 

INFOSYS 220

Assignment 2

## use case modelling

Semester 1 2017 Individual Assignment Template

## Requirements Definition Report

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| **Functional Requirements:** |
| **1. Food shopping profile system** |
| 1.1 Customers need to setup a profile before they start using the system. Certain attributes will be taken into account into the system. For example, number of family members, dietary preference, preferred store and delivery preference. |
| 1.2 Customers should be able to maintain their information about their profile |
| **2. Food shopping list management** |
| 2.1 Customers can log update, view and delete their shopping list from the system |
| 2.2 Customers preferences on their store information can be managed any time in system |
| 2.3 A weekly shopping report can be requested at any time which will be generated through the system |
| **3. Delivery services** |
| 3.1 Payment for the shopping list is validated then customers are sent their delivery details if accepted |
| 3.2 Customers can track the delivery process of their product in the system |
| 3.3 Administrators should be able to edit, update and delete delivery information before the scheduled delivery date of their goods. |
| **4. Recipe organiser services** |
| 4.1 Customers can select within in the system a recipe then manage the recipe they have selected |
| 4.2 Recipes are selected from the extensive library of existing recipe on the database |
| 4.3 The system will convert the recipe ingredients into a shopping list for the customers to purchase |
| 4.4 Administrators can manage the library of recipes in the system at any given time |
| **5. Product management** |
| 5.1 Administrators should be able to verify the pricing of products and quality of the stores that are registered in the system. |
| **Non-functional Requirements:** |
| **1. Operational** |
| 1.1 Due to the budget the mobile app will only be offered on android and IOS devices. |
| 1.2 Customers and administrators should be able to manage the system without the need of a active internet connection. Any changes made without an internet connection will be synchronized when a internet connection is connected |
| **2. Interface Requirements** |
| 2.1 To make the system more user friendly and identify products easier the system will have large images and a logical display order. |
| 2.2 A central menu called ‘Easy Shopping’ will be where the customers profile information will be stored and preferred recipe information will be managed under for easier usability |
| **3.Performance** |
| 3.1 The system will automatically update the pricing of products to the selected stores on a daily basis |

## ../../../../../Downloads/Untitled%20Diagram.jpgUse Case Model

## Use Case Documentation

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| --- | --- | --- |
| **USE CASE # 8** | Maintain shopping list | **Priority:** High |
| **Goal in Context** | The system will log, update, view and delete their shopping list for the user. | |
| **Trigger event &**  **Type** | User decides to maintain recipe list  External | |
| **Primary actor(s) &**  **Secondary actor(s)** | Primary: User  Secondary: None | |
| **Related use cases** | **Extend** UC#9 Shopping report (Extension)  **Extend** UC#10 Manage selected recipe (Extension) | |
| **Preconditions** | User must be logged into the system  User has to have a selected recipe | |
| **Success post**  **condition** | User will be able to log, update, view and delete their shopping list | |
| **Failure post**  **condition** | User will not be able to log, update, view and delete their shopping list. | |
| **NORMAL FLOW steps (NF)** | **Action** | |
| NF1 | User has to select a recipe | |
| NF2 | The system presents the user with the option to view their shopping list | |
| NF3 | The system will show the selected recipe ingredients in a list format with a numerical value next to each product and photo. | |
| NF4 | Once the user has viewed their shopping list the system will present an option if they wish to delete or update any items on their list. | |
| NF5 | The user selects update | |
| NF6 | The system will present a list view of the products they can add to their existing shopping list | |
| NF7 | To add items the user presses the ‘+’ button which will be displayed next to the product photo. The user adds an item | |
| NF8 | The system prompt the user that their shopping list has been updated | |
| NF9 | The system displays the sub total of the total cost of ingredients | |
| NF10 | The system displays a log of the history of the products the user has bought and asks the user if they wish to see a weekly generated report | |
| NF11 | The user selects no | |
| NF12 | UC ends | |
| **ALTERNATE FLOW steps (AF)** | **Action** | |
| AF1.a | The system checks to see if the user has selected a recipe | |
| AF1.a.1 | If the user has not The system takes them UC#10 where you manage your recipes to reselect a recipe | |
| AF1.a.2 | If the user has selected one the system goes to NF2 where the shopping list is viewed | |
| AF4.a | The system presents an option to either delete or update the shopping list | |
| AF4.a.1 | The user selects delete | |
| AF4.a.2 | Proceed to NF9 | |
| AF7.a | User updates nothing on the shopping list | |
| AF7.a.1 | Proceed to NF9 | |
| AF10.a | The system will ask the user if they want to see a weekly generated report from UC#9 | |
| AF10.a.1 | The user selects yes then UC#9 executes and shows the products the user has purchased over a weeks periods | |
| AF10.a.2 | UC ends | |
| **EXCEPTION FLOW steps (EF)** | **Action** | |
| EF#3.a | Blanks images are being shown in the view list option | |
| EF#3.a.1 | The system informs the user and recommends to restart the application | |
| EF#7.a.2 | UC ends | |
| **Non-functional requirements** | Stock level and pricing must be constantly updated. Easy to read and photos, for the products, so the user knows what they are buying. Providing a secure/reliable and safe application for both platforms which is stable on Android and IOS devices. | |

## Activity Diagram

