Requirements

* R1: The system must allow the user to add an item with various attributes including calories, sugars sodium, etc.
  + R1.1: The system must allow the user to add the item manually, inputting the values for the various attributes themselves.
  + R1.2: The system must allow the user to add items they have previously used, either already on the current items list or not.
  + R1.3: The system must allow the user to add/search items from a database to add to the calculator.
* R2: The system must allow the user to edit the values of the various attributes on items or delete the item from the list entirely.
* R3: The system must allow the user to set a total goal in which they set target values they wish to meet.
* R4: The system must also allow the user to edit the target values of any goal they have set or delete the goal from the calculator entirely.
* R5: The system must make a comparison of the sum of the items the user has entered and the user’s goal and provide the user feedback if they are on track to meet they’re goal.

Derived Use Cases

* UC1: Add item (from R1)
* UC2: Add previous item (from R1.2)
* UC3: Search item on database (from R1.3)
* UC4: Edit item (from R2)
* UC5: Delete item (from R2)
* UC6: Add goal (from R3)
* UC7: Edit goal (from R4)
* UC8: Delete goal (from R4)

Requirements/Use Case Matrix

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Weight | UC1 | UC2 | UC3 | UC4 | UC5 | UC6 | UC7 | UC8 |
| R1 | 3 | X | X | X |  |  |  |  |  |
| R2 | 1 | X |  |  | X | X |  |  |  |
| R3 | 2 |  |  |  |  |  | X |  |  |
| R4 | 1 |  |  |  |  |  | X | X | X |
| R5 | 1 | X |  |  |  |  | X |  |  |
|  | Score | 5 | 3 | 3 | 1 | 1 | 4 | 1 | 1 |

Abstract Use Cases

High Level Use Cases

Expanded Use Cases