**MINISTRY OF EDUCATION AND TRAINING**

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**FPT UNIVERSITY**

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| **Capstone Project Document** |
| **Remindful Refrigerator Application** |

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| **Capstone Project Code** | **RRA** |

Ho Chi Minh City, January 04, 2016

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Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| Name | Definition |

# Project Information

* Project name: Remindful Refrigerator Application
* Project code: RRA
* Product type: mobile application + web
* Start date: 04 /01/2016
* End date:

# Introduction

In this document, we introduce a solution for tracking food in refrigerator. Almost every family has a refrigerator with a lot of food inside. But they cannot remember everything, especially petty things such as expiry date of food. Based on our analysis and our own experiences, we think of a solution for every people to manage their food easier.

Remindful Refrigerator Application (RRA) is built to solve current problem. RRA is convenient to manage information of all food in fridge, checking which food is expiring and notify to the user so that they can use it earlier instead of throwing it away. We also suggest some recipes which can be made with what the user have in their fridge.

This document also describes our working process in four months, includes our perspective in the system, component design, detailed core workflows. We hope our solution will help resolve the problems that everyone can face to.

# Current Situation

About user’s behavior: Many people prefer to buy a lot of food by once and store them in their fridges for saving time. This behavior causes them to get confused about which food/ingredients they are having, their expired date and how to cook with them.

Current solutions in the market: Samsung introduced a smart refrigerator product, which uses Android to store inside food’s information. However, those features are attached into Samsung’s own product, which means user have to buy a whole new fridge if they want to use the management function. Besides, its interface is inconvenient for users, as the inputting keyboard is huge and slowing down typing. One more problem is users will have difficulties interact with the product from distance, as they cannot bring their fridge along with them.

# Problem Definition

There are disadvantages of current situation:

* With a lot of food in the fridge, people sometimes do not remember or care about the expiration but keep using those food. Using expired food may affect to people heath, and even if they do not use them, it also be a waste.
* People may be confused with a lot of food and ingredients. They do not know what or how to cook with those food.

# Proposed Solution

According to the growth of smart phone, we proposed a solution is to build a mobile application called “Remindful Refrigerator Application” (or shortly RRA). RRA includes a mobile app and an admin panel with following functions:

## Feature functions

* + Add food: user can add new food to their account using their smart phone. These food will be save into system database.
  + Search recipes: according to food that user have in fridge, they can manually search for appropriate recipes when they need.
  + Make notification: with expiring food, system will send notification to user.
  + Suggest recipes: with expiring food, system will give some recipes that user can make with that food.

## Advantages

* User can easily keep track on their food. They can know which food should be used first and how to use it, too.

## Disadvantages

# Functional Requirements

Functional requirements are listed as below:

* Mobile app:
  + New account/Login
  + Add new food
  + Get notification
  + Search recipes
  + Add recipes to favorite list
* Admin panel:
  + Input new resources website
  + View report
* Scheduler:
  + Send notification
  + Make suggestion
  + Parse recipes
  + Create report

# Roles and Responsibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Full name | Role | Position | Contact |
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Table 1- Roles and Responsibility