

# **Lanna Cooking Recipe on Mobile Project Proposal**

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**(4 October 2013)**

# Abstract

At present, there are many applications about cooking food recipe. Their applications are provide only how to cook and what is needed ingredient for cooking, but the problem is their application are not providing about what ingredient's description is because some user may be not know some ingredient's for cooking food. Another problem is where to find ingredient because user do not know where is the place to find some food's ingredient. So this application can help the user to save their time to prepare food and make more understand about ingredient. In addition, this application requires a mobile phone on android operation system. This application also uses Google map API to identify the location of ingredient. Moreover, this application is based on Lanna food that called "Lanna Cooking Recipe on Moblie".

# Table of Contents

Chapter One   Introduction and Background .....	8
Chapter Two   Literature Review .....	9
2.1 Business Review .....	9
2.2 Business tools/software Review .....	10
2.3 Technology Review .....	13
2.4 Development Tools Review .....	15
Chapter Three   Quality Standard.....	18
3.1 ISO29110 for Very Small Entity (VSE) .....	18
3.1.1 Project Management process .....	18
3.1.2 Software Implementation process .....	18
Chapter Four   Project Plan .....	19
4.1 Motivation.....	19
4.2 Aims and Objectives .....	20
4.3 Deliverables and Limits .....	21
4.3.1 Deliverables .....	21
4.3.2 Limits .....	21
4.4 Schedule & Milestones .....	22
Chapter Five   References .....	27

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	6 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

# Chapter One |

## Introduction and Background

Nowadays, there are many applications about food recipe. Their applications have some problems because they are not providing where user can get the needed ingredients for cooking. So it makes user waste of time and money. Another problem is some user does not know what an ingredient is. Although, in various food recipe applications provide what ingredients list is a need for cooking but it has no description and picture about food ingredients. There reason make user is a misunderstanding and confusing. So this application is the necessary thing to produce for solving the problem. In addition, this application base on Lanna food recipe because we would like to encourage Lanna food to be popular in Thailand.

Today technology is very important to our life. Once technology that almost everyone has been a mobile phone. There becomes to be a part of people life. At present, mobile phone can do many things such as take a photo, listen music and contain many interesting application that can help people life is more comfortable. So this application develops the mobile application on android which is one of operation system on mobile because android can develop for free and has much knowledge information. Moreover, this application using Google Map API for getting identifies location map and Facebook API to easy to register to this application.

The goal of this application is to develop application on mobile that can help people reduce preparation food because they will know where is the place that sell ingredients that the user need, make misunderstand about ingredients. Moreover, this application provides only user to make a place that can sell food ingredients by individuals. Finally, we hope that this application be useful for people who interested in cooking food.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	7 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

# Chapter Two |

## Literature Review

### 2.1 Business Review

#### *2.1.1 Overview*

Lanna Cooking Recipe on Mobile (Lanna Cooking) is an android application for smartphone that using android operating system and use Web-Service to store and retrieve data from database. It is an application that helping users to makes Lanna foods. This application provides the user knows the location that sell food's ingredient. Their offer users to create the ingredient locations store that sell food's ingredient to other users via Google API and Facebook API. Another one, the application provide users add to shopping list to store the list of ingredients in each menu and also calculate amount of needed ingredients in each menu up to 3 menus.

#### *2.1.2 Target*

The main target of this application is everyone who interested in cooking the foods included who want to find food's ingredient and save shopping time. They should have smartphone and Lanna Cooking application for using it.

#### *2.1.3 Benefit*

- User can get comfortable to use this application.
- Users can interact with applications.
- Users can know the feature of each Lanna food's ingredient.
- Users can create the selling food's ingredient location to other users.
- Users can remember the list of food's ingredient when shopping.
- Application is easy to use and understand for the users.

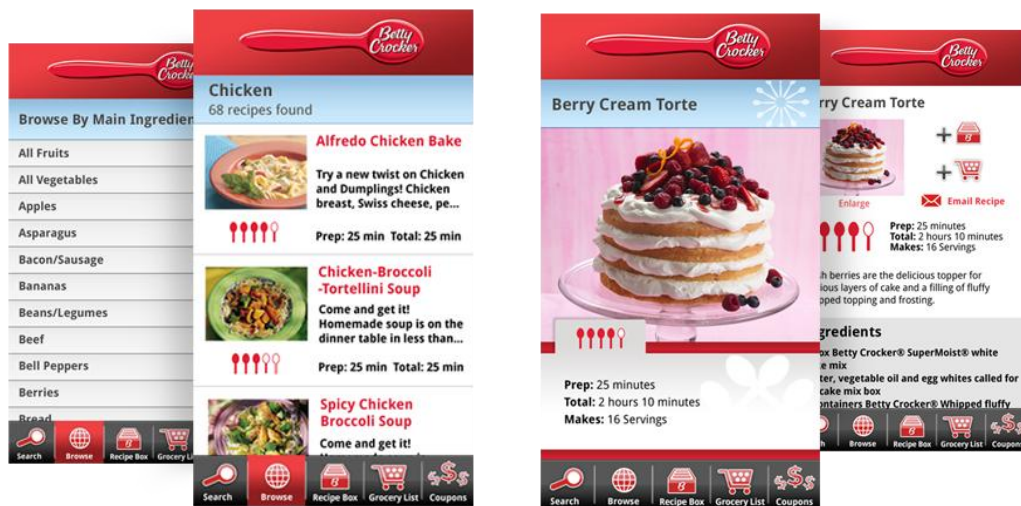
Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	8 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013



## 2.2 Business Tools/Software Reviews

### 2.2.1 Betty Crocker Mobile Cookbook<sup>[1]</sup>

Betty Crocker Mobile Cookbook is a cook recipe application. This FREE application provides more than 2,500 recipes at your fingertips, and it is fully loaded on your Android device. So it does not require a wireless or 3G connection. Breakfast or dinner appetizer or dessert, you are seconds from a fabulous recipe wherever you are. The Betty Crocker Mobile Cookbook is simple and easy to use. It provides many features are Recipe Search, Ingredient Search, Recipe Detail with Photos, Favorites and etc.



**Figure 1: Betty Crocker Mobile Cookbook Graphic User Interface**

#### - **Pros**<sup>[2]</sup>

- The system provides Smartly Search function.
- The system provides intensive information Recipe Detail with Photos.
- The system provides Save Favorite Recipes function and can access them anywhere.
- The system provides make your shopping list function.
- Simple and easy to use.

#### - **Cons**

- No interaction with a wireless or 3G connection.
- No interaction with user.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	9 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

### 2.2.2 Chef-Book<sup>[3]</sup>

Chef Book is a personal recipe guide that provides you with the best recipe from all over the world. You will impress Chef-Book application with good design, simple navigation and search. In addition, it is not only a book, but an easy to use kitchen tool to collect and organize your own recipes in the most convenient way! For each recipe, you can add any information, specify as many cooking steps as you like and provide an image for each one.



**Figure 2: Chef-Book Graphic User Interface**

#### - Pros

- The system provides illustrated step by step recipes.
- The system provides you to make your own recipes.
- The system provides shopping assistant or shopping list function.
- The system provides to send email about interesting recipe to your friend.
- Good look and design

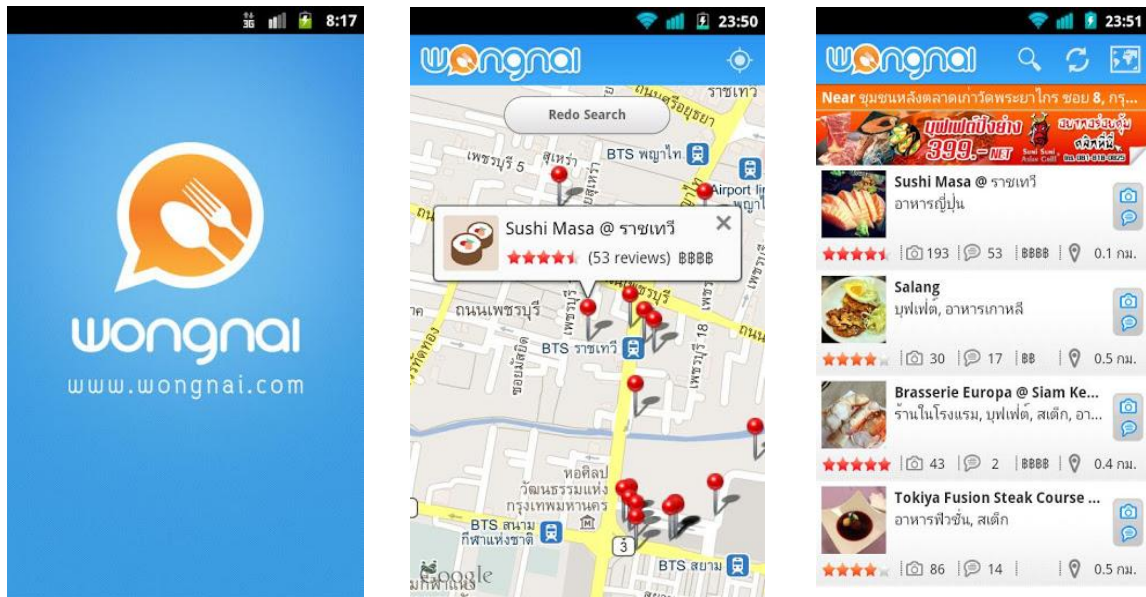
#### - Cons

- No description of direction of ingredients.
- Have to pay for special menu.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	10 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

### 2.2.3 Wongnai Android application <sup>[4]</sup>

Wongnai is the application on android that help you pick restaurants around you. Wongnai has more than 100,000 restaurants from all over Thailand with detailed information and real user reviews. You can easily search for an Italian restaurant that is top-rated in Bangkok. We auto-identify your location via GPS so we can pinpoint restaurants and bars in your exact area.



**Figure 3: Wongnai Android application Graphic User Interface**

#### **-Pros**

- The system provides easily search restaurants nearby you or by keyword.
- The system provides restaurant information and reviews from real users.
- The system provides user to post photo, write a review, or add new restaurant.
- The system provides user to get direction to restaurant.
- Login and share with Facebook.

#### **- Cons**

- Not accuracy in position of location if not using GPS access.
- Some suggestion restaurant in this application is an advertisement.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	11 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

## 2.3 Technology Review

### 2.3.1 Android Operating System Android Operating System

Android is a mobile operating system developed by Google. Base on Linux with Java programming for devices that include operating system such as Smartphone. Android supported different platform or mobile phone of many company. <sup>[5]</sup>

#### Alternative Technologies

- iOS from Apple
- Symbian OS from Nokia and Accenture
- Bada from Samsung Electronics
- BlackBerry Os from RIM
- Palm OS by Plam, Inc.

#### The Selection of This Technology

Nowadays the most popular mobile operating system is Android and IOS. For us, we chose Android OS for developing mobile application because:

1. It is free, Android is the open source platform and the development tools are free.
2. Familiar with Java language.
3. Have many tools for us to develop.

### 2.3.2 PHP

PHP is stand for Hypertext Preprocessor. It is an open source server-side scripting language to embed into HTML. <sup>[6]</sup> PHP offers excellent connectively to many database including MySQL, Oracle, Sybase, Solid, Informix, PostgreSQL, Generic ODBC. <sup>[7]</sup>

#### Alternative Technology

- ASP.NET
- JSP
- Perl
- Ruby
- Python

#### The Selection of This Technology

We chose PHP because, it supports our project in term of connecting between Android application and Web Service by using Soap created with PHP. It easy to find the solution that happens and easy to understand.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	12 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

### 2.3.3 CSS

CSS is stand for Cascading Style Sheets. It defines how to display HTML elements. Styles are usually saved in external .css file. It gives comfortable to change the layout of all pages in web site. <sup>[8]</sup>

#### Alternative Technology

No alternative technology for CSS

#### The Selection of This Technology

We chose CSS because; the CSS will be able to make our application look beautiful and easy to control.

### 2.3.4 JSON

JSON is stand for JavaScript Object Notation. It is a way to store information and organized. <sup>[9]</sup> It suit for programming language including C, C++, C#, Java, JavaScript, Perl, Python, and many other. <sup>[10]</sup>

#### Alternative Technology

- XML

#### The Selection of This Technology

JSON is makes people easy to read and write. It provides Android stores and retrieves data between Web-Service and their application.

### 2.3.5 Google API

Google API stands for Application Programmable Interface. It is an interface that queries the Google database to help developer develop their applications. Google API consist of basic of specialized Web-Service, programs and specialized scripts that enable programmers to better find and process information on the their web. It can be used as an added resource in their application. <sup>[11]</sup>

#### Alternative of This Technology

No alternative technology for Google API.

#### The Selection of This Technology

Google API provides our application to use functions from Google such as Google Map, to give the locations, and can be use other functions to adapt in our project.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	13 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013



### 2.3.6 Facebook API

Facebook API is the Facebook tools that allow develop to read and write data from Facebook.<sup>[12]</sup> Facebook API has many functions that the developer and use in their application such as Login with Facebook ID, share, and also access to information of the users.<sup>[13]</sup>

#### Alternative of This Technology

No alternative technology fot Facebook API.

#### The Selection of This Technology

Our application use Facebook ID to accessing. It provides generating function that uses the data from Facebook and also allows using their functions.

## 2.4 Development Tools Review

### 2.4.1 Android SDK

Android SDK is a software development kit that allows the developer to create applications for Android platform. The Android SDK includes a sample project with source code, development tools, an emulator and required libraries to build Android applications.<sup>[14]</sup>

#### Alternative Technology

No alternative Technology for Android SDK

#### The selection of This Technology

Our application develops on Android platform. Android SDK include other API version such Google API, Screen API and support package that it suitable for us.

### 2.4.2 Eclipse

Eclipse is a development tools for creating the projects. Eclipse provides a common user interface for working with tools. All projects are in a workspace. Eclipse has many plug-in each plug-in can focus on doing a small number of tasks. The tasks are defining, testing, animating, publishing, compiling, debugging and diagramming.<sup>[15]</sup>

#### Alternative Tools

- NetBeans IDE

#### The Selection of This tool

Eclipse has support developing Android platform such as Android SDK and it suitable for our project. Many plug-in of Eclipse is for free and easy to find.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	14 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

### 2.4.3 Drop box

Drop box is a file hosting service. So Drop box provide many service such as cloud storage that offer at least 2 GB spaces for free, file client and synchronization software. Drop box allow users to synchronize with your own computer. For example, you can create a file in your computer and share with your via Drop box. Files storage can accessible through a website and mobile phone application. <sup>[16]</sup>

#### Alternative Tools

- Google Drive
- Cubby
- Sugar sync
- Sky Drive
- iCloud

#### The Selection of This Tool

Drop box is very popular software used for storing file and sharing file with your colleague. Drop box provide file synchronization that means you can access to your own storage everywhere. It helps us to manage our document file and share our document to our advisee.

### 2.4.4 Visual Paradigm for UML

Visual Paradigm for UML is design tools for UML as a software development process. It support key modeling standards such as UML, ER Diagram, Data Flow Diagram and etc. <sup>[17]</sup>

#### Alternative Tools

- Smart Draw
- E Draw Flowchart
- Diagram Designer
- ArgoUML

#### The Selection of This Tool

Visual Paradigm for UML is very useful program. It use for create the diagram that relate with our project. So our college already has a license for students that who want to use.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	15 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

### 2.4.5 Adobe Photoshop

Adobe Photoshop is a graphics editing program and developed by Adobe Systems. It provide image editing function, 3D image creation, motion graphic editing advanced image analysis features, new creative option and fast performance. It offers many tools to design and improve the project. <sup>[18]</sup>

#### Alternative Tools

- Photoscape
- Gimp
- Pixia
- Photoplus
- PhoroFiltre

#### The Selection of This Tool

Adobe Photoshop is very useful graphics editing program to design and create a graphic. Photoshop offers more advanced features, techniques, and tools that enable us to produce very beautifully graphical images for our project. This brings up the good appearance and attraction for our project.

### 2.4.6 MySQL

MySQL is an open source database. It commonly used by programs that run on websites. MySQL is an open source Database Management System that it is free and available on almost all the platforms (UNIX, Windows and Mac OS). <sup>[19]</sup>

#### Alternative Technologies

- Oracle
- Sybase
- Solid
- Informix
- PostgreSQL
- Generic ODBC

#### The Selection of this Technology

We chose MySQL because in our application need to connect database via web-service and MySQL support that process. Another reason is it has more performance and free.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	16 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013



# Chapter Three |

## Quality Standard

### 3.1 ISO29110 for Very Small Entity (VSE)

ISO29110 is a guide applies to a Very Small Entity (VSE), enterprise, organisation, department or project up to 25 people, dedicated to software development. The Guide provides Project Management and Software Implementation processes which integrate practices based on the selection of ISO/IEC 12207- *Systems and Software Engineering — Software Life Cycle Processes* and ISO/IEC 15289 *Software Engineering – Software Life Cycle Process – guidelines for the content of software life cycle process information products (documentation)* standards elements.

#### 3.1.1 Project Management process

The purpose of the Project Management process is to establish and carry out in a systematic way the tasks of the software implementation project, which allows complying with the project's objectives in the expected quality, time and cost.

Selected process

- Project Planning Process
- Project Plan Execution Process
- Project Assessment and Control Process
- Project Closer Process

#### 3.1.2 Software Implementation process

The purpose of the Software Implementation process is the systematic performance of the analysis, design, construction, integration and tests activities for new or modified software products according to the specified requirements.

Selected process

- Software Implementation Initiation Process
- Software Requirements Analysis Process
- Software Architectural Design Process
- Software Construction Process
- Software Integration and Test Process
- Software Delivery Process

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	17 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

# Chapter Four |

## Project Plan

### 4.1 Motivation

Nowadays there are many cook recipe application. The problem is general cook recipe application they are only providing How to cook and what food's ingredient is needed for each, but they are not providing ingredient information that makes user misunderstanding. Another problem, the user has no idea where the place user is can get ingredient. So this application is the necessary thing to produce for solving problems. In addition, this project is based on cook recipe for Lanna which is north of Thailand area food application on android. We would like to encourage Lanna food to be famous food in Thailand because it was gradually disappearing in the present. Google API is one of technology that involve in this project. It is very useful, interesting API and be part of many of the application. So we use Google Map API to show ingredient's location around user for helping user save time to find needed ingredient.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	18 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

## 4.2 Aims and Objectives

### 4.2.1 Aims

The aim of this project is to develop mobile application on android that provides Lanna food recipe for cooking, finding food ingredients locations by user recommend and provide add to shopping list feature that contain a list of ingredients that have to buy. So we hope it can help the user to reduce time to prepare food and user feel more comfortable to use this application.

### 4.2.2 Objectives

- Develop Android application and Web-service using open source technologies and open source development tools.
- Provide ingredient picture and description for the user who does not know some ingredient.
- Help users get more comfortable and save their times for finding ingredient's location that provided by user and admin.
- Allow user can create their own ingredient location store to sharing with other users.
- Provide shopping list function users can add menu to shopping list that store the list of ingredients in each menu and also calculate amount of needed ingredients in each menu up to 3 menus.
- Promote Lanna Foods to be famous food in Thailand by providing this application for free.
- Provide user convenience to retrieve ingredient's location using Google Map API and also calculate distance which ingredient's store is nearest.
- Synchronize with Facebook API for registering and using share function to share food menu on user Facebook account.
- Provide interaction with user Random Feature that user can random by shaking a device. Another is adding to shopping list feature that provide user to use their figure to drag the list that already buy or remove it.

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	19 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

## 4.3 Deliverables and Limits

### 4.3.1 Deliverables

#### - Progress Report I

##### Server

- Create database system for adding, updating and deleting food recipe
- Developing log-in system

##### Mobile Application

- User interface for all frame design
- Connect with Facebook

#### - Progress Report II

##### Mobile Application

- Pinpoint position of food's ingredient for sharing with other users.
- Show map by Google Map API for showing ingredient location around user.
- API Add to shopping List function for helping reduce time to prepare food.

#### - Progress Report III (Show Pro)

##### Server

- Calculation distance system for food's ingredient which one is nearest.

##### Mobile Application

- Random Food System by shaking

#### - Documents

- Proposal
- Project Plan
- Software requirement specification
- Traceability record
- Software design document
- Testing document
- Test Plan
- Unit test report
- System test report
- User manual
- 1 CD-ROM stores all source code; relate file, all documents and poster files in PDF format
- 1 project poster

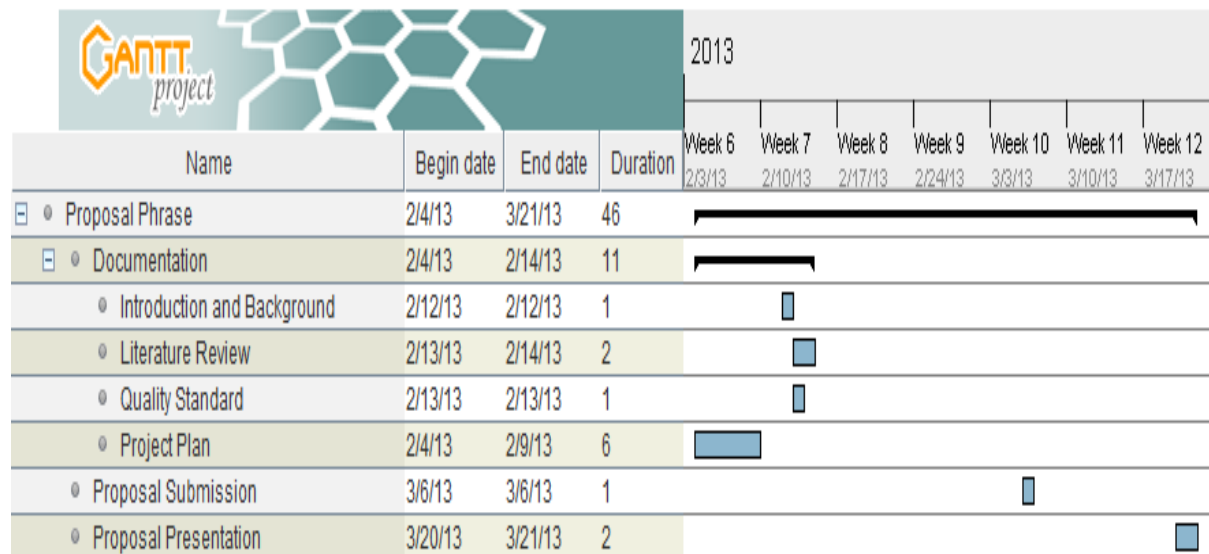
### 4.3.2 Limits

- The application is requires android OS version than 2.3 or later.
- Internet connection is required for using our application.
- The application provide to user who is already registering in the system.
- The application has to specify available date (ingredient season) of each ingredient that has been shared

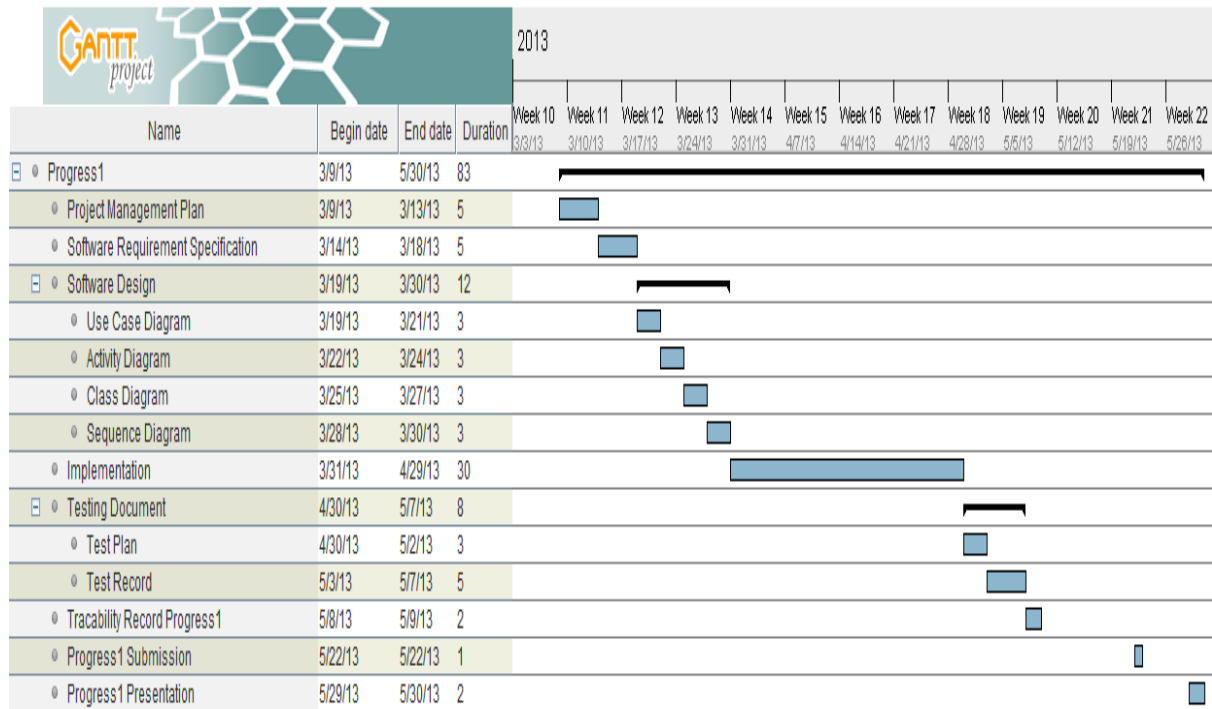
Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	20 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

## 4.4 Schedule & Milestones

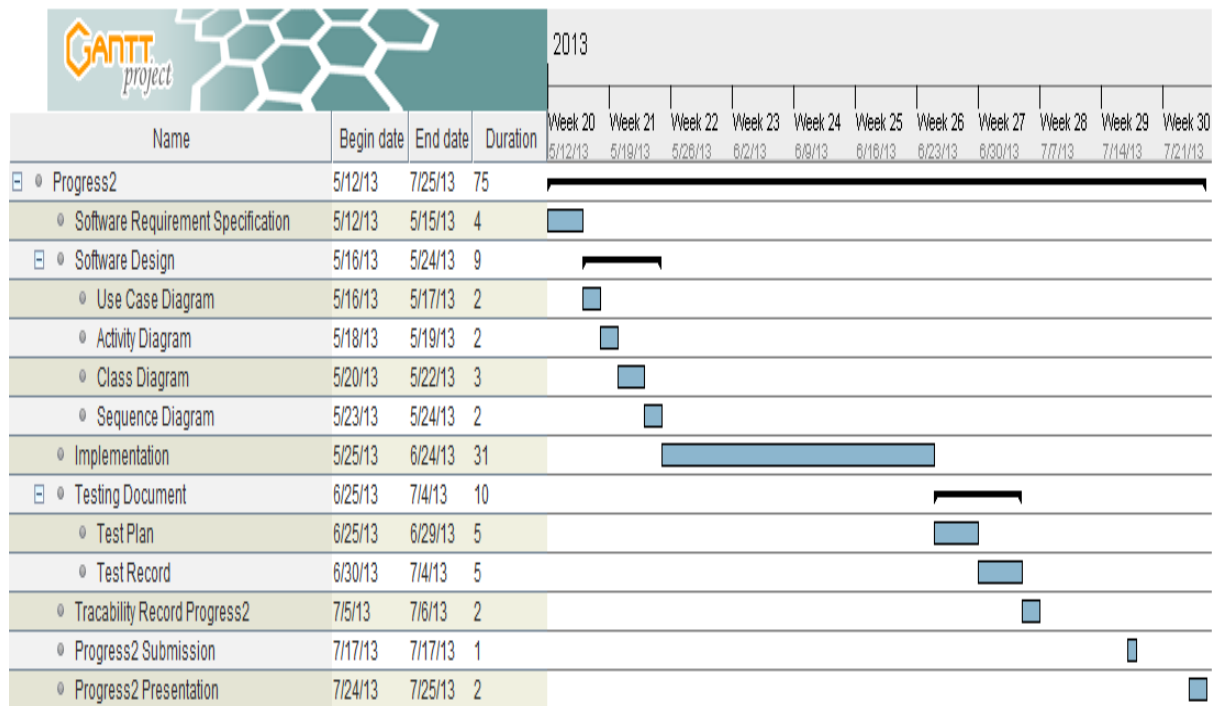
According from following milestones of this mobile application which show task and period of time needed to complete. Schedule and Milestones is shown below that:



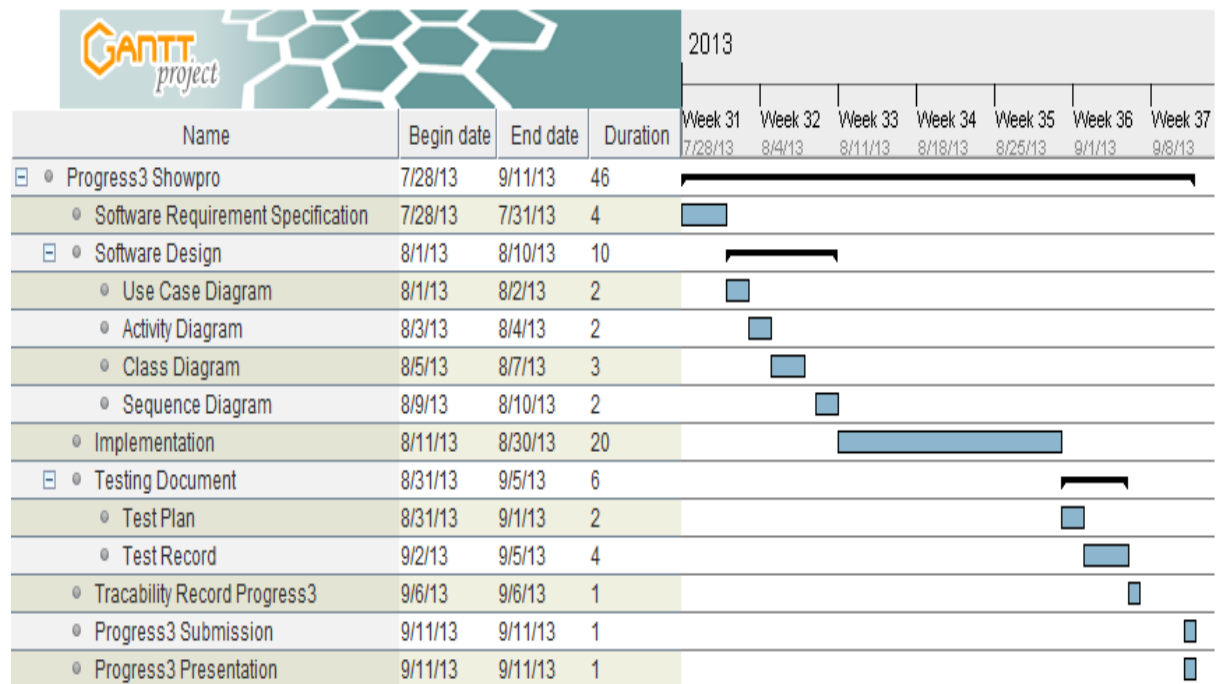
**Figure 4: Proposal Schedule**



**Figure 5: Progress 1 Schedule**

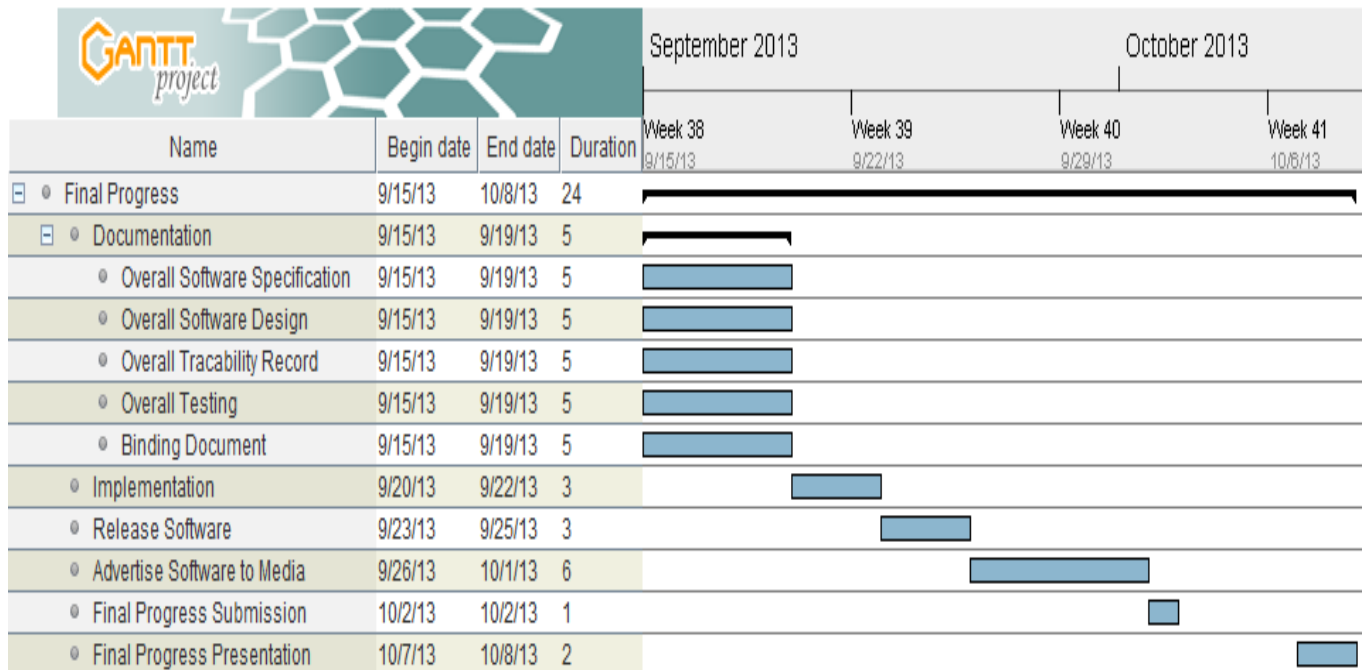


**Figure 6: Progress 2 Schedule**



**Figure 7: Progress3 Show Pro Schedule**





**Figure 8: Final Progress Schedule**

# Chapter Five |

## References

- [1] **Topic:** Betty Crocker Mobile Cookbook Application information  
**Source:** [https://play.google.com/store/apps/details?id=com.general Mills.cookbook&feature=search\\_result](https://play.google.com/store/apps/details?id=com.general Mills.cookbook&feature=search_result)
- [2] **Topic:** Advantage of Betty Crocker Mobile Cookbook  
**Source:** <http://www.bettycrocker.com/downloads-and-games/android-app>
- [3] **Topic:** Chef-Book Application information  
**Source:** <https://itunes.apple.com/app/id483526644>
- [4] **Topic:** Wongnai Android application information  
**Source:** <https://play.google.com/store/apps/details?id=com.wongnai.android&hl=en>
- [5] **Topic:** Android Operating System Android Operating System information  
**Source:** [http://www.vogella.de/articles/Android/article.html#overview\\_android](http://www.vogella.de/articles/Android/article.html#overview_android)
- [6] **Topic:** PHP information  
**Source:** <http://www.php.net/manual/en/intro-what is.php>
- [7] **Topic:** PHP information  
**Source:** <http://www.buildwebsite4u.com/advanced/php.shtml>
- [8] **Topic:** CSS information  
**Source:** [http://www.w3schools.com/css/css\\_intro.asp](http://www.w3schools.com/css/css_intro.asp)
- [9] **Topic:** JSON information  
**Source:** <http://www.copterlabs.com/blog/json-what-it-is-how-it-works-how-to-use-it/>
- [10] **Topic:** JSON information  
**Source:** <http://www.json.org/>
- [11] **Topic:** Google API  
**Source:** <https://forums.digitalpoint.com/threads/what-is-google-api.31897/>

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	26 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013

**[12] Topic:** Facebook API information

**Source:** <http://www.ibm.com/developerworks/library/x-androidfacebookapi/index.html>

**[13] Topic:** Facebook API information

**Source:** <http://developers.facebook.com/docs/reference/apis/>

**[14] Topic:** Android SDK information

**Source:** [http://www.webopedia.com/TERM/A/Android\\_SDK.html](http://www.webopedia.com/TERM/A/Android_SDK.html)

**[15] Topic:** Eclipse information

**Source:** [http://help.eclipse.org/galileo/index.jsp?topic=/org.eclipse.platform.doc.isv/guide/int\\_eclipse.html](http://help.eclipse.org/galileo/index.jsp?topic=/org.eclipse.platform.doc.isv/guide/int_eclipse.html)

**[16] Topic:** Drop box information

**Source:** <https://blog.dropbox.com/>

**[17] Topic:** Visual Paradigm for UML

**Source:** <http://www.visual-paradigm.com/product/vpuml/>

**[18] Topic:** Adobe Photoshop information

**Source:** <http://www.adobe.com/products/photoshop.html>

**[19] Topic:** MySQL information

**Source:** <http://www.thesitewizard.com/faqs/what-is-mysql-database.shtml>

Document Name	LCR -Proposal-V.1.3-docx	Owner	KO,KS	Page	27 / 27
Document Type	Proposal	Release Date	5 April 2013	Print Date	4 October 2013