

N/A

#### 15.3.4 Access Routine Semantics

calculateDailyNutrition():

- transition: total Nutrition :=  $\sum$  foodList
- exception: None

removeFood(food: FoodT):

- transition: foodList := {foodList} \ food. Sets the next date.month.value from the current date.month.value in monthText when clicked
- exception: None

#### 15.3.5 Local Functions

N/A

# 16 Custom Meal Module

#### 16.1 Uses

react

react-native

globalStyles: CSS file to change designs of project

react-native-calendars: Library useful for implementing calendars in react-native

useRoute react file that is used to navigate between screens of project

# 16.2 Syntax

# 16.2.1 Exported Constants

N/A

## 16.2.2 Exported Types

CustomMealScreen = this

## 16.2.3 Exported Access Programs

Name	In	Out	Exceptions
saveCustomMeal	foodInfo: seq of String	FoodT	

# 16.3 Semantics

#### 16.3.1 State Variables

foodList: seq of String

#### 16.3.2 Environment Variables

addButton: Save food information.

#### 16.3.3 Assumptions

N/A

#### 16.3.4 Access Routine Semantics

saveCustomMeal(foodInfo):

• transition: foodList := foodList  $\cup$  FoodT(foodInfo)

• exception: None

### 16.3.5 Local Functions

# 17 Search Recipe Module

#### 17.1 Uses

react

react-native

globalStyles: CSS file to change designs of project

Ionicons: Library for icons

useRoute react file that is used to navigate between screens of project

# 17.2 Syntax

#### 17.2.1 Exported Constants

N/A

#### 17.2.2 Exported Types

SearchRecipeScreen = this

#### 17.2.3 Exported Access Programs

Name	In	Out	Exceptions
searchRecipe	filterList: seq of <string, string=""></string,>	Seq of <string, string=""></string,>	
returnRecipeList		Seq of <string, string=""></string,>	

#### 17.3 Semantics

#### 17.3.1 State Variables

filterList: seq of <String, String> recipeList: Seq of <String, String>

#### 17.3.2 Environment Variables

searchRecipeButton: Button object that shifts user to Search Results Module, calls searchRecipe().

#### 17.3.3 Assumptions

#### 17.3.4 Access Routine Semantics

searchRecipe(filterList):

• transition: Populates state variable recipeList using external API call.

• exception: None

#### 17.3.5 Local Functions

N/A

# 18 Recipe Results Module

#### 18.1 Uses

react

react-native

globalStyles: CSS file to change designs of project

react-native-calendars: Library useful for implementing calendars in react-native

useRoute react file that is used to navigate between screens of project

# 18.2 Syntax

### 18.2.1 Exported Constants

N/A

#### 18.2.2 Exported Types

RecipeResultsScreen = this

#### 18.2.3 Exported Access Programs

Name	In	Out	Exceptions
retrieveRecipeInfo	recipeLink: String	<string, fileobject=""></string,>	

#### 18.3 Semantics

#### 18.3.1 State Variables

recipeList: Seq of <String, String>

#### 18.3.2 Environment Variables

#### 18.3.3 Assumptions

N/A

#### 18.3.4 Access Routine Semantics

retrieveRecipeInfo(recipeLink):

- transition: Retrieve details and picture file of recipe found at recipeLink
- exception: None

#### 18.3.5 Local Functions

N/A

# 19 Recipe Details Module

# 19.1 Uses

react

react-native

globalStyles: CSS file to change designs of project

*Ionicons:* Library for icons

useRoute react file that is used to navigate between screens of project

## 19.2 Syntax

#### 19.2.1 Exported Constants

#### 19.2.2 Exported Types

RecipeDetailsScreen = this

#### 19.2.3 Exported Access Programs

N/A

#### 19.3 Semantics

#### 19.3.1 State Variables

recipeDetails: seq of <String, FileObject>

#### 19.3.2 Environment Variables

addRecipeButton: Add recipe to Daily Food Log.

## 19.3.3 Assumptions

N/A

- 19.3.4 Access Routine Semantics
- 19.3.5 Local Functions

N/A

# 20 MIS of Workout

- 20.1 ExerciseT Module
- 20.2 Uses

N/A

# 20.3 Syntax

### 20.3.1 Exported Constants

N/A

# 20.3.2 Exported Types

#### 20.3.3 Exported Access Programs

## 20.4 Semantics

#### 20.4.1 State Variables

N/A

#### 20.4.2 Environment Variables

N/A

#### 20.4.3 Assumptions

N/A

#### 20.4.4 Access Routine Semantics

getWorkout(user, date):

- transition: Fetches the date's workout from Workout Log Module
- exception: None

#### 20.4.5 Local Functions

N/A

# 20.5 Workout Display Module

#### 20.6 Uses

react

react-native

globalStyles: CSS file to change designs of project

Moment: Library is used for Dates (ex. setting date formats (YY/MM/DD))

useRoute: react file that is used to navigate between screens of project

wger: Rest API providing exercise images and names

Workout Log: Module for storing workouts Exercise T: Module representing an exercise

# 20.7 Syntax

#### 20.7.1 Exported Constants

#### 20.7.2 Exported Types

WorkoutScreen = this

## 20.7.3 Exported Access Programs

Name	In	Out	Exceptions
getWorkout	User, Date	Workout: Seq of ExerciseT	

### 20.8 Semantics

#### 20.8.1 State Variables

user: User

date: Date

#### 20.8.2 Environment Variables

editButton: Button object that navigates to Workout Edit Module when clicked

workout: Text object that displays the current date's workout

### 20.8.3 Assumptions

N/A

#### 20.8.4 Access Routine Semantics

getWorkout(user, date):

- transition: out := exerciseT from the date's workout in Workout Log
- exception: None

#### 20.8.5 Local Functions

N/A

#### 20.9 Workout Edit Module

#### 20.10 Uses

react

react-native

globalStyles: CSS file to change designs of project

Moment: Library is used for Dates (ex. setting date formats (YY/MM/DD))

useRoute: react file that is used to navigate between screens of project

wger: Rest API providing exercise images and names

Workout Log: Module for storing workouts Exercise T: Module representing an exercise

# 20.11 Syntax

#### 20.11.1 Exported Constants

N/A

### 20.11.2 Exported Types

N/A

#### 20.11.3 Exported Access Programs

Name	In	Out	Exceptions
setExercise	exercise: string, exerciseT		
setReps	reps N, exerciseT		
setWeight	weight: N, exerciseT		
setSets	sets: N, exerciseT		
removeExercise			
addPreviousWorkout	name: string		

# 20.12 Semantics

#### 20.12.1 State Variables

user: User

date: Date

units: lbs or kgs

workoutName: string

exercises: Seq of ExerciseT

#### 20.12.2 Environment Variables

addExerciseButton: Button object that adds blank exercise to Workout

saveButton: Saves changes to Workout Log

exitButton: Button object that leaves Workout Edit changeUnitsButton: Toggles the units from lbs to kgs and vice versa

removeExerciseButton: Deletes repective exercise from Workout Log

#### 20.12.3 Assumptions

N/A

#### 20.12.4 Access Routine Semantics

setExercise(name, exerciseT):

- transition: Adds the selected exercise name to Workout Log
- exception: None

setReps(reps, exerciseT):

- transition: Saves the selected number of reps to Workout Log
- exception: None

setWeight(weight, exerciseT):

- transition: Saves the selected weight in *units* to Workout Log
- exception: None

setSets(sets, exerciseT):

- transition: Saves the selected number of sets to Workout Log
- exception: None

removeExercise():

- transition: Deletes selected exercise from Workout Log
- exception: None

#### 20.12.5 Local Functions

# 20.13 Workout Log Module

#### 20.14 Uses

react

react-native

globalStyles: CSS file to change designs of project

Moment: Library is used for Dates (ex. setting date formats (YY/MM/DD))

useRoute: react file that is used to navigate between screens of project

wger: Rest API providing exercise images and names

# 20.15 Syntax

#### 20.15.1 Exported Constants

N/A

#### 20.15.2 Exported Types

WorkoutLog = this

### 20.15.3 Exported Access Programs

Name	In	Out	Exceptions
setName	name: string		

## 20.16 Semantics

#### 20.16.1 State Variables

user: User

date: Date

workouts: <Seq of ExerciseT, name: string>

#### 20.16.2 Environment Variables

N/A

#### 20.16.3 Assumptions

# 20.16.4 Access Routine Semantics

setName(name):

• transition: Sets the name of workout (default value is date)

• exception: None

# 20.16.5 Local Functions

# 21 Appendix