Requirements for Recip.me project

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1 Introduction

1.1 Overview

Recip.me is a website that allows users and food fans to communicate with each other by sharing recipes and rate them.
Recip.me distinguishes itself from the other food web-services for the openness and the wide choice that it offers product-wise.
The project is going to expand itself in order to welcome food providers and producers.

1.2 Goals and Objectives

The main goals of this application will be to develop a recipe database that will provide the following:

1. Collect recipes that the users will upload.
2. Allow users to submit feedback and change the recipes.
3. Allow users to order the products directly from the website.
4. Allow users to create a personal customed account.
5. Allow user to change temporarily the ingredients of a recipe while performing the order.

1.3 Scope

Recip.me will collect recipes into a SQL server and users through the websites will be able to retrieve it and rate it.
Also every user will have its own account saved by the server.
The website will also collect and redirect the orders to a certified food provider.

1.4 Definitions

Use case – describes a goal-oriented interaction between the system and an actor. A use case may define several variants called scenarios that result in different paths through the use case and usually different outcomes.

Scenario – one path through a use case

Actor – user or other software system that receives value from a use case.

Role – category of users that share similar characteristics.

Product – what is being described here; the software system specified in this document.

Application – what is being described here; the software system specified in this document.

Project – activities that will lead to the production of the product described here. Project issues are described in a separate project plan.

1.5 Document Conventions

No document conventions needed.

1.6 Assumptions

In order to use the website the user must have a functioning browser and a proper internet connection.

2 General Design Constraints

2.1 Product Environment

The product will be hosted by altervista.org and the data will be stored into an SQL server.

2.2 User Characteristics

In order of increasing priority, the following categories of users can be distinguished for this website:

- Website Administrators, who will control and manage the website in order to keep it up and running.
- Users, who will upload and view recipes.
- Guests, who will view the recipes.

2.3 Mandated Constraints

The following constraints have been identified for this project:

- The application needs to be written in HTML, CSS, PHP and SQL.

2.4 Potential System Evolution

The system will probably welcome food providers and producers and it will let the user decide which one they'll order from.

3 Nonfunctional Requirements

3.1 Operational Requirements

- The application has to allow different users to view and submit recipes, while allowing them to order products and rate the previously mentioned recipes.

3.2 Performance Requirements

No performance requirements have been identified for this application.

3.3 Security Requirements

Safe connections and data storage will be implemented in order to ensure privacy.

3.4 Safety Requirements

No safety requirements won't be implemented.

3.5 Legal Requirements

Data will be gathered only with the consent of the user and it will be stored with the utmost security and discretion. The website will follow the current privacy law.

3.6 Other Quality Attributes

The application also needs to possess the following attributes:

- The website will adapt the recipes to the users information entered during the registration process.

3.7 Documentation and Training

A small and quick tutorial will be presented to the users after the registration process.

3.8 External Interface

3.8.1 User Interface

The registration and account settings will be modified through a simple form implemented through HTML. Recipes will also use forms to be submitted and consequently posted.
Comments will be posted through a form under the recipe page.

3.8.2 Software Interface

The web pages will be hosted and managed through altervista.org.

4 System Features

4.1 Feature: Capture home data

4.1.1 Description and Priority

Cost: medium
Risk: low
Value: high

4.1.2 Use Case: Enroll Home

Actors: Data entry clerk

Description: This use case begins when a client has completed a Healthy Homes survey.

Basic Path:

1. The data entry clerk verifies that the home can be enrolled in the program, and then enters all the information on CRF-01 into the application.
2. Once all the data has been entered, the data entry clerk prints out a report showing all the information entered on that home, and that information is sent to Healthy Homes Network for approval.
3. When the response is received from Healthy Homes Network the data entry clerk selects the appropriate home enrollment record in the application and updates it with the data received from Healthy Homes Network.

Alternate path:

1. If Healthy Homes Network fails to approve the house, in step three, above, the data entry clerk should inactivate the home's record.

4.1.3 Additional Requirements

It is assumed that the data entry person will verify, by visually checking the form, that the home qualifies for the research study. Per Kevin Kennedy a home qualifies for enrollment if the home has three "Yes" responses on the enrollment survey form.

4.1.4 Description and Priority

Cost: medium
Risk: low
Value: high

4.1.5 Use Case: Look up home

Actors: Data entry clerk

Description: This use case begins when a clerk would like to find a home that has been entered into the application.

Basic Path:

1. The data entry clerk enters the criteria that he/she would like to use to search for a home and submits them to the program. These fields would include the home address, house number, homeowner's name, and landlord's name.
2. The program returns the list of homes that meet those criteria.

Alternate path:

1. If no homes are returned by the program in step 2, the clerk would be presented with a dialog box that says "No homes found".

4.1.6 Additional Requirements

N/A

4.1.7 Description and Priority

Cost: medium
Risk: low
Value: low

4.1.8 Use Case: Inactivate home

Actors: Data entry clerk

Description: This use case begins when a clerk would like to disable a home from showing up in the application.

Basic Path:

1. The user looks up the house whose health information he/ she would like to update either by supplying the home address or the house's number.
2. The user opens up that house's record.
3. The data entry clerk updates the Active/ Inactive flag for this record marking it as inactive.

Alternate path:

1. If no homes are returned by the program in step 1, the clerk would be presented with a dialog box that says "No homes found".

4.1.9 Additional Requirements

N/A

4.2 Feature: Capture health data

4.2.1 Description and Priority

Cost: medium
Risk: low
Value: high

4.2.2 Use Case: Enter Health Information

Actors: Data entry clerk or Community Health Liaison

Description: This use case begins after a house has been approved for the Healthy House program, and health information on that house needs to be entered.

Basic Path:

1. The user looks up the house whose health information he/ she would like to update either by supplying the home address or the house's number.
2. The user opens up that house's record.
3. The user enters all the information from CRF's – 2, 9, 10 and 14 into the database.

Alternate path:

1. If a child in that home has asthma, the user should also enter all the information from CRF-11 into the database in step 3, above.

4.2.3 Additional Requirements

A field would need to be introduced at the house level to track whether or not a child in a given home has asthma. Having such a field would enable the application to keep track of when to prompt for CRF-11.

4.2.4 Description and Priority

Cost: medium
Risk: medium
Value: medium

4.2.5 Use Case: Edit Health Information

Actors: Data entry clerk or Community Health Liaison

Description: This use case begins after a house has existing health information i.e. CRF 2, 9, 10, 11 or 14 in the application, and that health information needs to be updated.

Basic Path:

1. The user looks up the house whose health information he/ she would like to update either by supplying the home address or the house's number.
2. The user opens up that house's record.
3. The user selects the appropriate CRF that he/ she would like to update, and updates that information.

Alternate path:

1. If the user tries to edit information on a house that is not in the database, the application will return an error and prompt him/ her to enter information on the house first.

4.2.6 Additional Requirements

N/A

4.3 Feature: Capture Environmental data

4.3.1 Description and Priority

Cost: high
Risk: medium
Value: medium

4.3.2 Use Case: Enter Environmental Information

Actors: Environmental research specialist

Description: This use case begins after a house has been approved for the Healthy House program, and environmental information on that house needs to be entered.

Basic Path:

1. The user looks up the house whose environmental information he/ she would like to enter either by supplying the home address or the house's number.
2. The user opens up that house's record.
3. The user enters all the information from CRF 17, 18, 19, and 23 as well as the forms below into the database.
    a. Home chemical inventory form
    b. Environmental survey – Indoor air quality 8386
    c. Environmental survey – Indoor air quality 8550
    d. Environmental survey – Onsite particles ARTI HHP6
    e. Environmental survey – Onsite particles TSI Ptrack (Refer to Appendix B).

Alternate path:

N/A

4.3.3 Additional Requirements

N/A

4.3.4 Description and Priority

Cost: medium
Risk: medium
Value: high

4.3.5 Use Case: Edit Environmental Information

Actors: Environmental research specialist

Description: This use case begins after a house has been approved for the Healthy House program, and environmental information on that house needs to be updated.

Basic Path:

1. The user looks up the house whose environmental information he/ she would like to update either by supplying the home address or the house's number.
2. The user opens up that house's record, and is presented with a list of surveys.
3. The user selects and opens the survey with the desired survey collection date and number.
4. The user updates the environmental survey with the new information.

Alternate path:

1. If in step 3, the user cannot find the survey with the desired collection date, the user should be given the option of creating a brand new survey.
2. Run use case "Enter Environmental Information."

4.3.6 Additional Requirements

N/A

4.3.7 Description and Priority

Cost: medium
Risk: medium
Value: medium

4.3.8 Use Case: Enter Lab Information

Actors: Environmental research specialist

Description: This use case begins after a house has lab information that needs to be updated in the database.

Basic Path:

1. The user looks up the house whose lab information he/ she would like to update either by supplying the home address or the house's number.
2. The user opens up that house's record.
3. The user enters all the information from CRF 20 and 21 into the database.

Alternate path:

N/A

4.3.9 Additional Requirements

N/A

4.4 Feature: Running Reports

4.4.1 Description and Priority

Cost: Medium
Risk: Low
Value: High

4.4.2 Use Case: Run Health Information Report

Actors: Any application user

Description: This use case begins when any user of the application would like to run a health information report on any given home.

Basic Path:

1. The application user will select the home for which the report is to be run either by entering the home address or the home's identification number.
2. Once the record is selected the report will run as a print preview, and the user will have the option of printing the report to the computer's default printer.

Alternate path:

1. N/A.

4.4.3 Additional Requirements

N/A.

4.4.4 Description and Priority

Cost: Medium
Risk: Low
Value: Medium

4.4.5 Use Case: Run environmental survey audit report

Actors: Any application user

Description: This use case begins when any user of the application would like to run a report showing all environmental surveys completed within a certain period.

Basic Path:

1. The application user will enter a starting and ending date range for the report.
2. Once those dates have been submitted to the application a report will be run to select all surveys that were collected within the specified date range. The report

will run as a print preview, however, the user will have the option of printing the report to the computer's default printer.

Alternate path:

1. If no surveys qualify for the specified date range, the program should return a blank sheet in step 2, above.

4.4.6 Additional Requirements

N/A.

5 Appendices

5.1 Appendix A