

The Fridge

Members:

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1. Software requirement specification

1. Introduction

1. Aim of the document

The purpose of the document is to analyze every feature of the system.

We shall list all the possible usages of the system, its goals, the target audience, hardware and software requirements, so as to be able to provide a better understanding of the project.

Furthermore, the document explains the ways in which our ideas shall be implemented by the developers.

2. Overview of the defined system

The sections of the document allow us giving a detailed description of the project, specifying system's characteristics from every point of view.

The section 2 provides the user's viewpoint of the product. The functional requirements, that make explicit what the system shall do, are shown in section 3. Finally, the section 4 presents an analysis of product's use cases.

3. Operational settings

The system has been designed to work both as a web and laptop/stand-alone application.

4. Related systems, with pros and cons

Svuotafrigo – cerca ricette dagli ingredienti:

Our pros: our system also provides a way to store food and include an expiry date and ensures persistence.

Our cons: our system provides a less number of recipes.

*Freddy*fridge* – frigo manager e scadenza cibi:

Our pros: our system provides the possibility to find recipes online. Our system also sends a notification to the user when a food expires.

Our cons: our system does not provide a tutorial.

Dispensa:

Our pros: our system provides a graphical interface to visualize the food inserted by the user.

Our cons: nothing.

2. User stories (Mattia Di Battista, Tiziano Taglienti, Valerio Cristofori)

- As a user, I want to change my current *fridge with another one in my *list, so that I can access to that one.
- As a user, I want to remove food from current *fridge, so that all *family members know about it.
- As a user, I want to set up the number of recipes when searching for recipes, so that I can have that exact number of results.
- As a user, I want to exclude ingredients when searching for recipes, so that I can choose between recipes without those ingredients.
- As a user, I want to rename the *fridge of which I am admin, so that I can distinguish it in my *list.
- As a user, I want to view the title and the ingredients of the recipes provided by the research, so that I know what to cook.
- As a user, I want to add food, its quantity and its expiration date to my *fridge, so that all *family members know about it.
- As an admin, I want to share my *fridge with other users through invitation by username or email, so that they can add my *fridge to their *list.

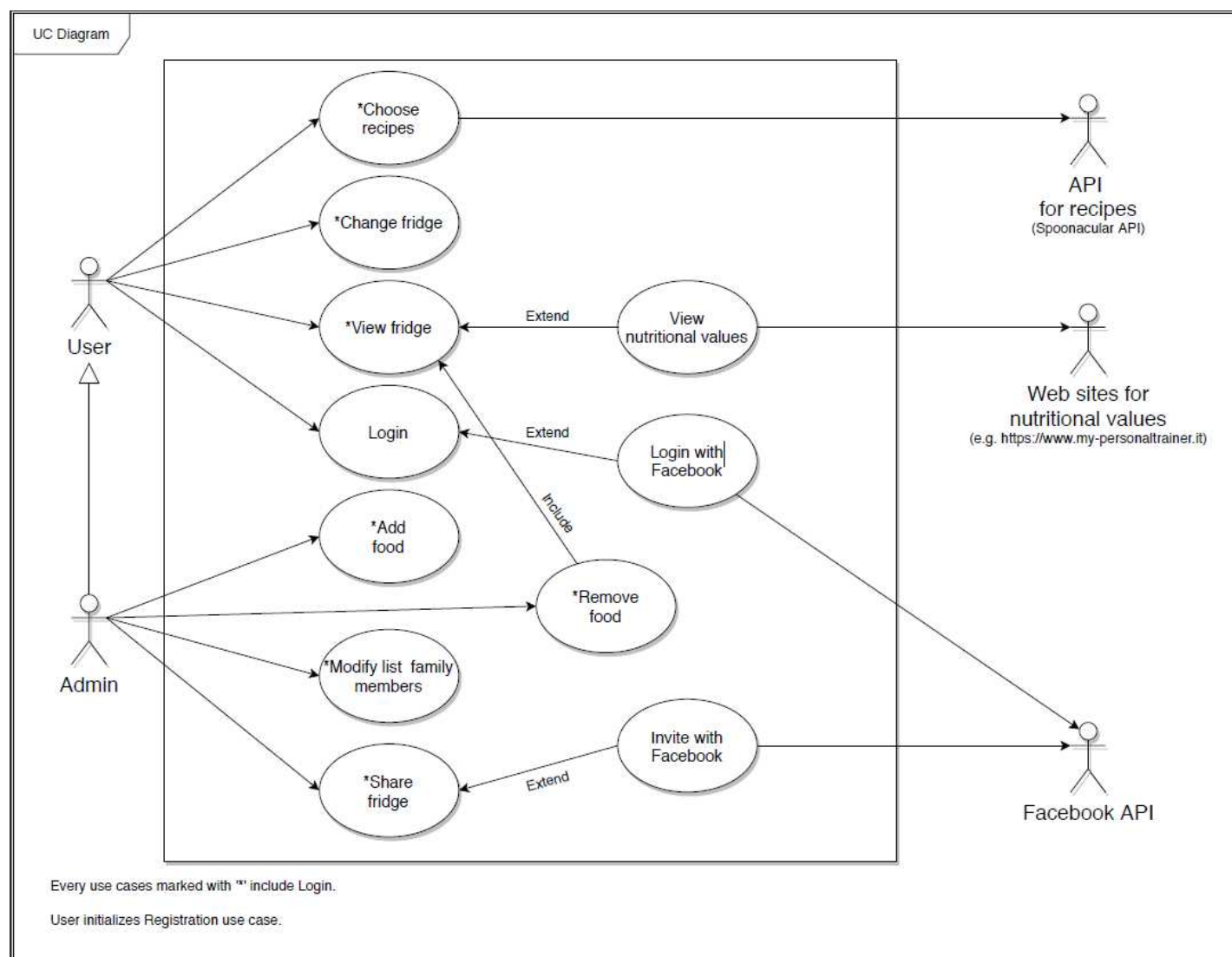
- As a new user, I want to register and become admin of a new empty fridge, so that I can do anything that the system provides me.
- As a user, I want to set the expiration date of a food, so that I can remember that date through a notification.
- As a user, I want to know the nutritional values of any food in current *fridge, so that I can monitor the calories I take.
- As a user, I want to view the food in my *fridge, so that I know what I need to buy.
- As a user, I want to leave a *fridge, so that I can better organize my *list.
- As a user, I want to see my profile, so that I can modify my credentials.
- As an admin, I want to remove *family members, so that I can prevent them from accessing the *fridge.
- As a user, I want to create a new *fridge, so that I can add it to my *list and be its admin.
- As an admin, I want to appoint a *family member as an admin, so that s/he can do what an admin can do.
- As a user, I want to be linked to the chosen recipe's website, so that I can learn how to cook that.

3. Functional requirements (Mattia Di Battista, Tiziano Taglienti, Valerio Cristofori)

- The system shall provide from 1 to 5 (number chosen by the user) recipes, which are made with 3 ingredients from the *content (randomly chosen).
 - The system shall display the title and the ingredients of the recipes.
 - The system shall not provide recipes if there's no *content.
- The system shall provide to the user a way to add food to the *content.
- The system shall allow all the users of a *fridge to remove a food from the *content.
- The system shall provide the logout.
- The system shall allow the admin to invite users, in order to share her/his *fridge.
 - The system shall allow the admin to send invitations by email address, by username or by Facebook.
 - The system shall provide a way to accept or reject an invitation received.
 - The system shall allow the inviting user to attach a message with the invitation.

- The system shall allow the admin to set the expiration date of a food when it is added to the *fridge.
 - The system shall provide a calendar where the user can set the expiration date.
- The system shall provide a way to view the *content.
- The system shall allow the user to select a *fridge from the *list in order to change the current one with it.
- The system shall allow the user to set up the recipes' search.
 - The system shall allow the user to choose the number of recipes to show, from 1 to 5.
 - The system shall allow the user to exclude ingredients in order to find out recipes without those ingredients.
- The system shall provide the login with Facebook.
- The system shall send a notification to the new admin when s/he is appointed.
- The system shall display to the users their *list.
- The system shall provide to the admin a way to rename the *fridge.
- The system shall provide to the admin a way to remove *family members.
- The system shall allow a user to create a new *fridge.
 - The system shall make the user who creates the *fridge its admin.
- The system shall provide to the users a way to leave any *fridge in their *list.
- The system shall allow the user to modify her/his credentials.
- The system shall display the navigation bar in every GUI.
- The system shall allow the user to delete her/his account.
- The system shall allow the user to reach the nutritional values website by clicking on a food.
- The system shall allow the admin of a *fridge to appoint other *family members as admins.
- The system shall send in-app notifications to *family members when a food in their *fridge expires, according to the date set by the user.

4. Use cases: overview diagram



5. Dictionary

**family member*: one of the users sharing the same fridge.

**fridge*: the resource which is shared by the family members. It contains food and it can be modified only by the admin.

**content*: every food that's in the fridge.

**list*: the list of all the fridges of which a user is a member (or admin).