

HC Monitor

Functional requirements:

1) Display HC / 7days

- 1.1) Display as graphic
- 2.2) Display as table

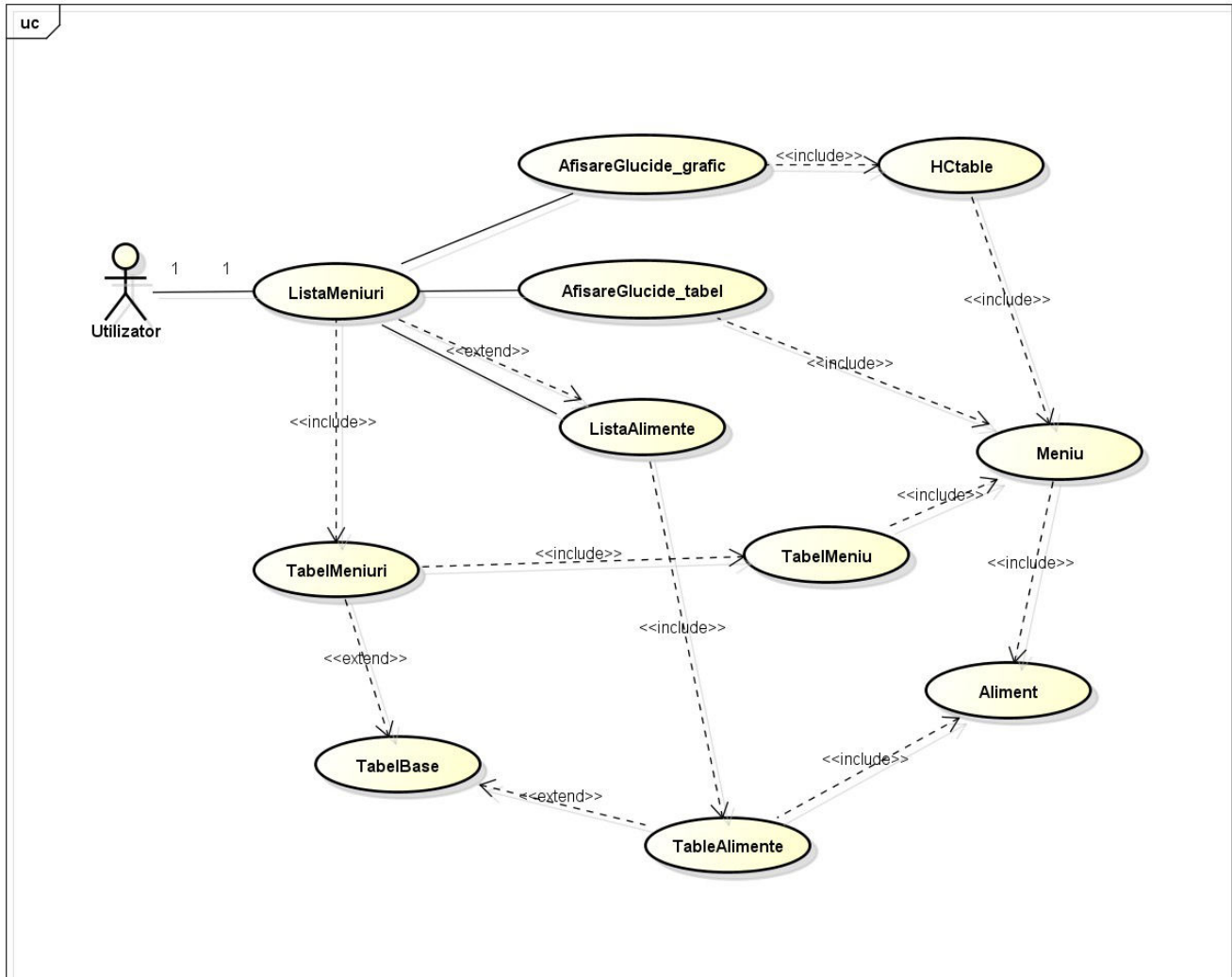
2) Modify Aliments List (Aliment Name, Category, HC per 100g, Type)

- 2.1) Display aliments
- 2.2) Add aliments
- 2.3) Delete aliments
- 2.4) Edit aliments
- 2.5) Save aliments
- 2.6) Reset aliments list

3) Modify Menus List (Menu Title, Grams, HC, Time, Date)

- 3.1) Display menus
- 3.2) Add menus
- 3.3) Delete menus
- 3.4) Edit menus
- 3.5) Save menus

Use case diagram:



Use cases description:

1.1) Display HC (graphic)

A graphic with all saved menus in the last 7 days is being displayed. Menus are colored according to the menu's HC value. (red HC > 30%, green 10% <= HC <= 30% yellow HC < 10%)

1.2) Display HC (table)

A table with all saved menus in the last 7 days is being displayed. Menus are colored according to the menu's HC value. (red HC > 30%, green 10% <= HC <= 30% yellow HC < 10%)

2.1) Display Aliments

A table with all saved aliments is being displayed (XML). An aliment is colored according to its Type (red - forbidden, green – doesn't need to be weighed, blue – needs to be weighed)

2.2) Add Aliment (**“Edit Mode” must be checked*)

Adding a new aliment is done by pressing the “Add Aliment” button (or “+”). “Add Aliment” button adds an empty row that needs to be edited. (2.4)
The list is not being saved unless you press the “Save” button.

2.3) Delete Aliment (**“Edit Mode” must be checked*)

Deleting an aliment is done by pressing the “-” button. The list is not being saved unless you press the “Save” button.

2.4) Edit Aliment (**“Edit Mode” must be checked*)

Editing is done by double-clicking on the aliment’s properties. The list is not being saved unless you press the “Save” button.

2.5) Save Aliments

After pressing the “Save” button, an XML file with all aliments is generated or overwritten.

2.6) Reset Aliments

“Reset to default” button resets the aliments list. The list is not being saved unless you press the “Save” button.

3.1) Display Menus

A table with all saved menus is being displayed. Menus are colored according to the menu’s HC value. (red HC > 30%, green 10% <= HC <= 30% yellow HC < 10%)

3.2) Add Menu

Adding a new menu is done by pressing the “Add Menu” button (or “+”). “Add Menu” button adds an empty row that needs to be edited. (3.4)
The list is not being saved unless you press the “Save” button.

3.3) Delete Menu

Deleting an aliment is done by pressing the “-” button. The list is not being saved unless you press the “Save” button.

3.4) Edit Menu

Editing is done by double-clicking on menu. The list is not being saved unless you press the “Save” button.

3.5) Save Menus

After pressing the “Save” button, an XML file with all menus is generated or overwritten.

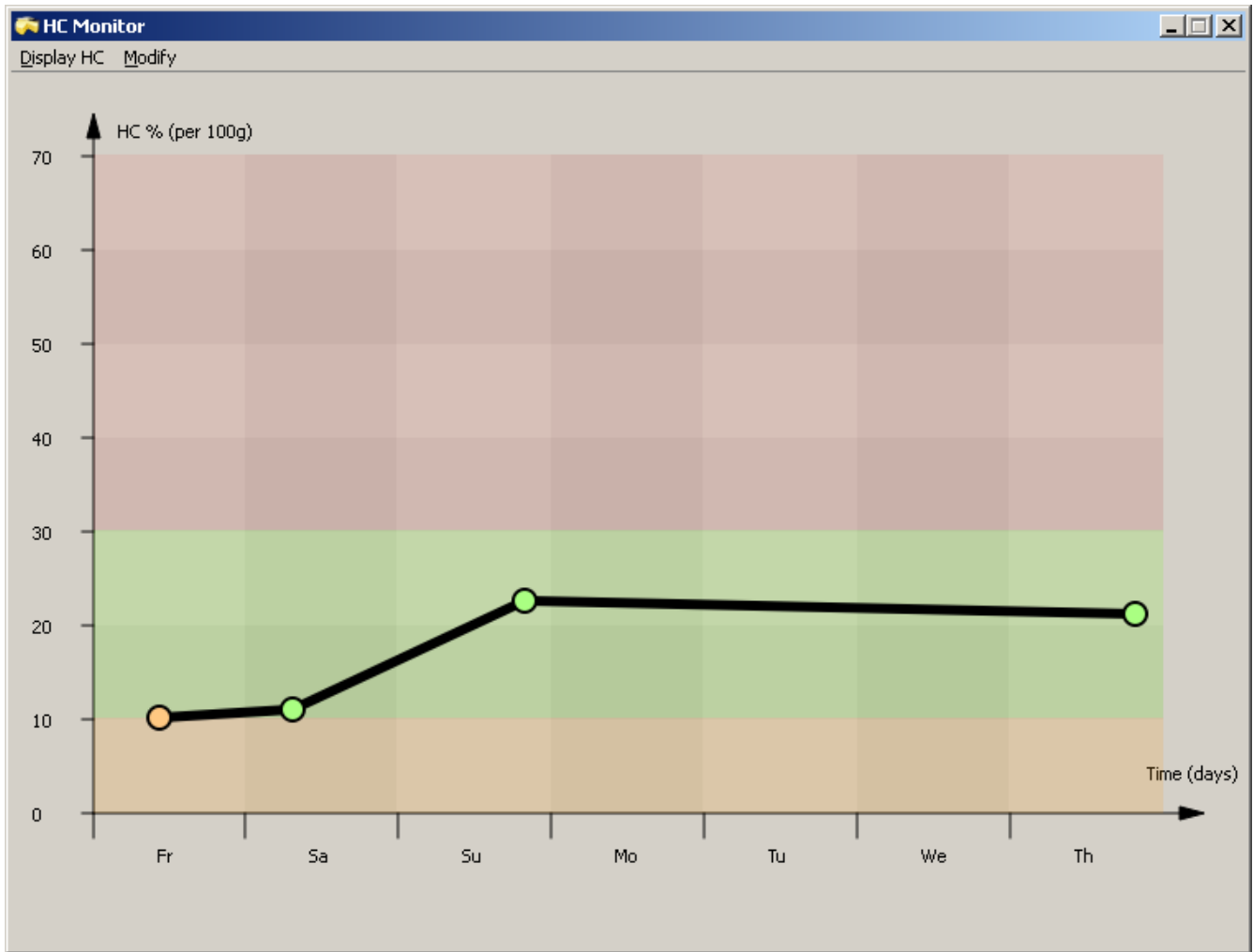
Requirements tracking matrix: Use cases/Functional requirements

	Use cases												
	1,1	1,2	2,1	2,2	2,3	2,4	2,5	2,6	3,1	3,2	3,3	3,4	3,5
1,1	D												
1,2		D											
2,1			D										
2,2				D									
2,3					D								
2,4						D							
2,5							D						
2,6								D					
3,1									D				
3,2										D	R		
3,3										R	D		
3,4												D	
3,5													D

GUI: Main Menu



Display HC window (Graphic)



Display HC window (table)

	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
0:00							
2:00							
4:00							
6:00		Breakfast_1 HC: 11 %					
8:00							
10:00	Breakfast_0 HC: 10 %						
12:00							
14:00							
16:00							
18:00			Breakfast_2 HC: 22.5 %				Breakfast_3 HC: 21 %
20:00							
22:00							

Saved menus window

The screenshot shows a software window titled "HC Monitor" with a menu bar containing "Display HC" and "Modify". Below the menu bar are three buttons: "Delete All Menus", "Add Menu", and "Save". The main area contains a table with the following data:

	Menu Title	HC % per menu	Grams	Time	Date		
1	Breakfast_0	10	250	10:03:48	Fri Jul 25 2014	-	+
2	Breakfast_1	11	250	07:51:12	Sat Jul 26 2014	-	+
3	Breakfast_2	22.5	700	19:52:52	Sun Jul 27 2014	-	+
4	Breakfast_3	21	200	19:56:34	Thu Jul 31 2014	-	+

Add menu window

Add Menu [?] [X]

Delete All Aliments Add Aliment Save

Menu Title 7:58 PM 7/31/2014

Grams	Aliment Name	Category	HC % per Grams	Type	HC		

Total HC: 0%

Aliments list

The screenshot shows a software window titled "HC Monitor" with a menu bar containing "Display HC" and "Modify". Below the menu bar, there is a checkbox for "Edit Mode" and three buttons: "Reset to Default", "Add Aliment", and "Save". The main area contains a table with the following columns: "Aliment Name", "Category", "HC per 100g", "Type", and two empty columns with minus and plus signs. The table lists 15 items, all categorized as "Vegetables" and "Unweighted".

	Aliment Name	Category	HC per 100g	Type		
1	Raw Pumpkin	Vegetables	5%	Unweighted	-	+
2	Green Bean	Vegetables	5%	Unweighted	-	+
3	Mushroom	Vegetables	5%	Unweighted	-	+
4	Cabbage	Vegetables	4%	Unweighted	-	+
5	Lettuce	Vegetables	4%	Unweighted	-	+
6	Celery	Vegetables	4%	Unweighted	-	+
7	Turnip Cabbage	Vegetables	4%	Unweighted	-	+
8	Tomato	Vegetables	4%	Unweighted	-	+
9	Eggplant	Vegetables	3%	Unweighted	-	+
10	Artichoke	Vegetables	3%	Unweighted	-	+
11	Cauliflower	Vegetables	3%	Unweighted	-	+
12	Scallion	Vegetables	3%	Unweighted	-	+
13	Green Capsicum	Vegetables	3%	Unweighted	-	+
14	Andive	Vegetables	2%	Unweighted	-	+
15	Cucumber	Vegetables	2%	Unweighted	-	+