

# FiTracks

## Program Specification

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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:***

<b><i>Revision Date</i></b>	<b><i>Person Responsible</i></b>	<b><i>Version Number</i></b>	<b><i>Contribution/Modification</i></b>
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.