

FiTracks

Program Specification

Submitted to:

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Unique Reference:

The documents are stored in the <https://fitracks.wordpress.com> in the Project Deliverables Section or can be accessed through <http://bit.ly/FITracksDesignEngineering>.

Document Purpose:

This document is provided to show the program specification of a particular controller class of the health and fitness record management system.

Target Audience:

This document also serves its purpose for Asst. Prof. Rowena Solamo, her students, and others analyzing the data design of the application and its components.

Revision Control:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Contribution/Modification</i>
10/29/2018	Trina B. Aguilana	1.0	Made the initial document; Added Unique Reference, Target Audience, Document Purpose, Program Specification, Class, Stereotype, Method Signature, Input and Output, Tool Used and Program Logic.

Program Specification: Maintain intake records [Add]

Class: AddIntake

Stereotype: Controller Class

Method Signature: isIntakeDataComplete(String watercontainer, float amount, Date date_consumed, Date time_consumed)
NewIntake(Date date_consumed, Date time_consumed)
saveIntakeData(String watercontainer, float amount, Date date_consumed, Date time_consumed)
isIntakeDataComplete(String foodname, float amount, Date date_consumed, Date time_consumed)
NewIntake(Date date_consumed, Date time_consumed)
saveIntakeData(String watercontainer, float amount, Date date_consumed, Date time_consumed)

Input:

watercontainer - string that recognizes the container used by the user
amount - amount consumed/added
date_consumed - day, month, and year of the consumption
time_consumed - time of the day the consumption happened
foodname - string that recognizes the food consumed by the user

Output:

Intake added

Tool Used: Pseudocode

Program Logic:

FUNCTION **BOOL** isIntakeDataComplete(String watercontainer, float amount, Date date_consumed, Date time_consumed) :

FOR user **in** user_list :

IF user.watercontainer **NOT EQUALS** NULL and user.amount **NOT EQUALS** NULL and user.date_consumed **NOT EQUALS** NULL and user.time_consumed **NOT EQUALS** NULL :

return **TRUE**

ELSE **return** **FALSE**

END FUNCTION

isIntakeDataComplete(String watercontainer, float amount, Date date_consumed, Date time_consumed)- a method signature from the Entity class, Food and Water Intake Records.

```

FUNCTION BOOL NewIntake(Date date_consumed, Date time_consumed) :

    FOR user in user_list :

        FOR intake in intake_list:

            IF user.date_consumed NOT EQUALS intake.date_consumed
                AND user.time_consumed NOT EQUALS
                    intake.time_consumed :

                return TRUE

            ELSE return FALSE

END FUNCTION

```

NewIntake(Date date_consumed, Date time_consumed)- a method signature from the Entity class, Food and Water Intake Records.

```

FUNCTION saveIntake(String watercontainer, float amount, Date
date_consumed, Date time_consumed) :

```

```

    return saveIntake(String watercontainer, float amount, Date
date_consumed, Date time_consumed)

```

```

END FUNCTION

```

saveIntake(String watercontainer, float amount, Date date_consumed, Date time_consumed)- a method signature from the Entity class, Food and Water Intake Records.

```

FUNCTION BOOL isIntakeDataComplete(String foodname, float amount,
Date date_consumed, Date time_consumed) :

```

```

    FOR user in user_list :

```

```

        IF user.foodname NOT EQUALS NULL and user.amount NOT EQUALS
            NULL and user.date_consumed NOT EQUALS NULL and
            user.time_consumed NOT EQUALS NULL :

```

```

            return TRUE

```

```

        ELSE return FALSE

```

```

END FUNCTION

```

isIntakeDataComplete(String foodname, float amount, Date date_consumed, Date time_consumed)- a method signature from the Entity class, Food and Water Intake Records.

```
FUNCTION saveIntake(String foodname, float amount, Date  
date_consumed, Date time_consumed) :
```

```
    return saveIntake(String foodname, float amount, Date  
date_consumed, Date time_consumed)
```

```
END FUNCTION
```

saveIntake(String foodname, float amount, Date date_consumed, Date time_consumed)- a
method signature from the Entity class, Food and Water Intake Records.