

Lanna Cooking Recipe on Mobile Software Design

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V.2.1	9/08/2013	KO,KS	KO,KS	-Edit in 2.2 Product feature to add more information about feature and add number of each feature. -Change name of both class Admin and AdminsController to User and UsersController in class diagram and class diagram description. -Add class ShopsController description. -Edit in class diagram to add id of each class diagram and traceability -Change name of admins tabel to users -Set float number to (10,6)

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	1 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

V.3.0	3/10/2013	KO,KS	KO,KS	<ul style="list-style-type: none"> - Edit ER diagram - Edit Sequeunce diagram - Edit Class Diagram and Description - Edit Mobile UI design
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Document develop by

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(3 October 2013)

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	2 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Table of Contents

1.	Introduction.....	4
1.1	Objective	4
1.2	Intended Audience and Reading Suggestions	4
1.3	Project Scope	5
1.4	Acronyms and Definitions	5
2.	Overall Description.....	6
2.1	Product Perspective.....	6
2.2	Product Features.....	6
2.3	User Classes and Characteristics.....	8
2.4	Operation Environment.....	9
2.5	Design and Implementation Constraints	9
3.	System architecture	10
4.	Detailed design.....	11
4.1	Class diagram.....	11
4.1.1	PHP class diagram	11
4.1.2	Android Application class diagram.....	12
3.1	Sequence diagram	52
4.	Data architecture	89
4.1	ER diagram	89
4.2	Database design	90
5.	User interface design.....	94

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	3 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

1. Introduction

1.1 Objective

Lanna Cooking Recipe on Mobile is an application run on android operation system; this application is support English language. Which is main purpose to promote Northern Thailand food by providing Lanna recipe as all food menu in our application, save time to prepare food, easy to understand with recipe information's such as food ingredients, cooking, shopping list and the location that any ingredients are sale, synchronize Facebook and Google function to work with our application. This application provides users can be share food information's, and also make interaction with users by shaking for random food recipe.

This Software Design Document is contains with a complete description of the design system for developer can develop Mobile application for Lanna Cooking Recipe. By show the scope of this project into picture which is providing the functions that helps all users of this application to get the comfortable ways when they need to interaction between customer and administrator.

1.2 Intended Audience and Reading Suggestions

This Software Requirement Specification documentation is intended to be used for anyone that relate with Lanna Cooking Recipe on Mobile system. The documentation will benefit to those who develop the system and those who use the system followed:

Development team

- The requirement specification can be use to define the scope of the application and help everyone to have the same understanding.
- Help to verify and validate whether the development team follow the requirement specification defined in this documentation or not.
- Help guiding team to right direction or the way that application should do.
- Help achieving the highest quality of the product.
- Useful to be used as a reference for discussion about the system.

Customer

- Ensure that the development team will understand requirements, achieve the requirement, and satisfy the customer needs.
- Help customer understand the quality, scope, and limitation of the system defined in the document.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	4 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

1.3 Project Scope

The objective of this software requirement specification is to specify requirement to establish the application that:

- The application is Lanna Cooking Recipe on Mobile.
- Lanna Cooking Recipe on Mobile is android application.
- Lanna Cooking Recipe on Mobile supports English language.
- Lanna Cooking Recipe on Mobile provides member system.
- Lanna Cooking Recipe on Mobile provides recipe information management system.
- Lanna Cooking Recipe on Mobile provides location management system.
- Lanna Cooking Recipe on Mobile provides shopping list management system.
- Lanna Cooking Recipe on Mobile can be work with Facebook API to share menu to user account.
- Lanna Cooking Recipe on Mobile can be work with Google Map.
- Lanna Cooking Recipe on Mobile can be make interaction with users by random menu function.
- Lanna Cooking Recipe on Mobile has display recipe information on application.
- Lanna Cooking Recipe on Mobile has finding ingredient store location function.

1.4 Acronyms and Definitions

Acronyms

LCR = Lanna Cooking Recipe
PMP = Project Management Plan
SDD = Software Design Document
SRS = Software Requirement Specification
KO = Kantapong Orprayoon
KS = Khomkrib Singh
DB = Database
SQ = Sequence Diagram
UI = User Interface

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	5 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

2. Overall Description

2.1 Product Perspective

The Lanna Cooking Recipe is a mobile application base on android OS. So this application helps users save their time to prepare food by providing features such as shopping list feature that is contain list of needed ingredient, ingredient location finding which is feature that using Google map to find where is needed ingredient store location and random menu food system by shaking.

2.2 Product Features

The Lanna Cooking Recipe is separated into two parts. The first part is the basic feature and second part is the special features that make Lanna Cooking Recipe become unique. The following list is the description of each part in more detail.

First part: Server Features

These are 3 server features defined in this part, which are

Server Feature 1:

- **Manage recipe detail information**

The system provides administrator can add, edit, and delete recipe detail information.

- **Manage ingredient detail information**

The system provides administrator can add, edit, and delete ingredient detail information.

- **Manage ingredient for each menu**

The system provides administrator can add and delete ingredient for each menu.

- **Manage cooking method information**

The system provides administrator can add, edit, and delete cooking method information.

Server Feature 2:

- **User Register Feature**

The system requires to registers to be a member before use this application.

- **User Authentication Feature**

The system provides to login to application and logout from the system for user.

The system provides to login to web service and logout from web service for administrator.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	6 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Server Feature 3:

- **Manage ingredient store location information**

The system provides administrator can add, edit, and delete ingredient store location information.

Second part: Mobile Application Features

These are 9 mobile application features defined in this part, which are

Mobile Feature 1: User interface for all frame design

The system provides usability interface to the user. For more comfortable and understanding to use the application

Mobile Feature 2: View information of recipe

The system provides information of recipes which are how to cook and list of needed ingredient.

Mobile Feature 3: Share by Facebook feature

The system provides user can share food menu on user Facebook account.

Mobile Feature 4: Ingredient information feature

The system provides user can view ingredient information and description which are name, description and picture.

Mobile Feature 5: Finding Ingredient Store Location Feature

The system provides user convenience to retrieve ingredient's store location by using Google Map API.

Mobile Feature 6: Shopping List Feature

The system provides shopping list function users can add menu to shopping list that store the list of ingredients in each menu.

Mobile Feature 7: Find direction from user to ingredient store location

The system provides can user can get direction between user and ingredient shop by using Google map API.

Mobile Feature 8: Random Menu Feature

The system provides interaction with user Random Feature that user can random by shaking a device.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	7 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

2.3 User Classes and Characteristics

The system divided users into 2 groups. Information and characteristics of each group are listed below.

User

This group of person who already register for the system, they can use the application for help to save their time and get more comfortable. The user is able to:

- **User registration feature**
- **View information of recipe**
- **Authentication feature**
- **Finding ingredient store location feature**
- **Shopping list feature**
- **Random menu feature**
- **Share feature**
- **Ingredient information feature**

Administrator

This group of person who has highest privilege in the system. So they gain the management function for maintain the system. Administrator is able to:

- **Authentication feature**
- **Manage recipe detail information**
- **Manage ingredient detail information**
- **Manage ingredient for each menu**
- **Manage cooking method information**
- **Manage finding ingredient store location information**

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	8 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

2.4 Operation Environment

This system operates on web application and android mobile application when customers request information, android mobile application will request to web application.

Server Environment

This system supports windows server platform which capable of web-server, database-server and internet connection. The system also requires at least 10 gigabytes for a database and at least 4 gigabytes of main memory (RAM) for managing with a lot of customer's session at peak hour.

Client Environment

The system supports only android platform which capable of internet connection. Customer may need the at least version 2.2 of android in order to make the system can run properly and also require GPS for getting correctly position form Google map API. The system also requires at least 1 gigahertz for processor (CPU), at least 16 gigabytes for hard disk space and at least 2 gigabytes of main memory (RAM) for managing with a lot of customer's session at peak hour.

2.5 Design and Implementation Constraints

List of project constraints:

- The application work on only android version not less than 2.3
- The application is requires the internet connection.
- 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 -SDD-V.3.0-docx	Owner	KS	Page	9 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

3. System architecture



Figure 1 System architecture

Lanna Cooking Recipe on Mobile is the system that help customer for making Lanna food, and finding the location that sell ingredients. The customer can accessed from own mobile phone. Lanna Recipe and customer information had record in database system such as when customer want to see recipe information, our application will request to connect with server for receive the data from database by JSON form and display on own mobile phone. In other site, the admin can add, edit, and delete the data in the database via own PC.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	10 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

4. Detailed design

4.1 Class diagram

4.1.1 PHP class diagram

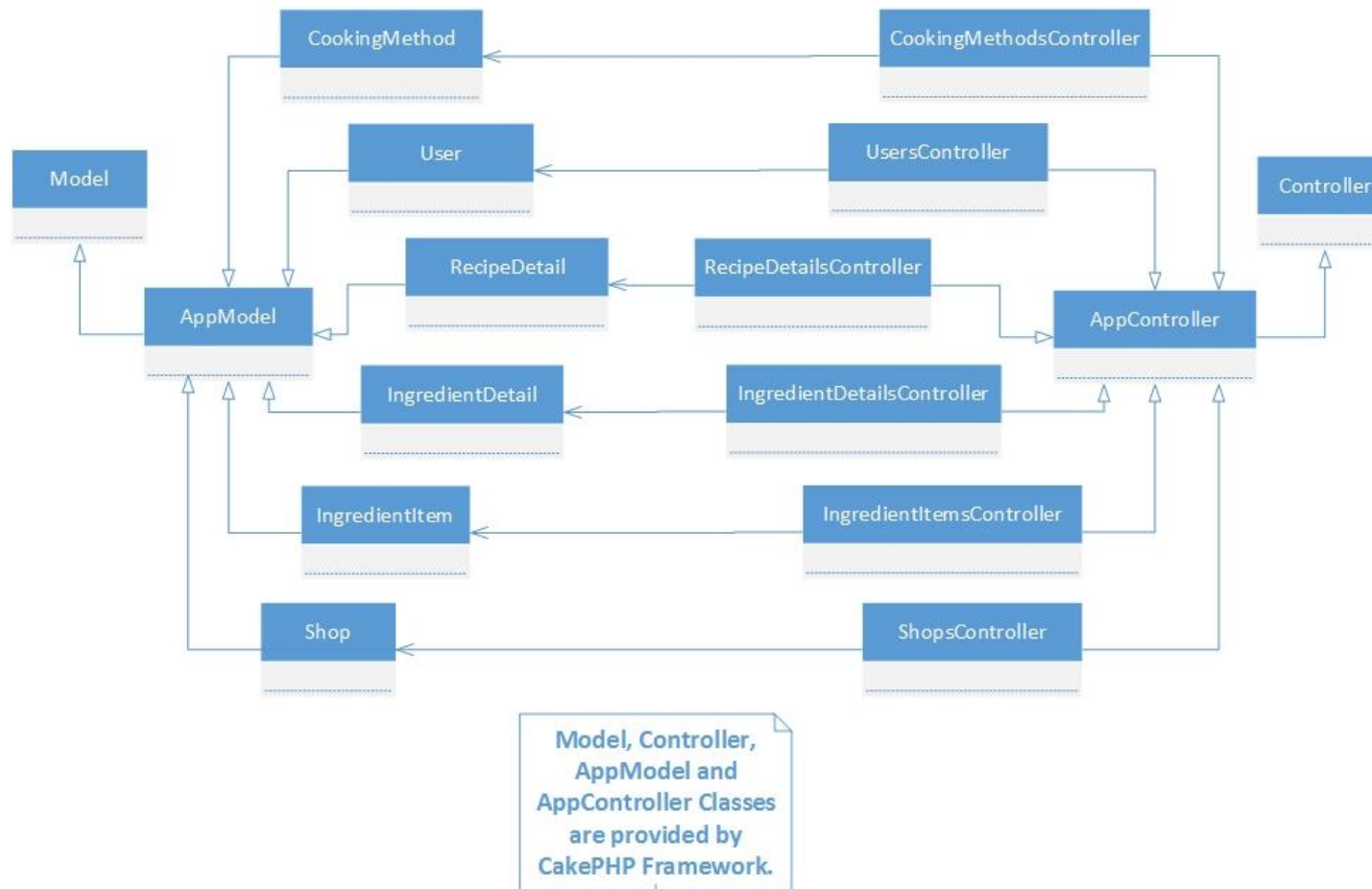


Figure 2 PHP class diagram

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	11 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

4.1.2 Android Application class diagram

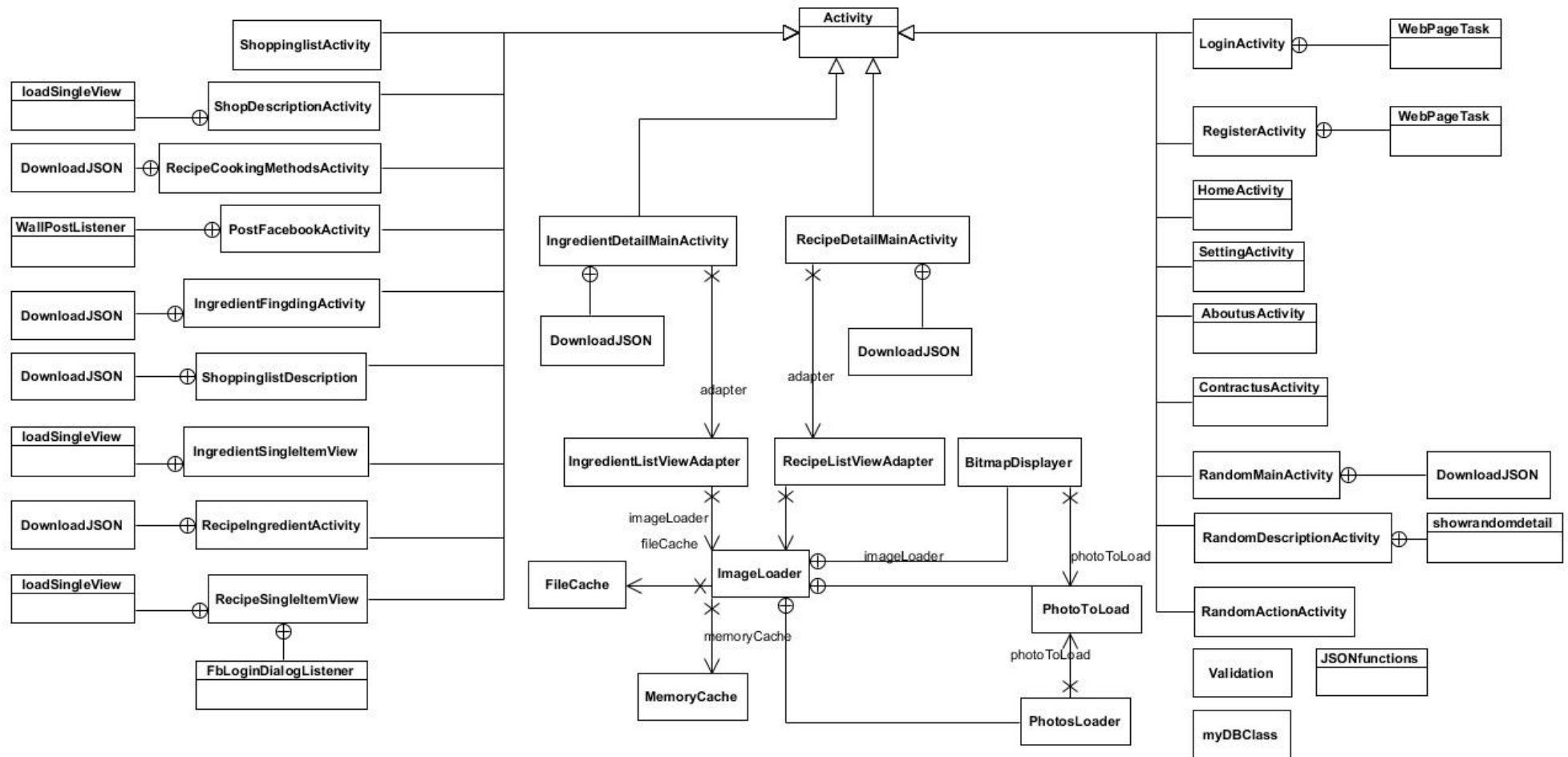


Figure 3 Android Application class diagram

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	12 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

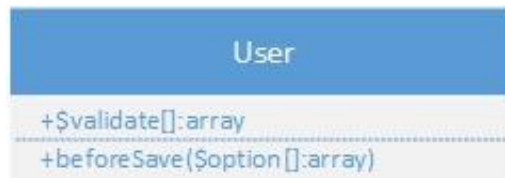
4.2 Class Diagram Description

4.2.1 PHP class diagram Description

Model

PHP Class Diagram ID: 1 Traceability: URS-19,20

Class Name: User



Property

ID	Name	Description	Remark
1	\$validate[]	Declare variable for validate the form input data.	Type: array

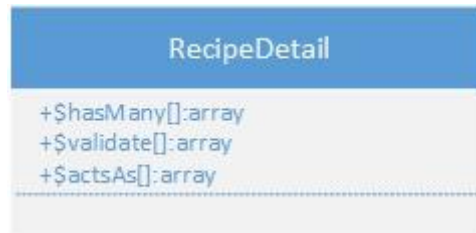
Method

ID	Name	Description	Remark
1	beforeSave(\$option[]:array)	Method used to hashing the password before save to the database.	Parameter: \$option[]

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	13 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 2 Traceability: URS-21

Class Name: RecipeDetail



Property

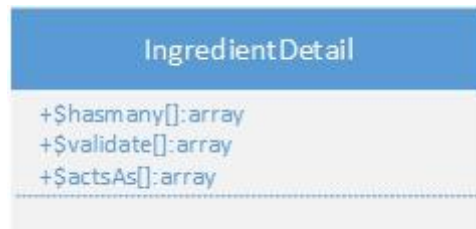
ID	Name	Description	Remark
1	\$hasmany[]	Declare variable for identify the relationship between database.	Type: array
2	\$validate[]	Declare variable for validate the form input data.	Type: array
3	\$actsAs[]	Declare variable for validate the image before save to the database.	Type: array

Method

ID	Name	Description	Remark
-	-	-	-

PHP Class Diagram ID: 3 Traceability: URS-22

Class Name: IngredientDetail



Property

ID	Name	Description	Remark
1	\$hasmany[]	Declare variable for identify the relationship between database.	Type: array
2	\$validate[]	Declare variable for validate the form input data.	Type: array
3	\$actsAs[]	Declare variable for validate the image before save to the database.	Type: array

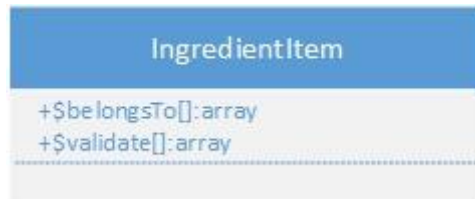
Method

ID	Name	Description	Remark
-	-	-	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	14 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 4 Traceability: URS-23

Class Name: IngredientItem



Property

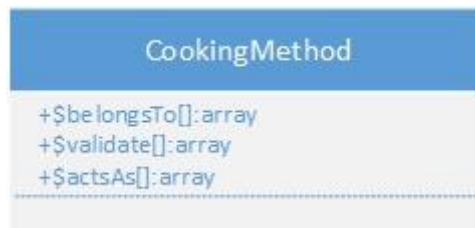
ID	Name	Description	Remark
1	\$belongsTo[]	Declare variable for identify the relationship between database.	Type: array
2	\$validate[]	Declare variable for validate the form input data.	Type: array

Method

ID	Name	Description	Remark
-	-	-	-

PHP Class Diagram ID: 5 Traceability: URS-24

Class Name: CookingMethod



Property

ID	Name	Description	Remark
1	\$belongsTo[]	Declare variable for identify the relationship between database.	Type: array
2	\$validate[]	Declare variable for validate the form input data.	Type: array
3	\$actsAs[]	Declare variable for validate the image before save to the database.	Type: array

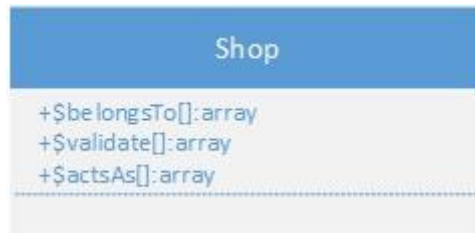
Method

ID	Name	Description	Remark
-	-	-	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	15 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 6 Traceability: URS-26

Class Name: Shop



Property

ID	Name	Description	Remark
1	\$belongsTo[]	Declare variable for identify the relationship between database.	Type: array
2	\$validate[]	Declare variable for validate the form input data.	Type: array
3	\$actsAs[]	Declare variable for validate the image of ingredient store locations.	Type: array

Method

ID	Name	Description	Remark
-	-	-	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	16 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Controller

PHP Class Diagram ID: 7 Traceability: URS-19,20

Class Name: UsersController



Property

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	beforeFilter()	Method used to call authentication setting from ApplicationController class.	-
2	login()	Method used to redirect to index page when admin login and check the username and password in database.	-
3	logout()	Method used to redirect to login page when admin clicks logout.	-
4	add()	Method used to redirect to add admin page for register new admin to database.	-
5	delete(\$id:int)	Method used to delete admin in database.	Parameter: \$id

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	17 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 8 Traceability: URS-21

Class Name: RecipeDetailsController



Property

ID	Name	Description	Remark
1	\$helpers[]	Declare variable for identify the HtmlHelper that used in this controller.	Type: array
2	\$components[]	Declare variable for identify the components that used in this controller.	Type: array

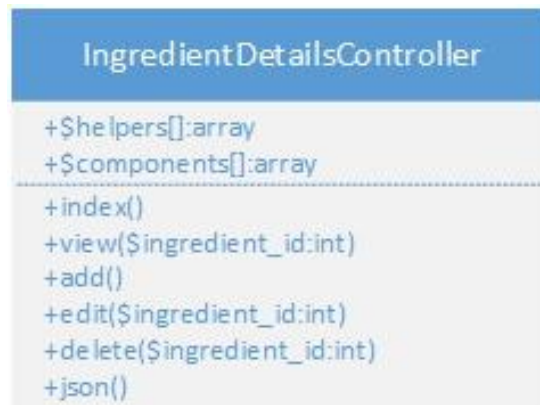
Method

ID	Name	Description	Remark
1	index()	Method used to displays index page of recipe detail.	-
2	view(\$recipe_id:int)	Method used to redirects page to view page for shows the details of recipe detail from database.	Parameter: \$recipe_id
3	add()	Method used to redirects page to add recipe detail page for adding recipe detail to the database.	-
4	edit(\$recipe_id:int)	Method used to redirects page to edit recipe detail page for editing recipe detail and save to database.	Parameter: \$recipe_id
5	delete(\$recipe_id:int)	Method used to deletes recipe detail in database.	Parameter: \$recipe_id
6	json()	Method used to converts JSON file from recipe detail data.	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	18 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 9 Traceability: URS-22

Class Name: IngredientDetailsController



Property

ID	Name	Description	Remark
1	\$helpers[]	Declare variable for identify the HtmlHelper that used in this controller.	Type: array
2	\$components[]	Declare variable for identify the components that used in this controller.	Type: array

Method

ID	Name	Description	Remark
1	index()	Method used to displays index page of ingredient detail.	-
2	view(\$recipe_id:int)	Method used to redirects page to view page for shows the details of ingredient detail from database.	Parameter: \$ingredient_id
3	add()	Method used to redirects page to add ingredient detail page for adding ingredient detail to the database.	-
4	edit(\$recipe_id:int)	Method used to redirects page to edit ingredient detail page for editing ingredient detail and save to database.	Parameter: \$ingredient_id
5	delete(\$recipe_id:int)	Method used to deletes ingredient detail in database.	Parameter: \$ingredient_id
6	json()	Method used to converts JSON file from ingredient detail data.	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	19 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 10 Traceability: URS-23

Class Name: IngredientItemsController



Property

ID	Name	Description	Remark
1	\$helpers[]	Declare variable for identify the HtmlHelper that used in this controller.	Type: array
2	\$components[]	Declare variable for identify the components that used in this controller.	Type: array

Method

ID	Name	Description	Remark
1	index()	Method used to displays index page of ingredient item.	-
2	add()	Method used to redirects page to add ingredient item page for adding ingredient item to the database.	-
3	edit(\$id:int)	Method used to redirects page to edit ingredient item page for editing ingredient item and save to database.	Parameter: \$id
4	delete(\$id:int)	Method used to deletes ingredient item in database.	Parameter: \$id
5	json()	Method used to converts JSON file from ingredient item data.	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	20 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 11 Traceability: URS-24

Class Name: CookingMethodsController



Property

ID	Name	Description	Remark
1	\$helpers[]	Declare variable for identify the HtmlHelper that used in this controller.	Type: array
2	\$components[]	Declare variable for identify the components that used in this controller.	Type: array

Method

ID	Name	Description	Remark
1	index()	Method used to displays index page of cooking method.	-
2	view(\$id:int)	Method used to redirects page to view page for shows the details of cooking method from database.	Parameter: \$id
3	add()	Method used to redirects page to add cooking method page for adding cooking method to the database.	-
4	edit(\$id:int)	Method used to redirects page to edit cooking method page for editing cooking method and save to database.	Parameter: \$id
5	delete(\$id:int)	Method used to deletes cooking method in database.	Parameter: \$id
6	json()	Method used to converts JSON file from cooking method data.	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	21 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

PHP Class Diagram ID: 12 Traceability: URS-26

Class Name: ShopsController



Property

ID	Name	Description	Remark
1	\$helpers[]	Declare variable for identify the HtmlHelper that used in this controller.	Type: array
2	\$components[]	Declare variable for identify the components that used in this controller.	Type: array

Method

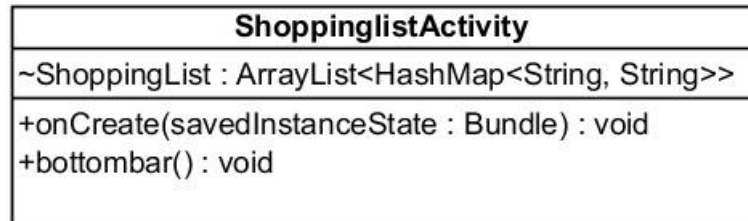
ID	Name	Description	Remark
1	index()	Method used to displays index page of shop.	-
2	view(\$id:int)	Method used to redirects page to view page for shows the details of shop and show map from database.	Parameter: \$id
3	add()	Method used to redirects page to add shop method page for adding ingredient store location to the database.	-
4	edit(\$id:int)	Method used to redirects page to edit shop page for editing ingredient store location and save to database.	Parameter: \$id
5	delete(\$id:int)	Method used to deletes ingredient store location in database.	Parameter: \$id
6	json()	Method used to converts JSON file from ingredient store location data.	-

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	22 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

4.2.2 Android Application class diagram Description

Application Class Diagram ID: 1 Traceability: URS-06

Class Name: ShoppinglistActivity



Property

ID	Name	Description	Remark
1	ShoppingList	Object of ArrayList	Type: ArrayList

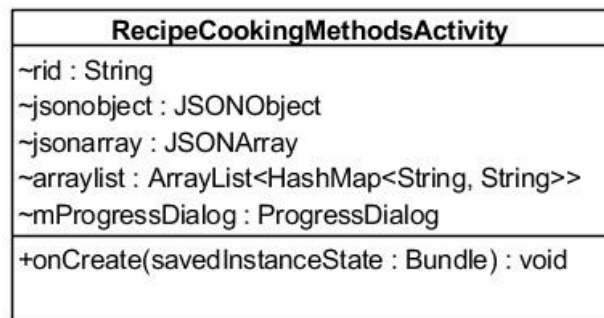
Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	23 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 2 Traceability: URS-05

Class Name: RecipeCookingMethodsActivity



Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	jsonobject	Object of JSONObject	Type: JSON object
3	jsonarray	Object of JSONArray	Type: JSON array
4	arraylist	Set Array List	Type: Array List
5	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	24 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 3 Traceability: URS-05

Class Name: DownloadJSON

DownloadJSON
~recipeObject : JSONObject ~subobject : JSONObject ~array : JSONArray ~array2 : JSONArray ~resultob : JSONObject
#onPreExecute() : void #doInBackground(params : Void ...) : Void #onPostExecute(args : Void) : void

Property

ID	Name	Description	Remark
1	recipeObject	Object of JSONObject	Type: JSON object
2	subobject	Object of JSONObject	Type: JSON object
3	array	Object of JSONArray	Type: JSON array
4	array2	Object of JSONArray	Type: JSON array
5	resultob	Object of JSONObject	Type: JSON object

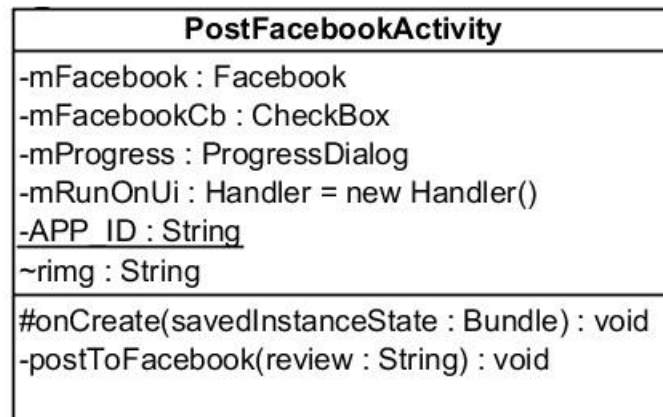
Method

ID	Name	Description	Remark
1	onPreExecute() : void	invoked on the UI thread before the task is executed	Return Type: void
2	doInBackground (params : Void ...) : Void	invoked on the background thread immediately after onPostExecute() finishes executing	Return Type: void Parameter: params : Void ...
3	onPostExecute(args : Void) : void	invoked on the UI thread after the background computation finishes	Return Type: void Parameter: args

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	25 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 4 Traceability: URS-11

Class Name: PostFacebookActivity



Property

ID	Name	Description	Remark
1	mFacebook	Object of Facebook	Type: Facebook object
2	mFacebookCb	Object of Checkbox	Type: Checkbox object
3	mProgress	Object of ProgressDialog	Type: ProgressDialog object
4	mRunOnUiThread	Object of Handler	Type: Handler object
5	APP_ID	String of Facebook API ID	Type: String
6	ring	Set recipe image	Type: String

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	postToFaceBook(review : String): void	The system calls this method to post status on Facebook.	Return Type: void Parameter: review

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	26 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 5 Traceability: URS-12

Class Name: IngredientFingdingActivity

IngredientFingdingActivity
~rid : String ~jsonobject : JSONObject ~jsonarray : JSONArray ~mMap : GoogleMap ~arraylist : ArrayList<HashMap<String, String>> ~mMarker : Marker ~lm : LocationManager ~lat : double ~lng : double ~mProgressDialog : ProgressDialog ~listener : LocationListener = new LocationListener()
+onCreate(savedInstanceState : Bundle) : void +onResume() : void +onPause() : void -addMarkersToMap() : void +bottombar() : void +getInfoContents(marker : Marker) : View +getInfoWindow(arg0 : Marker) : View

Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	jsonobject	Object of JSONObject	Type: JSON object
3	jsonarray	Object of JSONArray	Type: JSON array
4	mMap	Object of Google Map	Type: GoogleMap object
5	arraylist	Set Array List	Type: Array List
6	mMarker	Object of marker from google API	Type: Marker object
7	lm	Object of LocationManager	Type: LocationManager
8	lat	Set Latitude	Type: double
9	lng	Set Longitude	Type: double
10	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog
11	listener	Object of LocationListener	Type: LocationListener object

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	27 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	onResume() : void	Called when the activity will start interacting with the user. At this point your activity is at the top of the activity stack, with user input going to it. Always followed by onPause().	Return Type: void
3	onPause() : void	Called when the system is about to start resuming a previous activity.	Return Type: void
4	addMarkersToMap() : void	To add marker to Google map	Return Type: void
5	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void
6	getInfoContents(marker : Marker) : View	Provides custom contents for the default info window frame of a marker	Return Type: View
7	getInfoWindow (arg0 : Marker) : View	Provides a custom info window for a marker.	Return Type: View

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	28 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 6 Traceability: URS-09

Class Name: ShoppinglistDescription

ShoppinglistDescription
~rid : String ~jsonobject : JSONObject ~jsonarray : JSONArray ~contenttxt : TextView ~arraylist : ArrayList<HashMap<String, String>> ~mProgressDialog : ProgressDialog
+onCreate(savedInstanceState : Bundle) : void +bottombar() : void

Property

ID	Name	Description	Remark
1	rid	Set id recipe ID	Type: String
2	jsonobject	Object of JSONObject	Type: JSON object
3	jsonarray	Object of JSONArray	Type: JSON array
4	Contexttxt	Object of TextView	Type: TextView object
5	arraylist	Set Array List	Type: Array List
6	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog

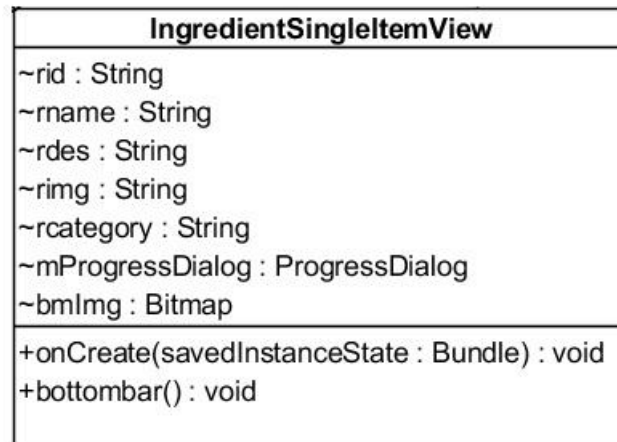
Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	29 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 7 Traceability: URS-16

Class Name: IngredientSingleItemView



Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	rname	Object of JSONObject	Type: JSON object
3	rdes	Set recipe description	Type: String
4	rimg	Set recipe image	Type: String
5	rcategory	Set category	Type: String
6	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog object
7	bmImg	Set bitmap from recipe image	Type: Bitmap object

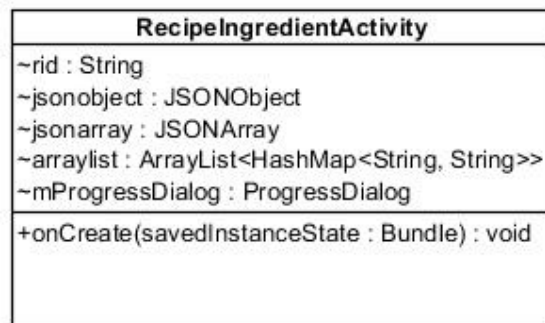
Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	30 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 8 Traceability: URS-05

Class Name: RecipeIngredientActivity



Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	jsonobject	Object of JSONObject	Type: JSON object
3	jsonarray	Object of JSONArray	Type: JSON array
4	arraylist	Set Array List	Type: Array List
5	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState

Application Class Diagram ID: 9 Traceability: URS-05, URS-11

Class Name: RecipeSingleItemView



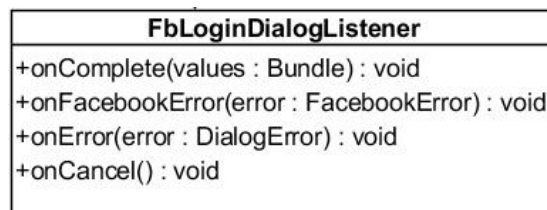
Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	rname	Object of JSONObject	Type: JSON object
3	rdes	Set recipe description	Type: String
4	rimg	Set recipe image	Type: String
5	rcategory	Set category	Type: String
6	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog object
7	BmImg	Set bitmap from recipe image	Type: Bitmap object
8	mFacebook	Object of Facebook	Type: Facebook object
9	mFacebookBtn	Object of Checkbox	Type: Checkbox object
10	PERMISSIONS	Set PERMISSIONS for connecting with Facebook	
11	APP_ID	Set Facebook API ID	Type: String
12	mFbHandler	Handler of successful message when connecting with Facebook	Type: Handler object
13	mHandler	Handler of unsuccessful message when connecting with Facebook	Type: Handler object

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	32 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void
3	facebook():void	The system calls this method to connect with Facebook account.	Return Type: void
4	onFacebookClick():void	The system calls this method to connect or leave from Facebook account.	Return Type: void
5	getFbName():void	The system calls this method to get Facebook account name.	Return Type: void
6	fbLogout():void	The system calls this method to logout from Facebook account.	Return Type: void

Application Class Diagram ID: 10 Traceability: URS-11**Class Name: FbLoginDialogListener****Property**

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	onComplete(values:Bundle):void	The system calls this method when successful to connecting with Facebook.	Return Type: void Parameter: values
2	onFacebookError(error: FacebookError):void	The system calls this method when unsuccessful to connecting with Facebook.	Return Type: void Parameter: error
3	onError(error:DialogError):void	The system calls this method to show error dialog when unsuccessful to connecting with Facebook.	Return Type: void Parameter: error
4	onCancel():void	The system calls this method to show error dialog when unsuccessful to cancel to connect with Facebook	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	33 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 11 Traceability: URS-05

Class Name: loadSingleView

loadSingleView
#onPostExecute() : void
#doInBackground(args : String ...) : String
#onPostExecute(args : String) : void

Property

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	onPostExecute() : void	invoked on the UI thread before the task is executed	Return Type: void
2	doInBackground (params : Void ...) : Void	invoked on the background thread immediately after onPostExecute() finishes executing	Return Type: void Parameter: params : Void ...
3	onPostExecute(args : Void) : void	invoked on the UI thread after the background computation finishes	Return Type: void Parameter: args

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	34 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 12 Traceability: URS-15

Class Name: IngredientDetailMainActivity

IngredientDetailMainActivity	
~jsonobject : JSONObject ~jsonarray : JSONArray ~listview : ListView ~mProgressDialog : ProgressDialog ~arraylist : ArrayList<HashMap<String, String>> ~IID : String ~INAME : String ~IDES : String ~IIMG : String ~ICATEGORY : String ~imgurl : String ~adapter : IngredientListViewAdapter	
+onCreate(savedInstanceState : Bundle) : void +bottombar() : void -isInternetConnected() : boolean -showAlertNoNet() : void	

Property

ID	Name	Description	Remark
1	jsonobject	Object of JSONObject	Type: JSON object
2	jsonarray	Object of JSONArray	Type: JSON array
3	listview	Object of ListView	Type: ListView object
4	arraylist	Set Array List	Type: Array List
5	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog
6	IID	Json node name for ingredient ID	Type: String
7	INAME	Json node name for ingredient name	Type: String
8	IDES	Json node name for ingredient description	Type: String
9	IIMG	Json node name for ingredient image	Type: String
10	ICATEGORY	Json node name for ingredient category	Type: String
11	imgurl	Set image Url	Type: String
12	adapter	Object of IngredientListViewAdapter	Type: RecipeListViewAdaper object

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void
3	isInternetConnected():boolean	The system calls this method for checking internet connection.	Return Type: boolean
4	showAlertNoNet(): void	The system calls this method to show alert message when no internet connection.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	35 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 13 Traceability: URS-15

Class Name: IngredientListViewAdapter

IngredientListViewAdapter	
~context : Context ~inflater : LayoutInflater ~data : ArrayList<HashMap<String, String>> ~imageLoader : ImageLoader	
+IngredientListViewAdapter(context : Context, arraylist : ArrayList<HashMap<String, String>>) +getCount() : int +getItem(position : int) : Object +getItemId(position : int) : long +getView(position : int, convertView : View, parent : ViewGroup) : View	

Property

ID	Name	Description	Remark
1	Context	Object of Context	Type: Context object
2	Inflater	Object of LayoutInflater	Type: LayoutInflater object
3	Data	Arraylist of data	Type: Array
4	imageLoader	Object of ImageLoarder class	Type: ImageLoarder object

Method

ID	Name	Description	Remark
1	IngredientListViewAdapter(context:context, arraylist : ArrayList<HashMap<String,String>>)	Constructor of IngredientListViewAdapter	Return Type: - Parameter: Context,Arraylist
2	getCount():int	How many items are in the data set represented by this Adapter	Return Type: int Parameter:
3	getItem(position : int) : Object	Get position of on click item	Return Type: Object Parameter: int
4	getItemId(position : int) : long	Get position of on click item	Return Type: long Parameter: int
5	getView(position : int,convertView : View , parent: ViewGroup) : View	Get a View that displays the data at the specified position in the data set.	Return Type: View Parameter: int, View, ViewGroup

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	36 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 14 Traceability: URS-04

Class Name: RecipeDetailMainActivity

RecipeDetailMainActivity
~jsonobject : JSONObject ~jsonarray : JSONArray ~listview : ListView ~mProgressDialog : ProgressDialog ~arraylist : ArrayList<HashMap<String, String>> ~RID : String ~RNAME : String ~RDES : String ~RIMG : String ~RCATEGORY : String ~imgurl : String ~adapter : RecipeListViewAdapter
+onCreate(savedInstanceState : Bundle) : void +bottombar() : void -isInternetConnected() : boolean -showAlertNoNet() : void

Property

ID	Name	Description	Remark
1	jsonobject	Object of JSONObject	Type: JSON object
2	jsonarray	Object of JSONArray	Type: JSON array
3	Listview	Object of ListView	Type: ListView object
4	arraylist	Set Array List	Type: Array List
5	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog
6	RID	Json node name for recipe ID	Type: String
7	RNAME	Json node name for recipe name	Type: String
8	RDES	Json node name for recipe description	Type: String
9	RIMG	Json node name for recipe image	Type: String
10	RCATEGORY	Json node name for recipe category	Type: String
11	Imgurl	Set image Url	Type: String
12	adapter	Object of RecipeListViewAdapter	Type: RecipeListViewAdaper object

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command botton on screen bottom.	Return Type: void
3	isInternetConnected():boolean	The system calls this method for checking internet connection.	Return Type: boolean
4	showAlertNoNet(): void	The system calls this method to show alert message when no internet connection.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	37 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 15 Traceability: URS-04

Class Name: RecipeListViewAdapter

RecipeListViewAdapter	
~context : Context ~inflater : LayoutInflater ~data : ArrayList<HashMap<String, String>> ~imageLoader : ImageLoader	
+RecipeListViewAdapter(context : Context, arraylist : ArrayList<HashMap<String, String>>) +getCount() : int +getItem(position : int) : Object +getItemId(position : int) : long +getView(position : int, convertView : View, parent : ViewGroup) : View	

Property

ID	Name	Description	Remark
1	Context	Object of Context	Type: Context object
2	Inflater	Object of LayoutInflater	Type: LayoutInflater object
3	Data	Arraylist of data	Type: Array
4	imageLoader	Object of ImageLoarder class	Type: ImageLoarder object

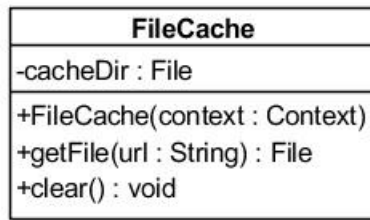
Method

ID	Name	Description	Remark
1	RecipeListViewAdapter(context:context, arraylist : ArrayList<HashMap<String,String>>)	Constructor of RecipeListViewAdaptor	Return Type: - Parameter: Context,Arraylist
2	getCount():int	How many items are in the data set represented by this Adapter	Return Type: int Parameter:
3	getItem(position : int) : Object	Get position of on click item	Return Type: Object Parameter: int
4	getItemId(position : int) : long	Get position of on click item	Return Type: long Parameter: int
5	getView(position : int,convertView : View , parent: ViewGroup) : View	Get a View that displays the data at the specified position in the data set.	Return Type: View Parameter: int, View, ViewGroup

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	38 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 16 Traceability: URS-05

Class Name: FileCache



Property

ID	Name	Description	Remark
1	cacheDir	Set cache directory	Type: File

Method

ID	Name	Description	Remark
1	FileCache(context : Context)	Construct of FileCache class	Return Type: - Parameter: Context
2	getFile(url : String) : File	Get file by url	Return Type: File Parameter: String
3	clear() : void	Clear file	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	39 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 17 Traceability: URS-04,05

Class Name: ImageLoader

ImageLoader
<pre>-imageViews : Map<ImageView, String> = Collections .synchronizedMap(new WeakHashMap<ImageView, String>()) ~executorService : ExecutorService ~handler : Handler = new Handler() ~stub_id : int = R.drawable.ic_launcher ~memoryCache : MemoryCache = new MemoryCache() ~fileCache : FileCache +ImageLoader(context : Context) +DisplayImage(url : String, imageView : ImageView) : void ~queuePhoto(url : String, imageView : ImageView) : void ~getBitmap(url : String) : Bitmap ~decodeFile(f : File) : Bitmap ~imageViewReused(photoToLoad : PhotoToLoad) : boolean +clearCache() : void</pre>

Property

ID	Name	Description	Remark
1	imageViews	Set cache directory	Type: Map
2	executorService	Object of ExecutorService	Type: ExecutorService object
3	handler	Object of handler	Type: handler object
4	stub_id	Set ID of default image	Type: int
5	MemoryCache	Object of MemoryCache	Type: MemoryCache object
6	fileCache	Object of FileCache	Type: FileCache object

Method

ID	Name	Description	Remark
1	imageLoader(context : android.content.Context)	Constructor of imageLoader class	Return Type: - Parameter: Context
2	DisplayImage(url : String, imageView : ImageView) : void	Display image	Return Type: void Parameter: String,ImageView
3	queuePhoto(url : String, imageView : ImageView) : void	Queue image	Return Type: void Parameter: String,ImageView
4	getBitmap(url : String) : Bitmap	Get Bitmap image from url	Return Type: Bitmap Parameter: String
5	decodeFile(f : File) :Bitmap	Decode image into Bitmap	Return Type: Bitmap Parameter: File
6	imageViewReused(photoToLoad : PhotoToLoad) : boolean	Reused image that already load	Return Type: boolean Parameter: PhotoToLoad
7	clearCache() : void	Clear cache file	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	40 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 18 Traceability: URS-04,05

Class Name: MemoryCache

MemoryCache
-TAG : String -cache : Map<String, Bitmap> = Collections .synchronizedMap(new LinkedHashMap<String, Bitmap>) -size : long <<Property>> -limit : long
+MemoryCache() +get(id : String) : Bitmap +put(id : String, bitmap : Bitmap) : void -checkSize() : void +clear() : void ~getSizeInBytes(bitmap : Bitmap) : long

Property

ID	Name	Description	Remark
1	TAG	Set TAG as String for debugging	Type: String
2	cache	Collection of cache file	Type: Map
3	Size	Size of cache file	Type: long
4	Limit	Limit of cache file	Type: long

Method

ID	Name	Description	Remark
1	MemoryCache()	Constructor of MemoryCache class	Return Type: -
2	get(id : String): Bitmap	Get cache file from string	Return Type: Bitmap Parameter: String
3	Put(id : String, bitmap : Bitmap) : void	Put cache file by Bitmap	Return Type: void Parameter: Bitmap
4	checkSize() : void	Check size of cache file	Return Type: void
5	clear() : void	Clear cache file	Return Type: void
6	getSizeInBytes(bitmap : Bitmap): long	Get size of cache file (in bytes) by Bitmap	Return Type: long Parameter: Bitmap

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	41 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 19 Traceability: URS-02

Class Name: LoginActivity

LoginActivity
+url : String
+result : String
#onCreate(savedInstanceState : Bundle) : void
+login() : String
+postData(url : String, nameValuePairs : List<NameValuePair>) : String
-isInternetConnected() : boolean
-showAlertNoNet() : void

Property

ID	Name	Description	Remark
1	url	Set URL Link for access to web server	Type: String
2	result	Using in WebPageTask() class	Type: String

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Login()	Get username and password into ArrayList and sent to server by postData() method	Return Type: String Parameter: -
3	postData(url:String , nameValuePairs: List<NameValuePair>):String	Sent data to server following URL	Return Type: String Parameter: -
4	isInternetConnected():boolean	The system calls this method for checking internet connection.	Return Type: boolean
5	showAlertNoNet(): void	The system calls this method to show alert message when no internet connection.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	42 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 20 Traceability: URS-01

Class Name: RegisterActivity

RegisterActivity
-edittext_username : EditText -edittext_password : EditText -edittext_display : EditText +urlHost : String +result : String
#onCreate(savedInstanceState : Bundle) : void -registerViews() : void +signUp() : String +postData(url : String, nameValuePairs : List<NameValuePair>) : String -checkValidation() : boolean

Property

ID	Name	Description	Remark
1	edittext_username	Input text for username	Type: EditText
2	edittext_password	Input text for password	Type: EditText
3	edittext_display	Input text for display name	Type: EditText
4	urlHost	Set URL Link for access to web server	Type: String
5	result	Using in WebPageTask() class	Type: String

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	registerViews()	Get data from EditText to checkValidation	Return Type: void Parameter: -
3	signup():String	Get username , password and display name into ArrayList and sent to server by postData() method	Return Type: String Parameter: -
4	postData(url:String , nameValuePairs: List<NameValuePair>):String	Sent data to server following URL	Return Type: String Parameter: -
5	checkValidation():boolean	Method for check validation of input information which are username ,password ,display name	Return Type: boolean Parameter: -

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	43 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 21 Traceability: -**Class Name: HomeActivity**

HomeActivity
+onCreate(savedInstanceState : Bundle) : void

Property

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState

Application Class Diagram ID: 22 Traceability: -**Class Name: SettingActivity**

SettingActivity
+onCreate(savedInstanceState : Bundle) : void

Property

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState

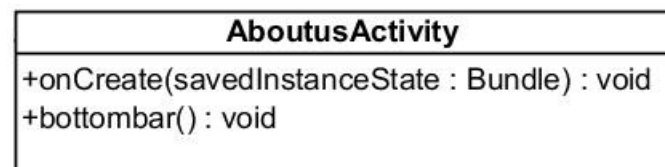
Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	44 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 23 Traceability: -**Class Name:>AboutusActivity****Property**

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Application Class Diagram ID: 24 Traceability: -**Class Name: ContractusActivity****Property**

ID	Name	Description	Remark
-	-	-	-

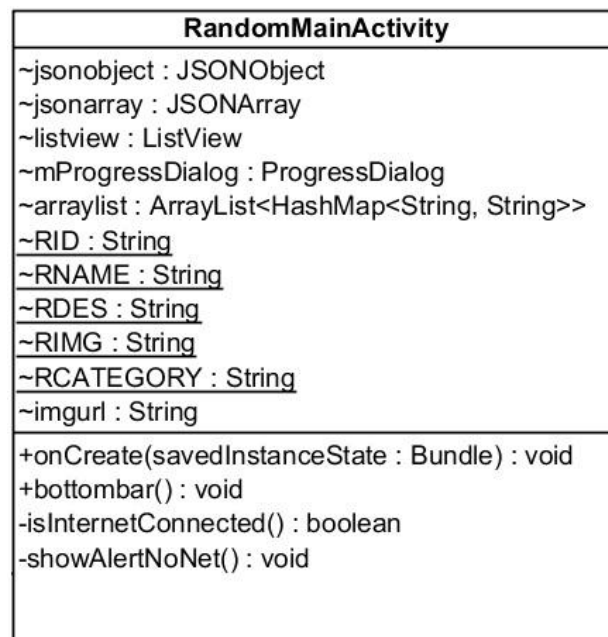
Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	45 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 25 Traceability: URS-10

Class Name: RandomActivity



Property

ID	Name	Description	Remark
1	jsonobject	Object of JSONObject	Type: JSON object
2	jsonarray	Object of JSONArray	Type: JSON array
3	listview	Object of ListView	Type: ListView object
4	arraylist	Set Array List	Type: Array List
5	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog
6	RID	Json node name for recipe ID	Type: String
7	RNAME	Json node name for recipe name	Type: String
8	RDES	Json node name for recipe description	Type: String
9	RIMG	Json node name for recipe image	Type: String
10	RCATEGORY	Json node name for recipe category	Type: String
11	Imgurl	Set image Url	Type: String

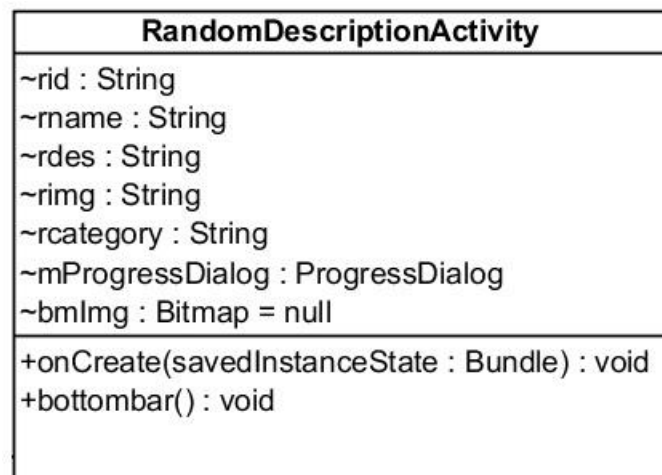
Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void
3	isInternetConnected():boolean	The system calls this method for checking internet connection.	Return Type: boolean
4	showAlertNoNet(): void	The system calls this method to show alert message when no internet connection.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	46 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 26 Traceability: URS-10

Class Name: RandomDescriptionActivity



Property

ID	Name	Description	Remark
1	rid	Set id recipe	Type: String
2	rname	Object of JSONObject	Type: JSON object
3	rdes	Set recipe description	Type: String
4	rimg	Set recipe image	Type: String
5	rcategory	Set category	Type: String
6	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog object
7	bmImg	Set bitmap from recipe image	Type: Bitmap object

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	47 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 27 Traceability: URS-10

Class Name: RandomActionActivity

RandomActionActivity
~sensorManager : SensorManager ~sensor : Sensor ~mProgressDialog : ProgressDialog ~rid : String ~rname : String ~rdes : String ~rimg : String ~rcate : String ~accelListener : SensorEventListener = new SensorEventListener()
+onCreate(savedInstanceState : Bundle) : void +onResume() : void +onStop() : void +bottombar() : void

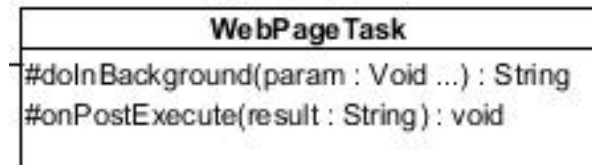
Property

ID	Name	Description	Remark
1	sensorManager	Object of sensor manager for using sensor service	Type: SensorManager Object
2	sensor	Object of sensor	Type: Sensor Object
3	rid	Set id recipe	Type: String
4	rname	Object of JSONObject	Type: JSON object
5	rdes	Set recipe description	Type: String
6	rimg	Set recipe image	Type: String
7	rcate	Set category	Type: String
8	mProgressDialog	Object of ProgressDialog	Type: ProgressDialog object
9	accelListener	Set listener for accelerometer event	Type: SensorEventListener Object

Method

ID	Name	Description	Remark
1	onCreate(savedInstanceState : Bundle) : void	The system calls this when creating the activity	Return Type: void Parameter: savedInstanceState
2	Bottombar():void	The system calls this method for setting command button on screen bottom.	Return Type: void
3	onResume() : void	Called when the activity will start interacting with the user. At this point your activity is at the top of the activity stack, with user input going to it. Always followed by onPause().	Return Type: void
4	onPause() : void	Called when the system is about to start resuming a previous activity.	Return Type: void

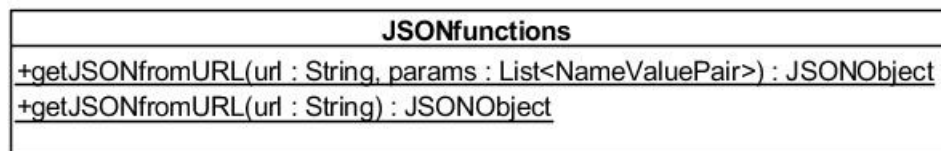
Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	48 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 28 Traceability: URS-01,02**Class Name: WebPageTask****Property**

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	doInBackground(param : Void ...) : String	Override this method to perform a computation on a background thread	Return Type: String Parameter: param
2	onPostExecute(result:String): void	Runs on the UI thread after doInBackground(param : Void ...)	Return Type: void Parameter: result

Application Class Diagram ID: 29 Traceability: URS-04,05,06,07,08,09,10,11**Class Name: JSONfunctions****Property**

ID	Name	Description	Remark
-	-	-	-

Method

ID	Name	Description	Remark
1	getJSONfromURL(url : String, params : List<NameValuePair>)	Get JSON form URL by parameters (url,params)	Return Type: JSONObject Parameter: url,params
2	getJSONfromURL(url : String)	Get JSON form URL by parameters (url)	Return Type: void Parameter:

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	49 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 30 Traceability: URS-01,02

Class Name: Validation

Validation
<u>-EMAIL_REGEX : String</u> <u>-REQUIRED_MSG : String</u> <u>-EMAIL_MSG : String</u>
<u>+isEmailAddress(editText : EditText, required : boolean) : boolean</u> <u>+isValid(editText : EditText, regex : String, errMsg : String, required : boolean) : boolean</u> <u>+hasText(editText : EditText) : boolean</u>

Property

ID	Name	Description	Remark
1	EMAIL_REGEX	String for checking valid input email data	Type: String
2	REQUIRED_MSG	Required text that show when input invalid data	Type: String
3	EMAIL_MSG	Required text that show when input invalid email	Type: String

Method

ID	Name	Description	Remark
1	isEmailAddress(editText:EditText,required:boolean): boolean	Check email validation	Return Type: boolean Parameter: editText, required
2	isValid(editText:EditText, regex:String ,errMsg : String , required :boolean):boolean	Check input field is valid	Return Type: boolean Parameter: editText,regex,errMsg, required
3	hasText(editText:EditText): boolean	Check input field has any text of not	Return Type: boolean Parameter: required

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	50 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

Application Class Diagram ID: 31 Traceability: URS-06,07,08,09

Class Name: myDBClass

myDBClass
-DATABASE_VERSION : int -DATABASE_NAME : String -TABLE_NAME : String
+myDBClass(context : Context) +onCreate(db : SQLiteDatabase) : void +InsertData(Username : String, RecipeID : String) : long +SelectData(Username : String) : String [] +SelectAllData(Username : String) : ArrayList<HashMap<String, String>> +DeleteData(RecipeID : String, Username : String) : void

Property

ID	Name	Description	Remark
1	DATABASE_VERSION	Set database version	Type: : int
2	DATABASE_NAME	Set database name	Type: String
3	TABLE_NAME	Set table name	Type: String

Method

ID	Name	Description	Remark
1	myDBClass(context : android.content.Context)	Constructor of myDBClass	Return Type: - Parameter: Context
2	onCreate(db : SQLiteDatabase) : void	Create SQLite Database	Return Type: void Parameter: db
3	InsertData(Username : String, RecipeID : String) : long	InsertData by using Username and RecipeID	Return Type: long Parameter: Username, RecipeID
4	SelectData(Username : String) : String []	Select data from username	Return Type: String [] Parameter: Username
5	SelectAllData(Username : String) : ArrayList<java.util.HashMap<String, String>>	Select all data from username	Return Type: String [] Parameter: ArrayList
6	DeleteData(RecipeID : String, Username : String) : void	Delete data from username and recipe id	Return Type: void Parameter: Username , RecipeID

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	51 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

3.1 Sequence diagram

SQ01: User Register

SQ01:User Register

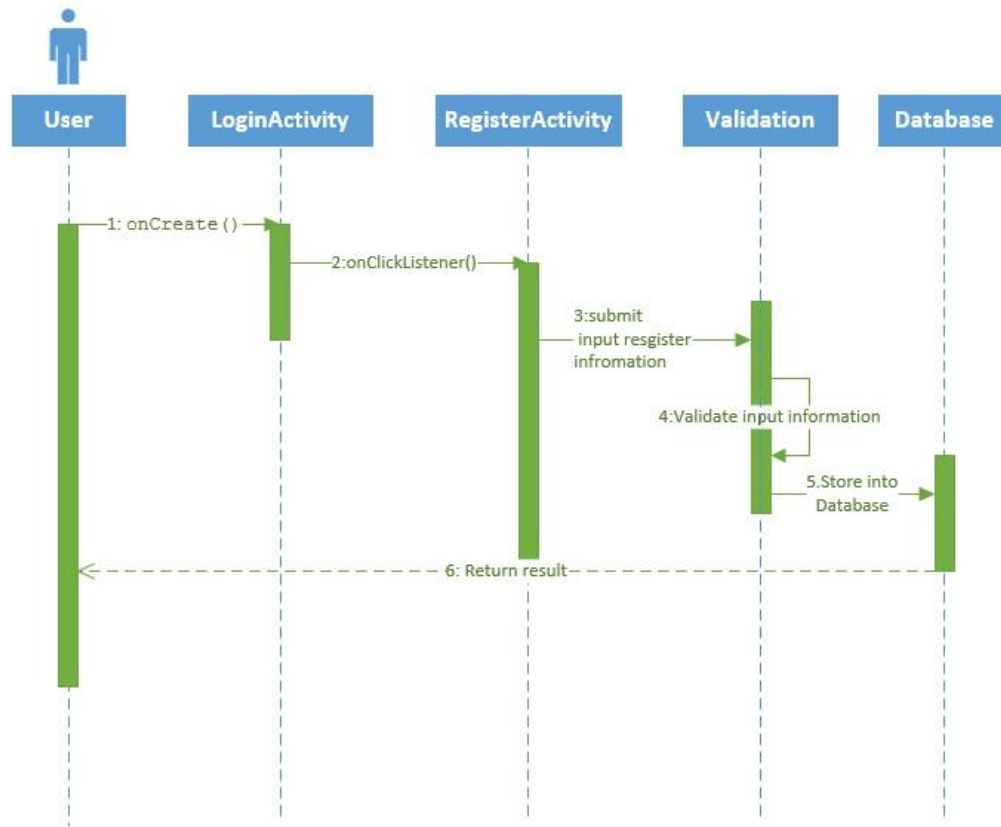


Figure 4 SQ01: User Register

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	52 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ02: User Login

SQ02:User Login

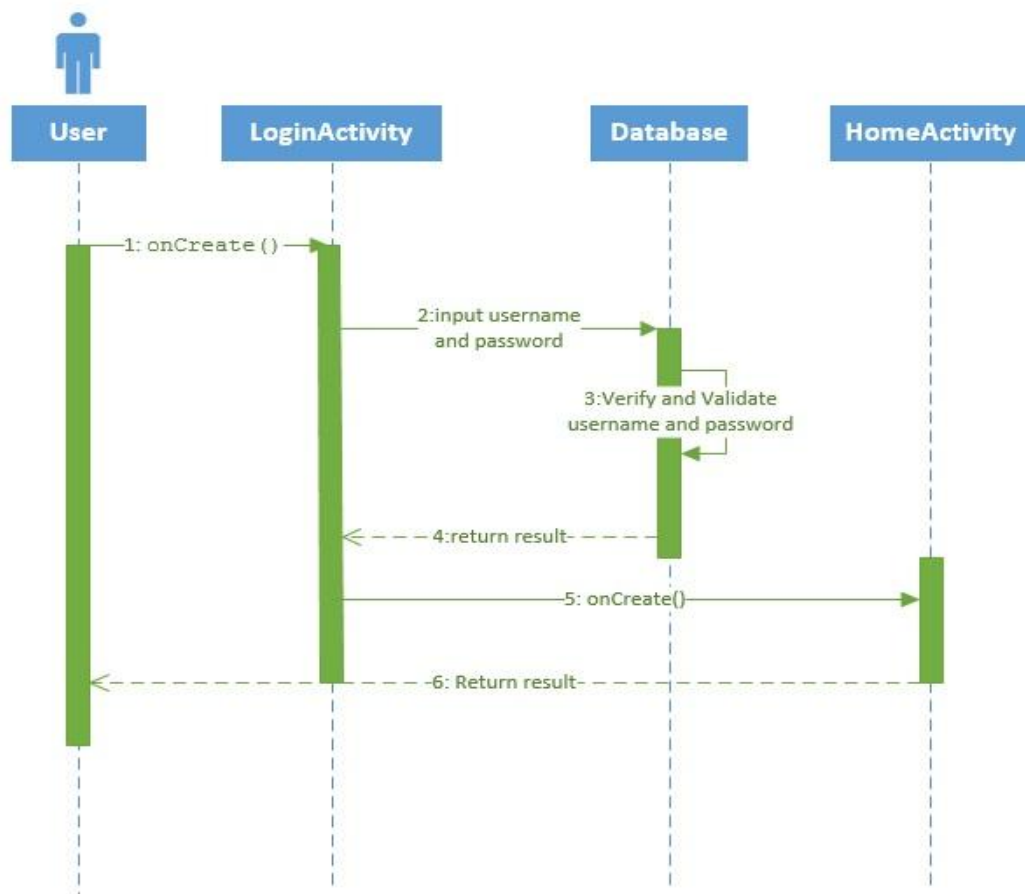


Figure 5 SQ02: User Login

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	53 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ03: User Logout

SQ03:User Logout

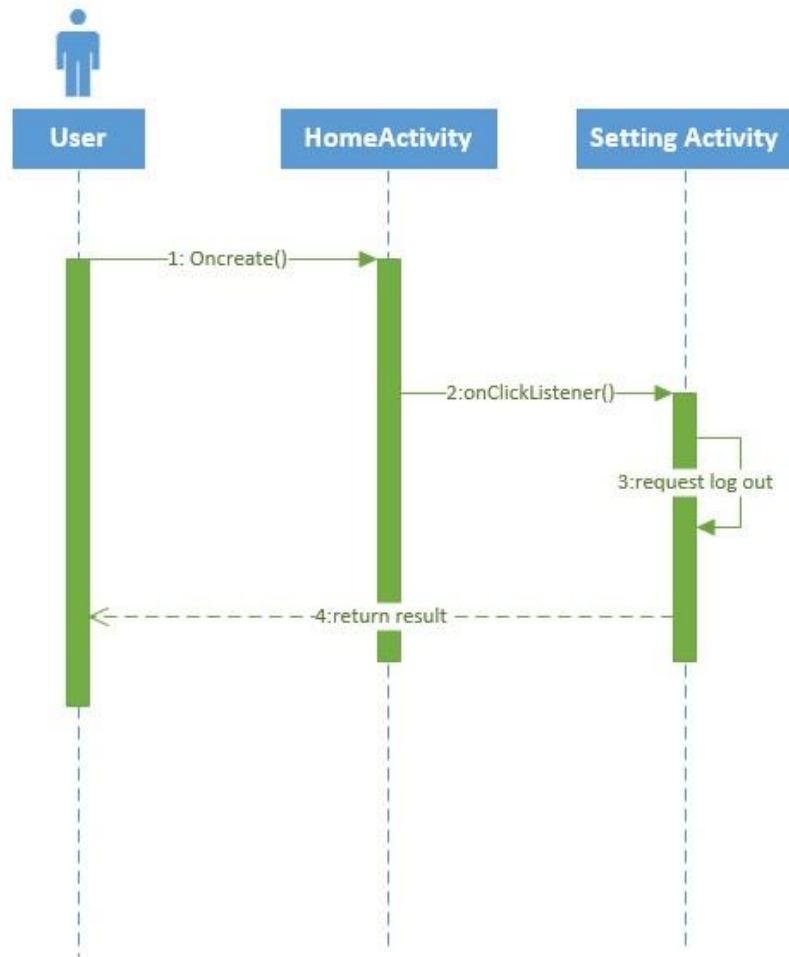


Figure 6 SQ03: User Logout

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	54 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ04: View list of recipe

SQ04:View list of recipe

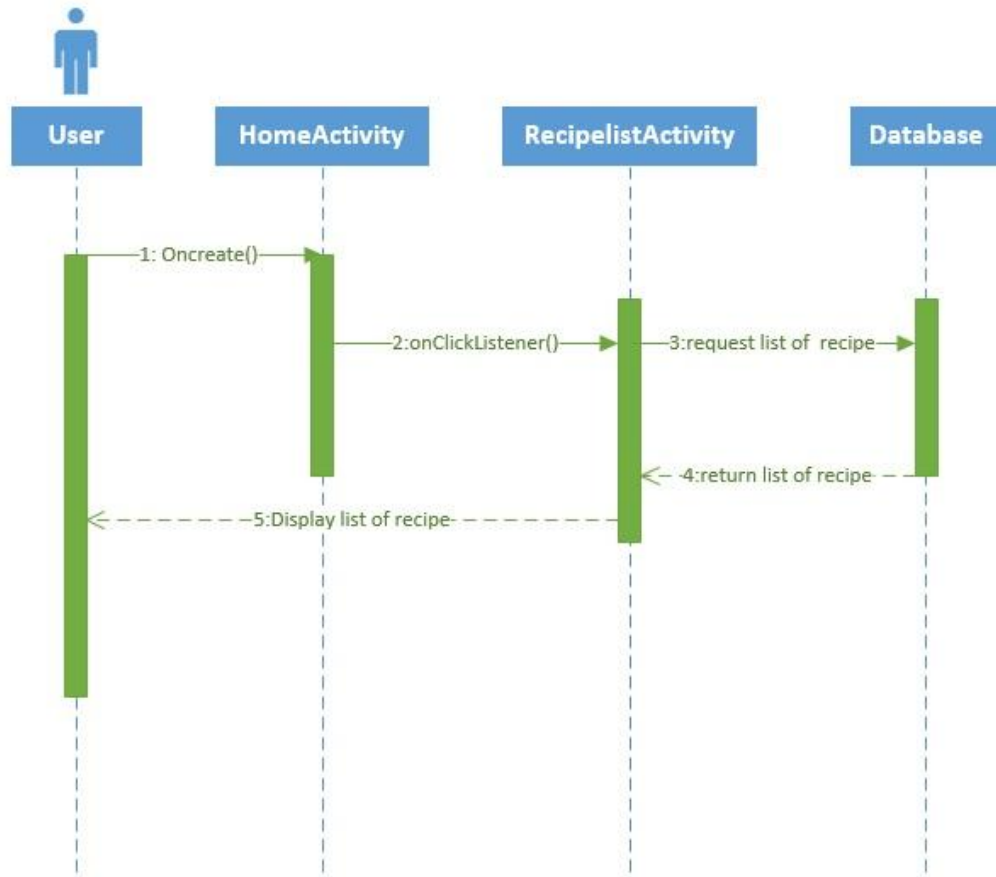


Figure 7 SQ04: View list of recipe

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	55 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ05: View recipe information

SQ05:View recipe information

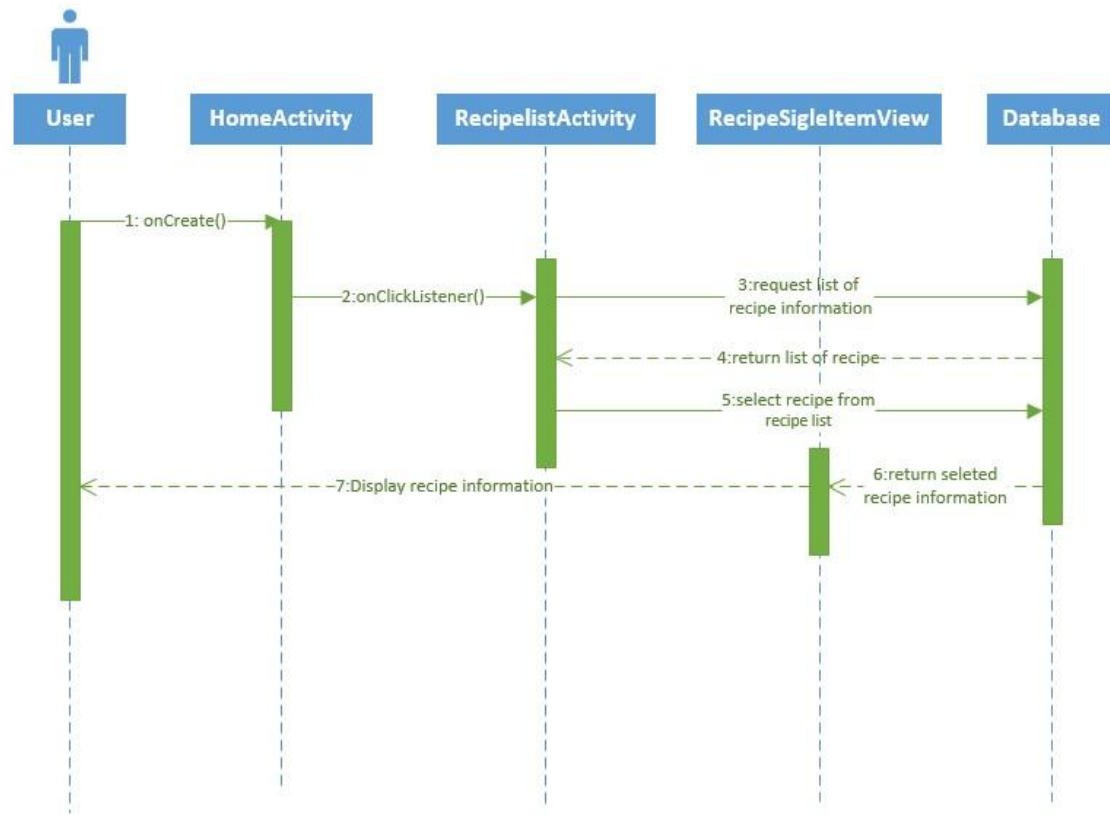


Figure 8 SQ05: View recipe information

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	56 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ06: Add menu to shopping list

SQ06:Add menu to shopping list

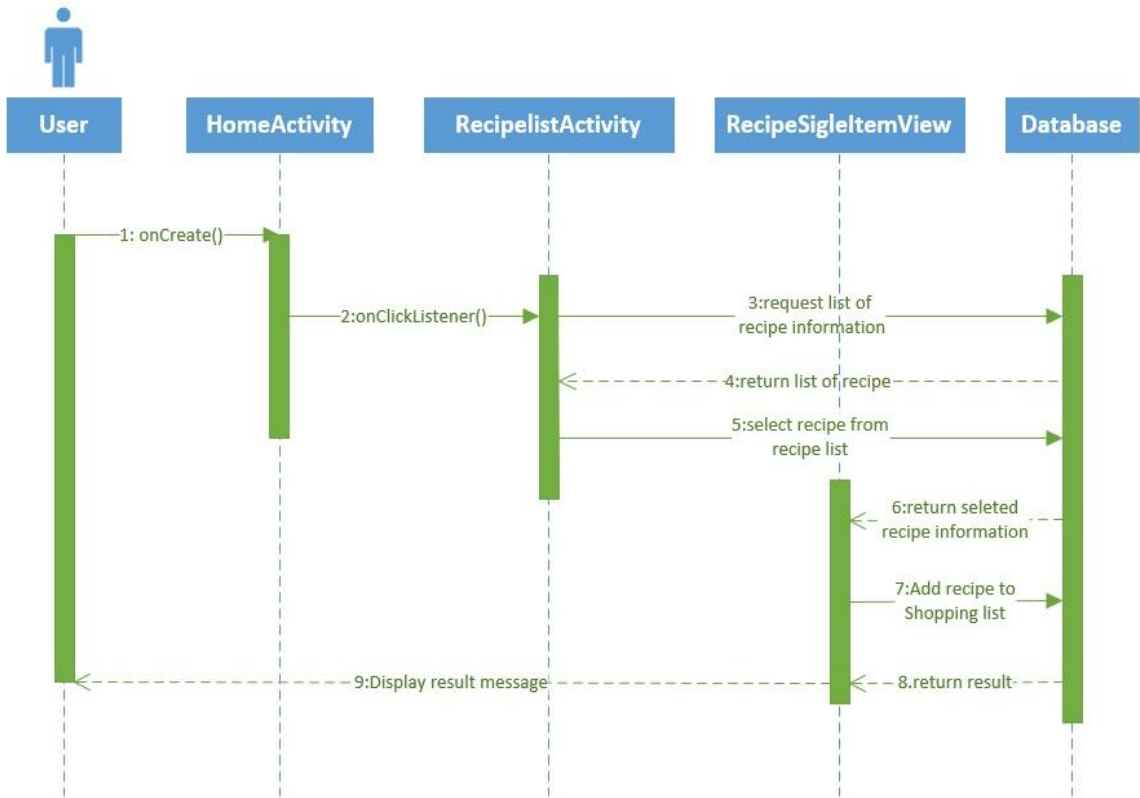


Figure 9 SQ06: Add menu to shopping list

SQ07: Delete menu from shopping list

SQ07:Delete menu from shopping list

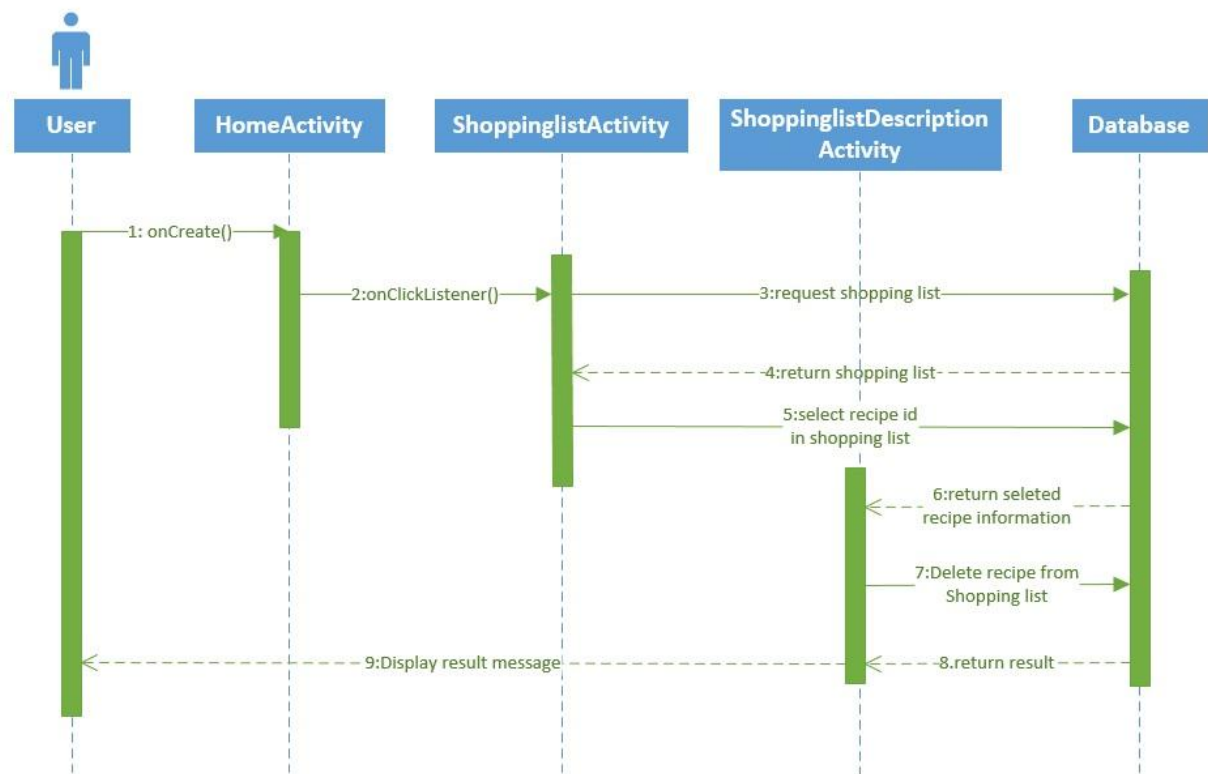


Figure 10 SQ07: Delete menu from shopping list

SQ08: View list of menu in shopping list

SQ08:view list of menu in shopping list

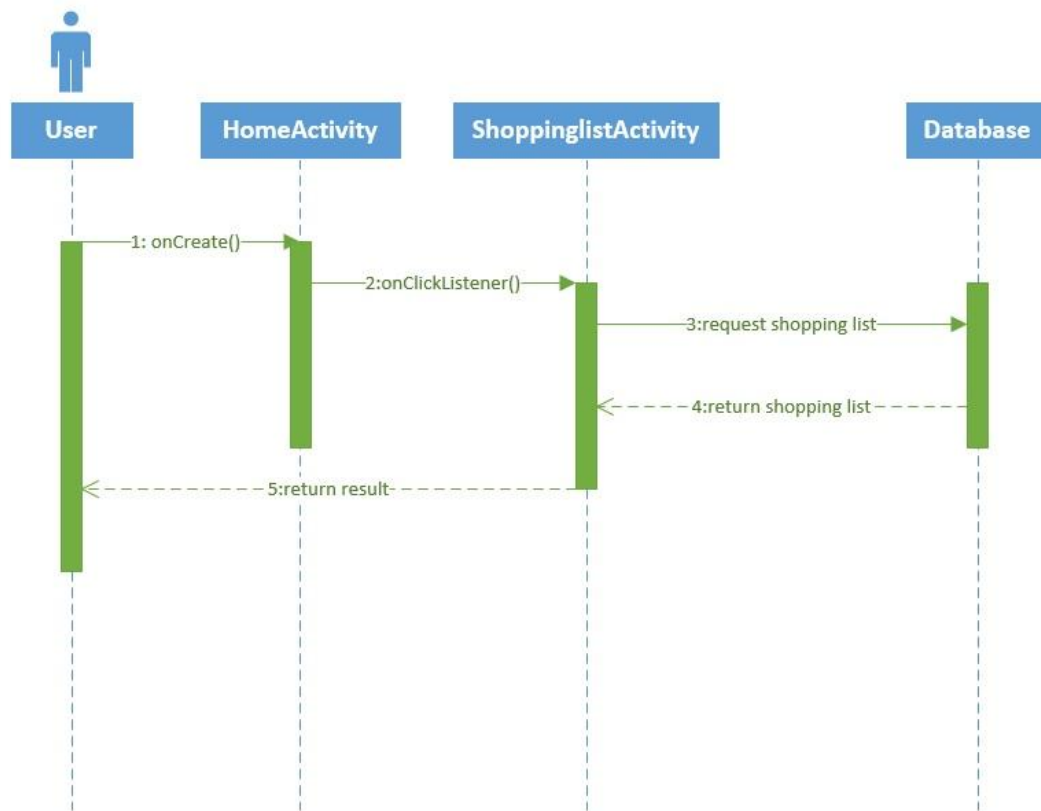


Figure 11 SQ08: View list of menu in shopping list

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	59 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ09: View information of recipe in shopping list

SQ09:View information of recipe in shopping list

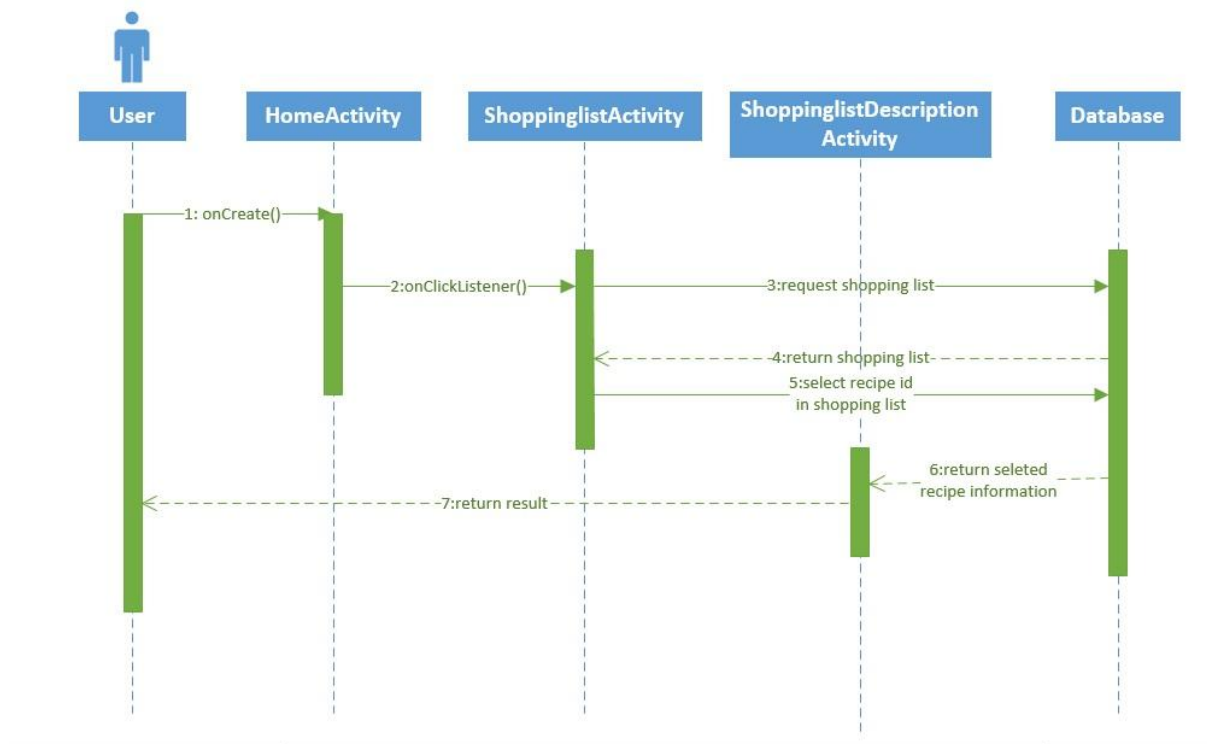


Figure 12 SQ09: View information of recipe in shopping list

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	60 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ10: Random food menu

SQ10:Random food menu

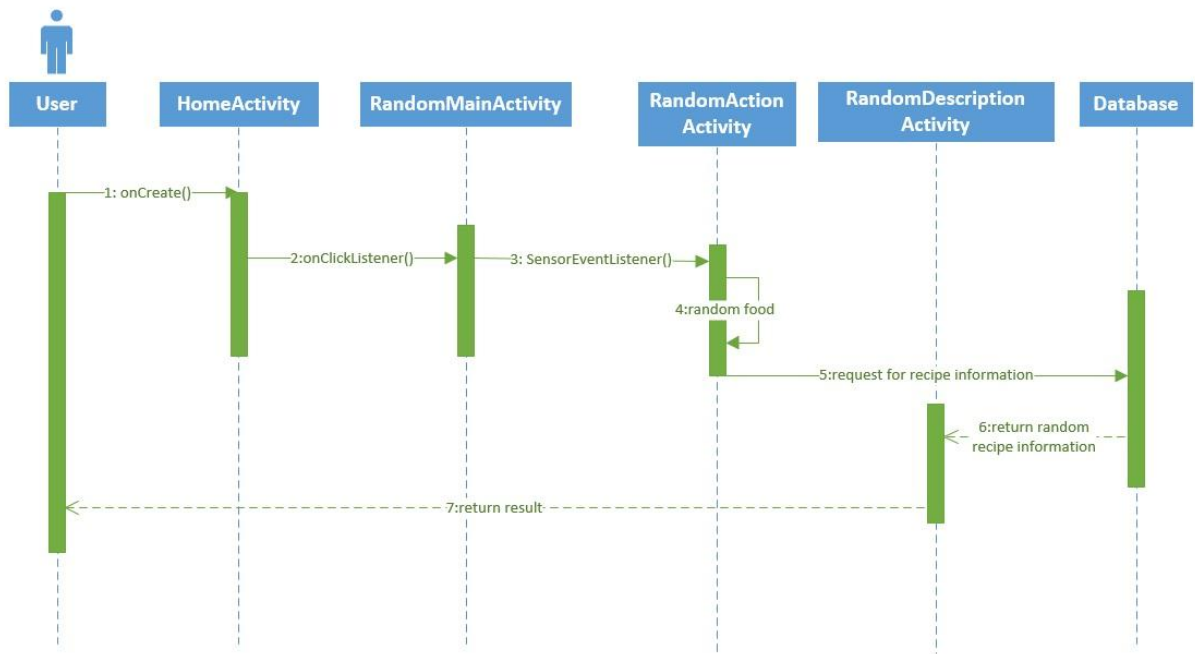


Figure 13 SQ10: Random food menu

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	61 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ11: Sharing menu on Facebook

SQ11: Sharing menu on facebook

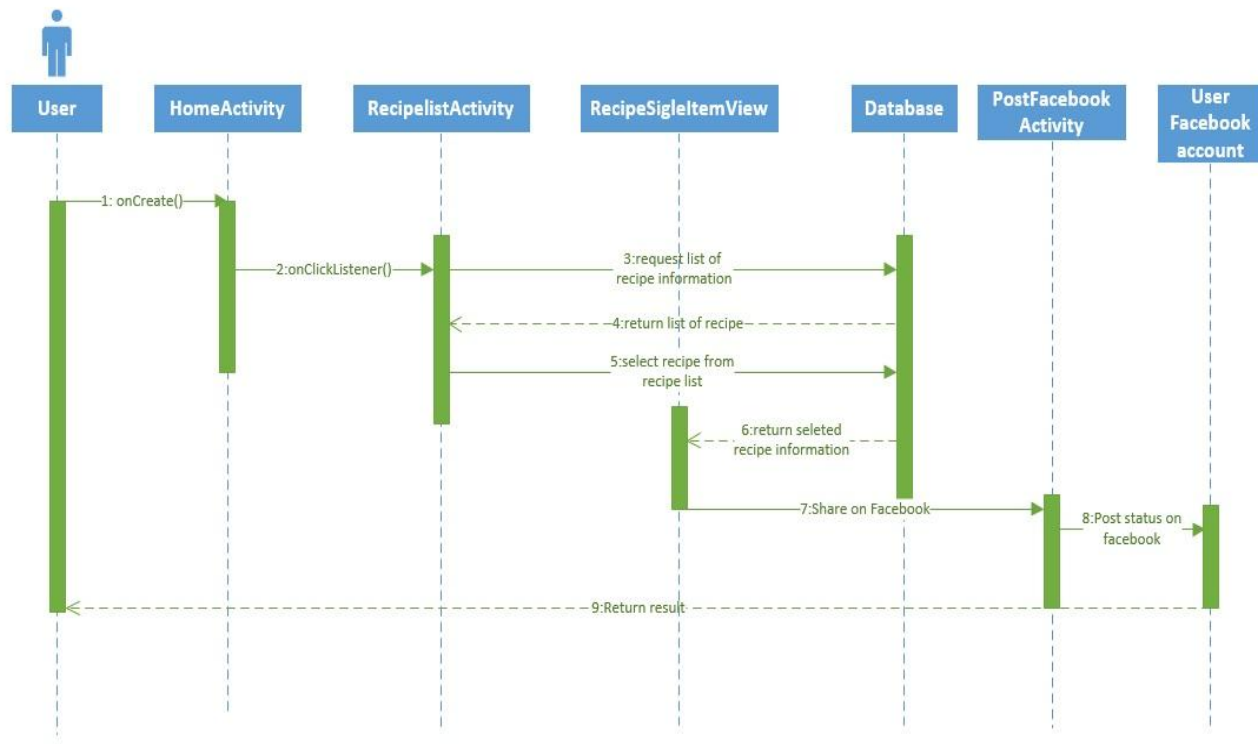
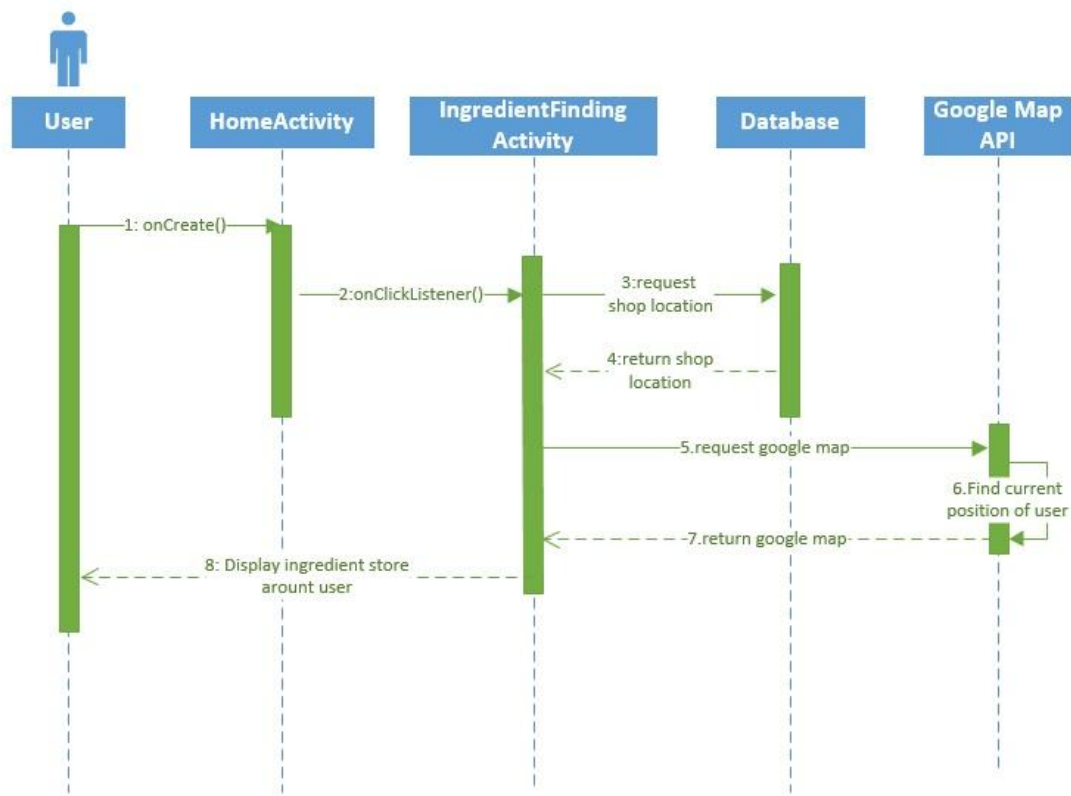


Figure 14 SQ11: Sharing menu on Facebook

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	62 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ12: View ingredient store location around user location on Google map

SQ12:View ingredient store location around user location on Google map



**Figure 15 SQ12: View ingredient store location
around user location on Google map**

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	63 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ13: View ingredient store location information

SQ13:View ingredient store location information

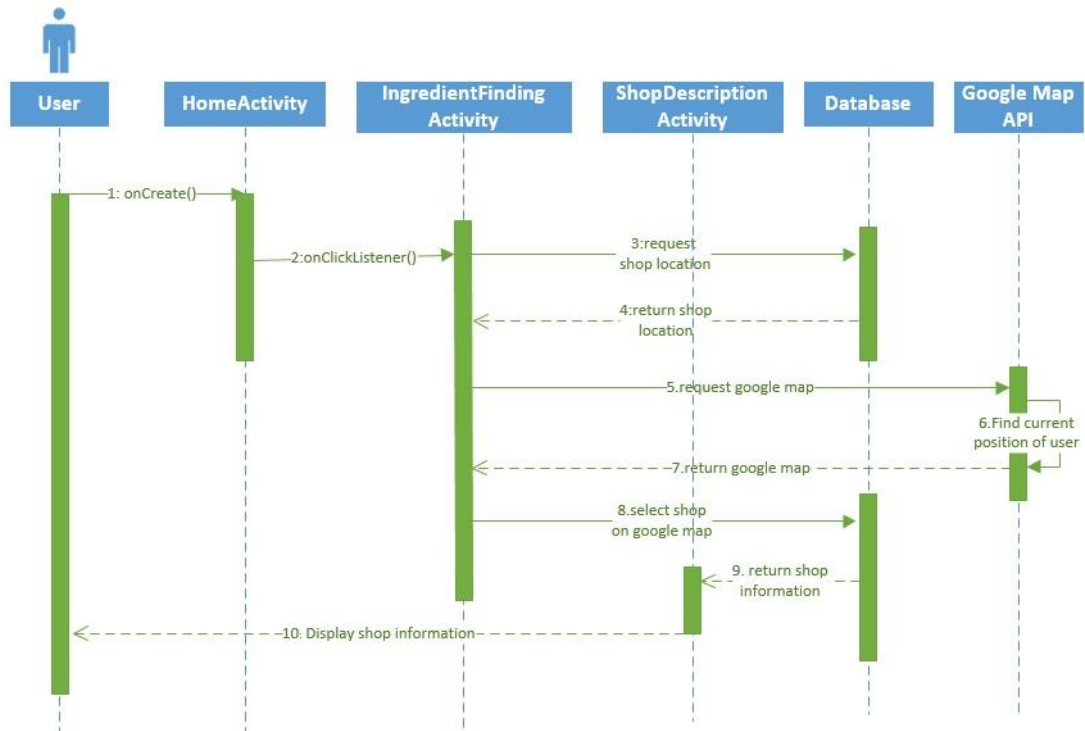


Figure 16 SQ13: View ingredient store location information

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	64 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ14: Get direction between user and ingredient store location

SQ14: Get direction between user and ingredient store location

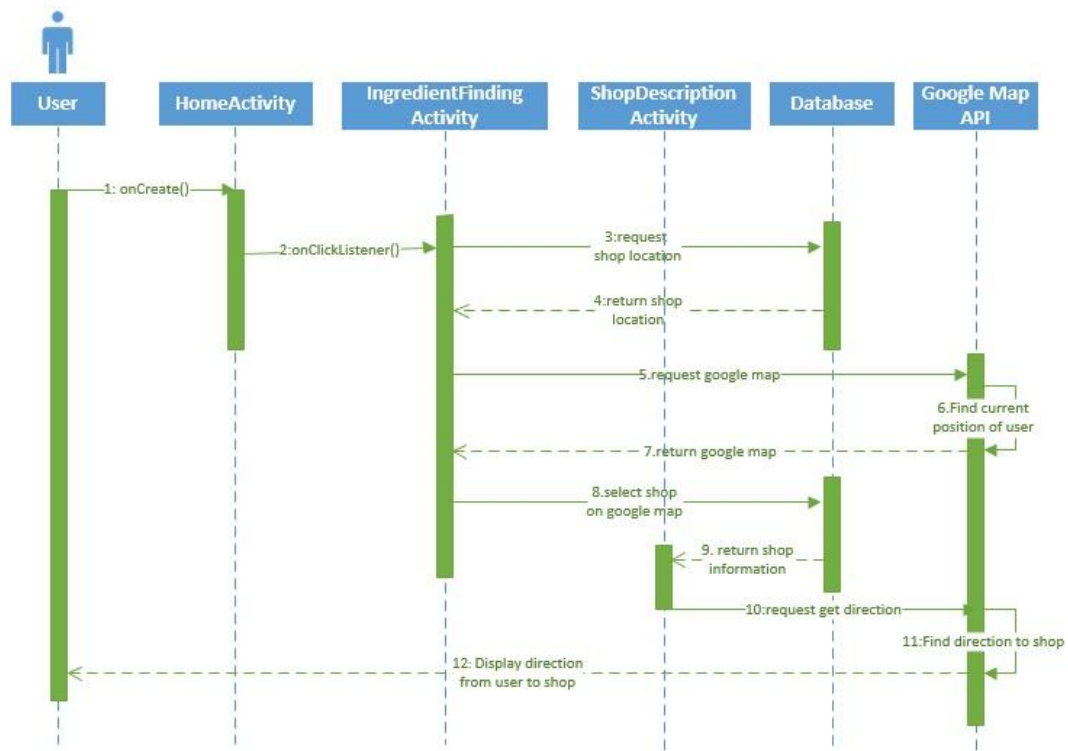


Figure 17 SQ14: Get direction between user and ingredient store location

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	65 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ15: View list of ingredient

SQ15:View list of ingredient

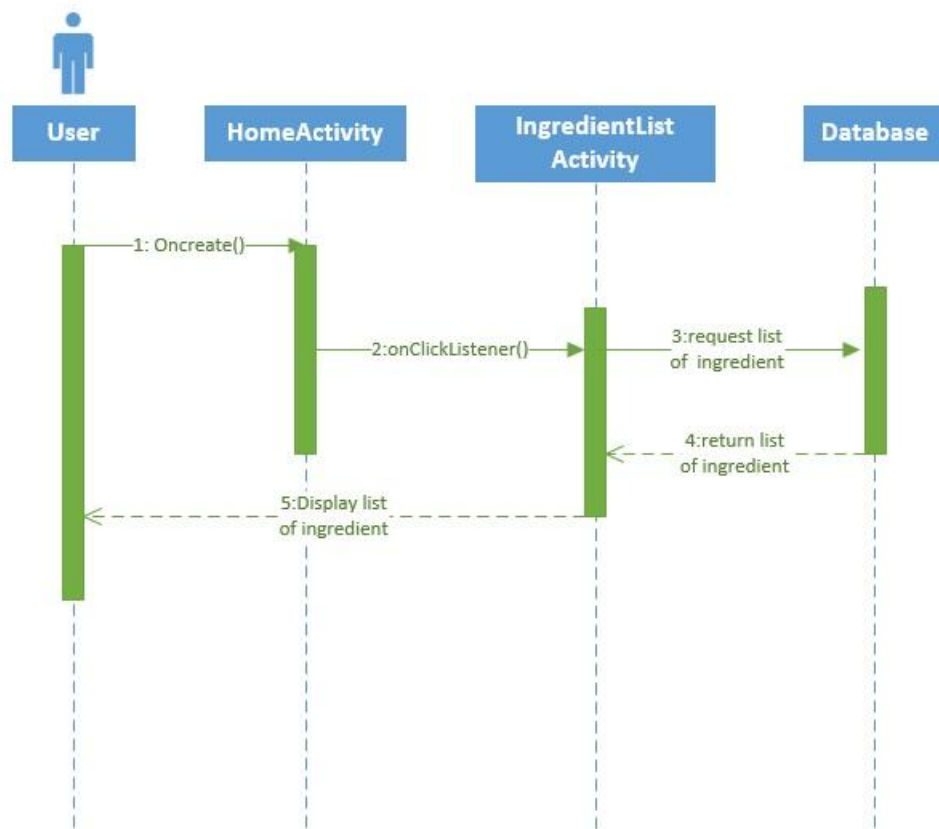


Figure 18 SQ15: View list of ingredient

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	66 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ16: View ingredient information

SQ16:View ingredient information

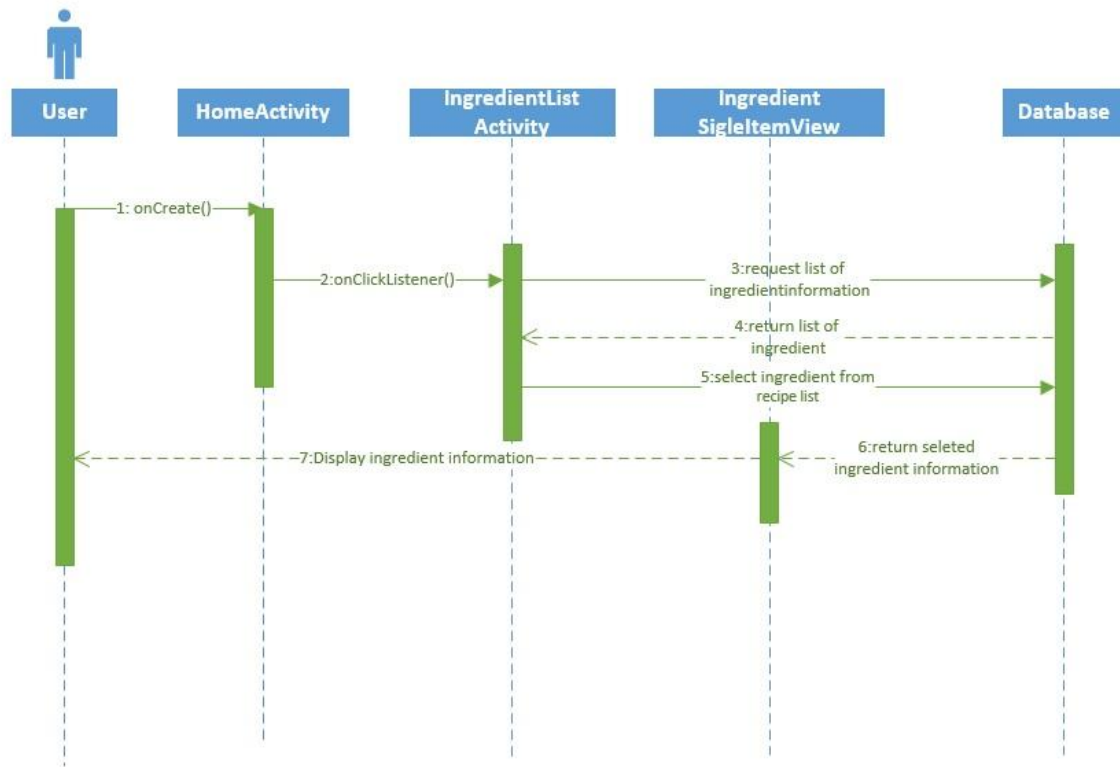


Figure 19 SQ16: View ingredient information

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	67 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ17: Admin logins

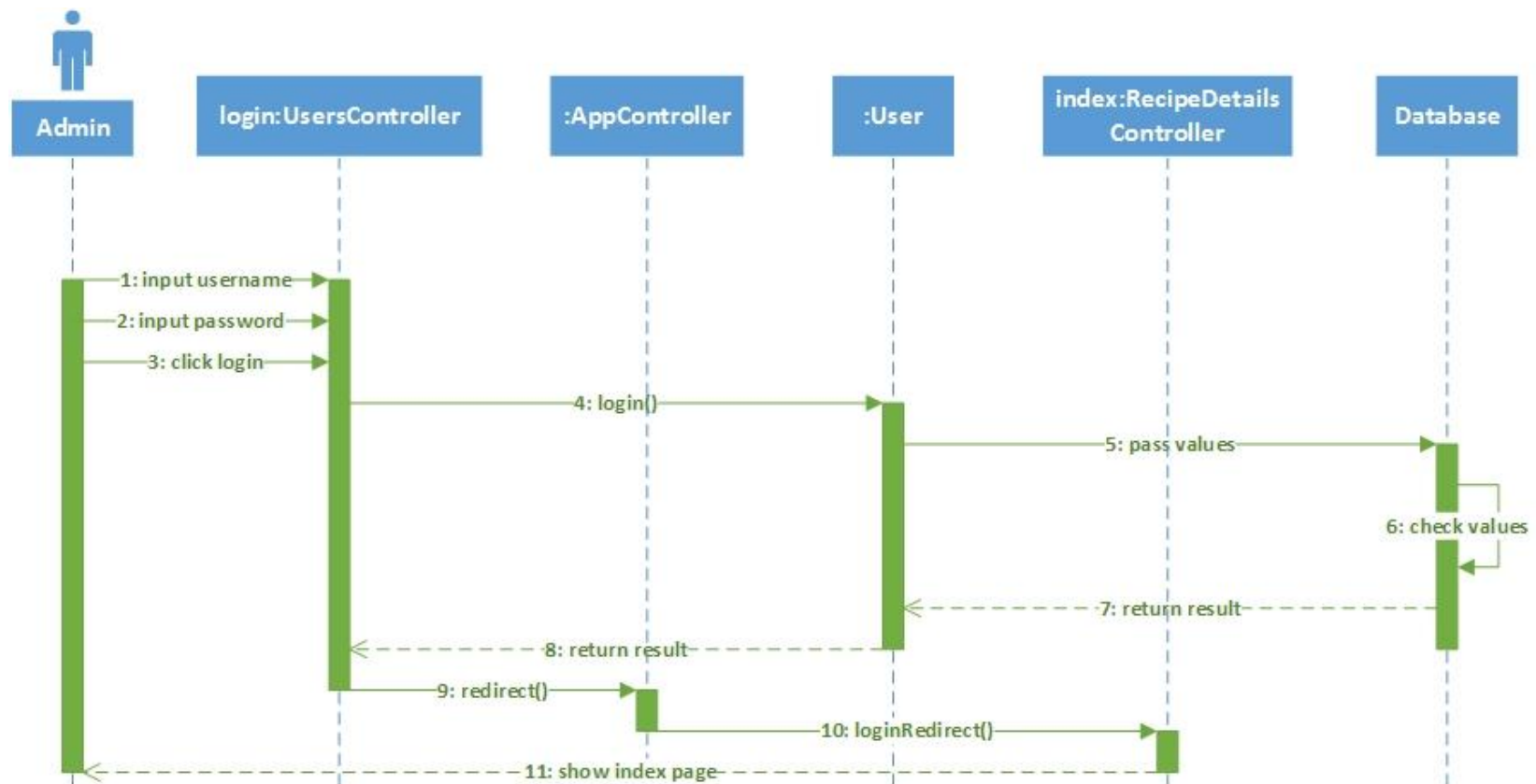


Figure 20 SQ17: Admin logins

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	68 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ18: Admin logouts

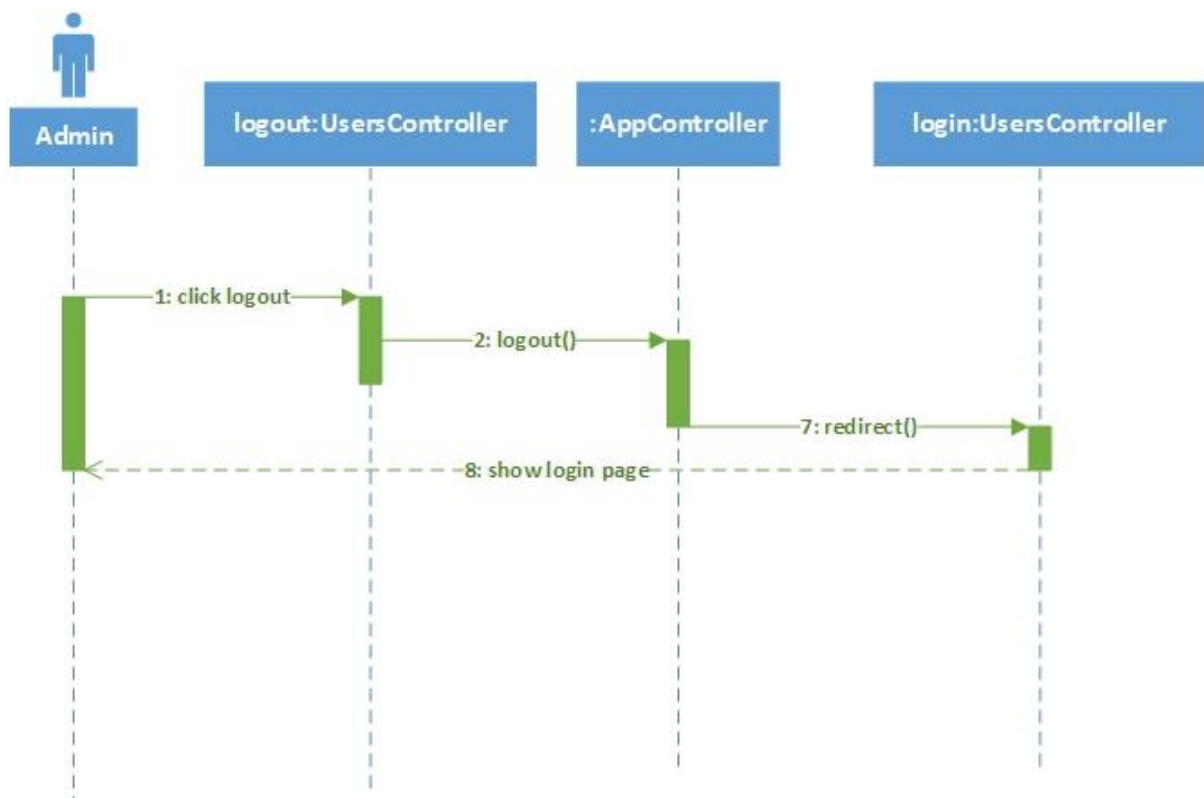


Figure 21 SQ18: Admin logouts

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	69 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ19: Admin views recipe detail

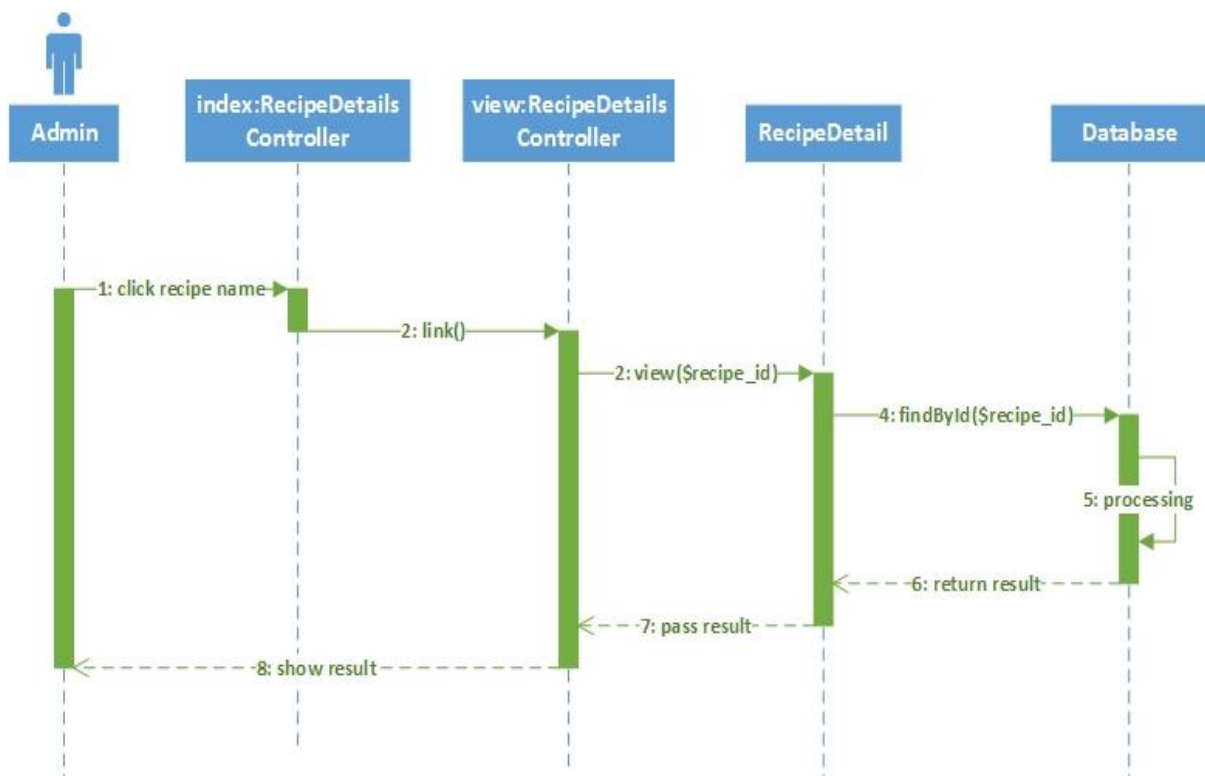


Figure 22 SQ19: Admin views recipe detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	70 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ20: Admin adds recipe detail

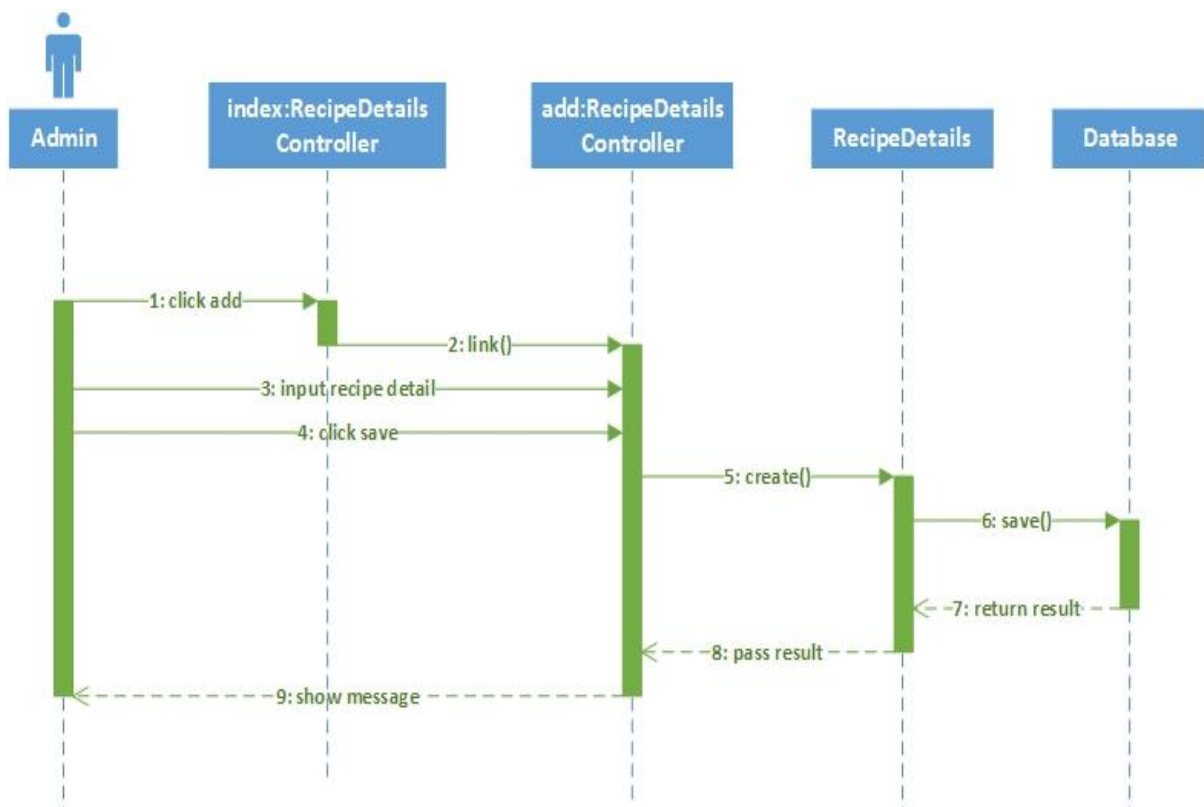


Figure 23 SQ20: Admin adds recipe detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	71 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ21: Admin edits recipe detail

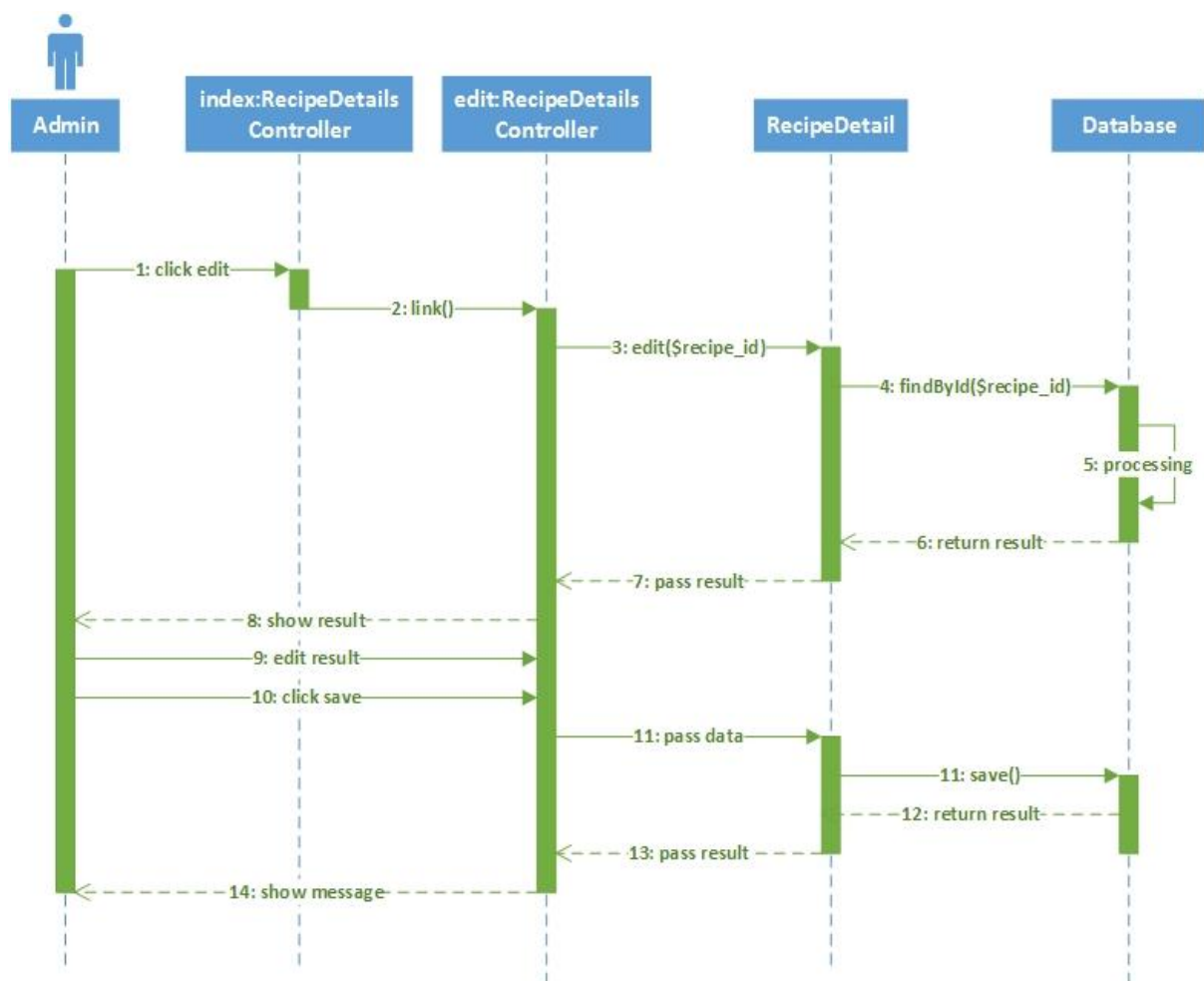


Figure 24 SQ21: Admin edits recipe detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	72 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ22: Admin deletes recipe detail

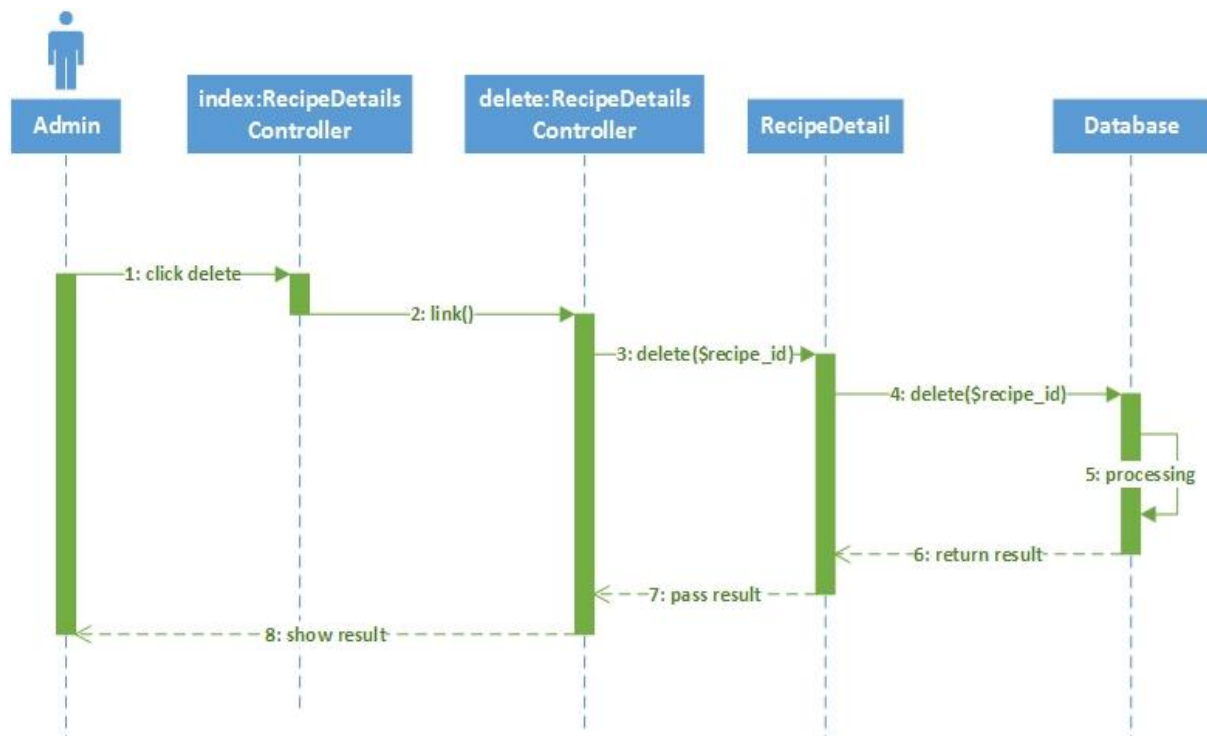


Figure 25 SQ22: Admin delete recipe detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	73 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ23: Admin views ingredient detail

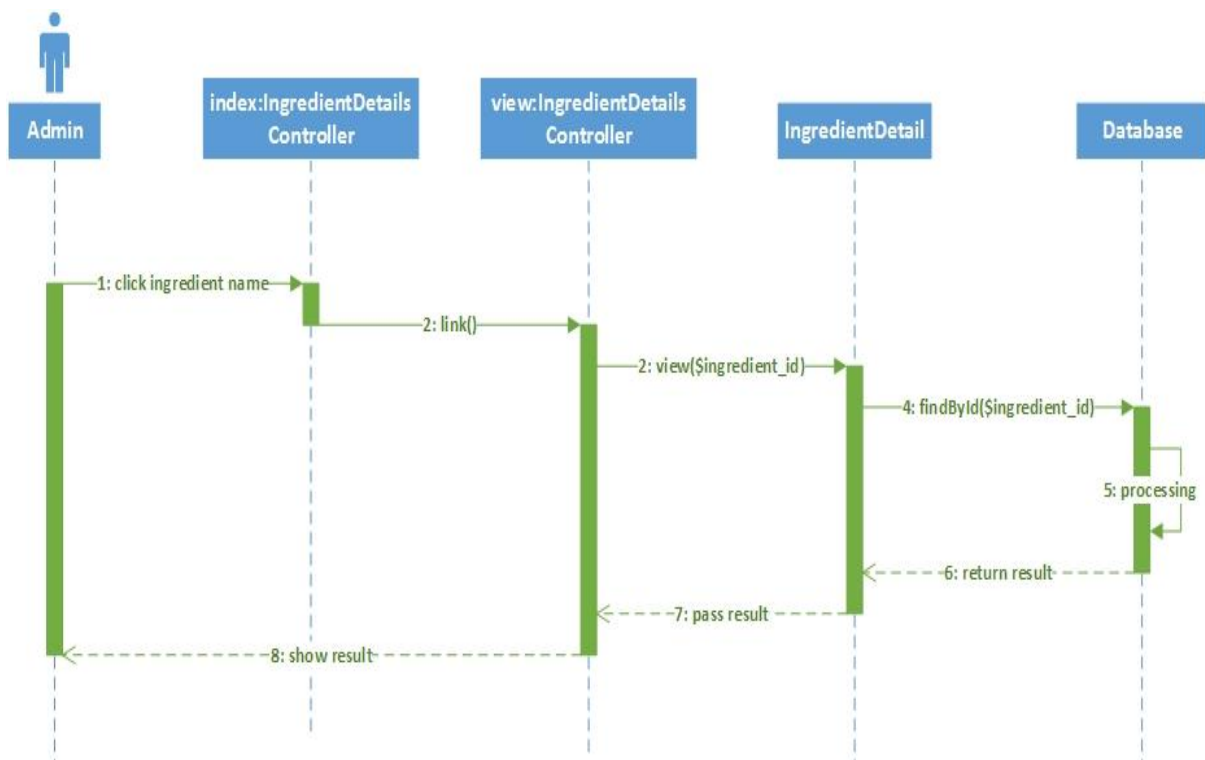


Figure 26 SQ23: Admin views ingredient detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	74 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ24: Admin adds ingredient detail

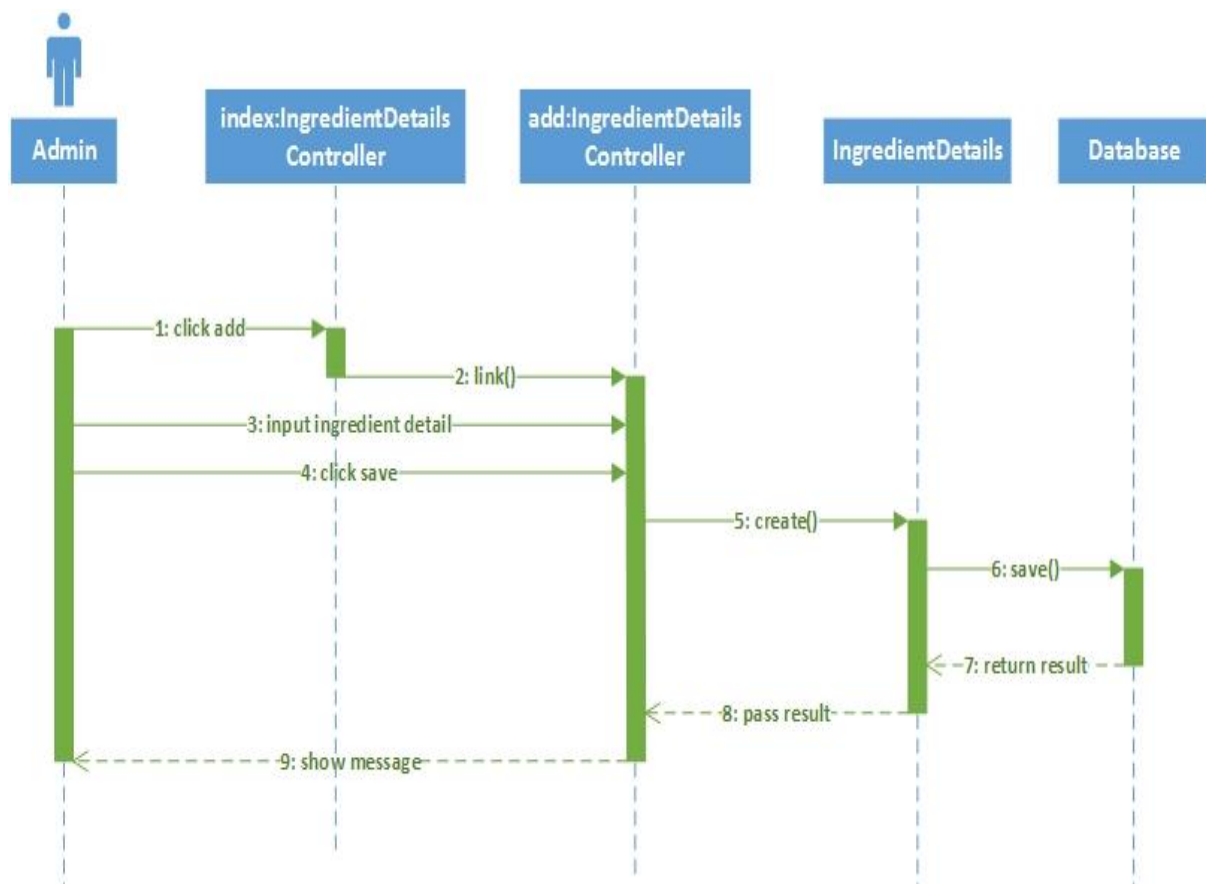


Figure 27 SQ24: Admin adds ingredient detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	75 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ25: Admin edits ingredient detail

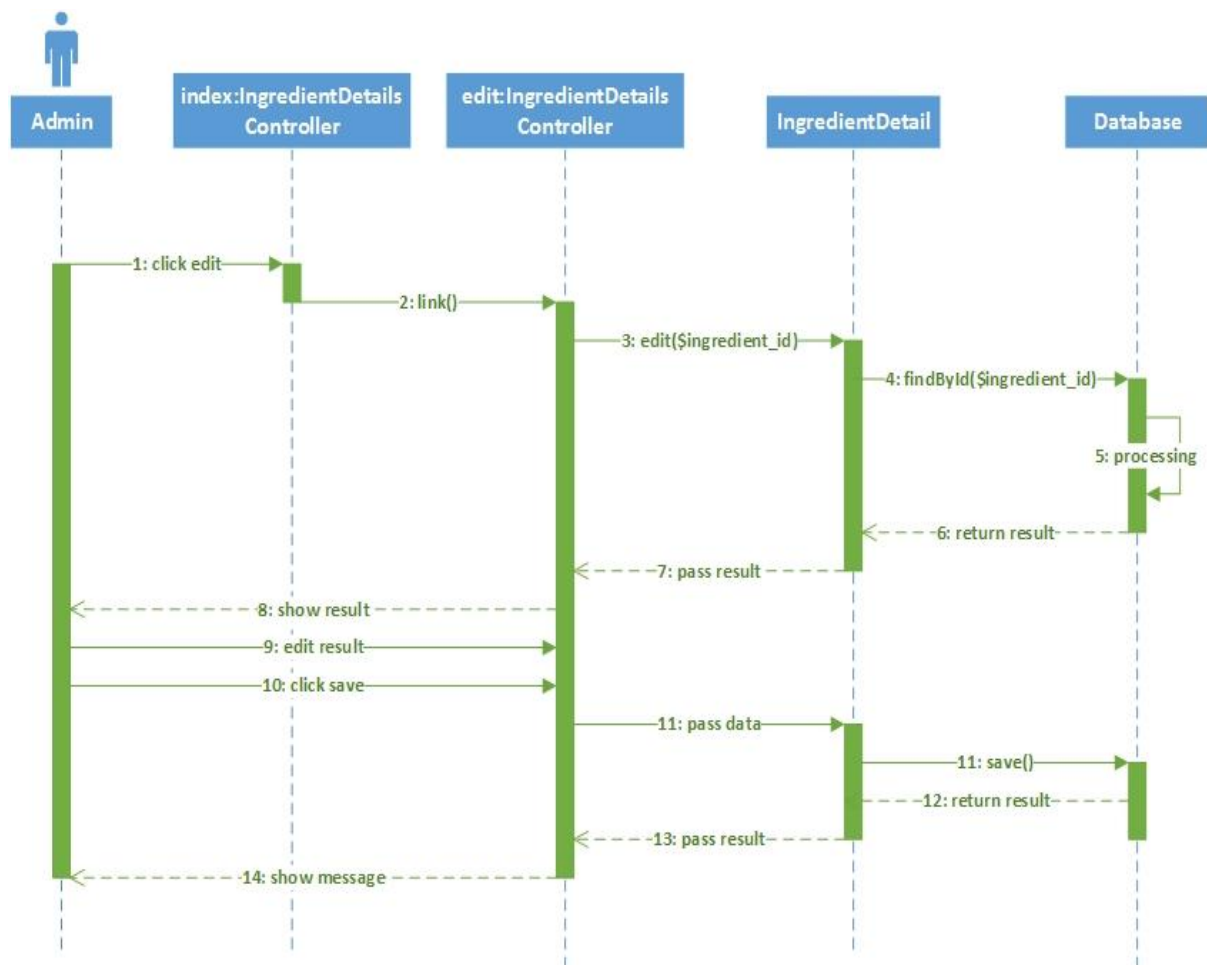


Figure 28 SQ25: Admin edits ingredient detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	76 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ26: Admin deletes ingredient detail

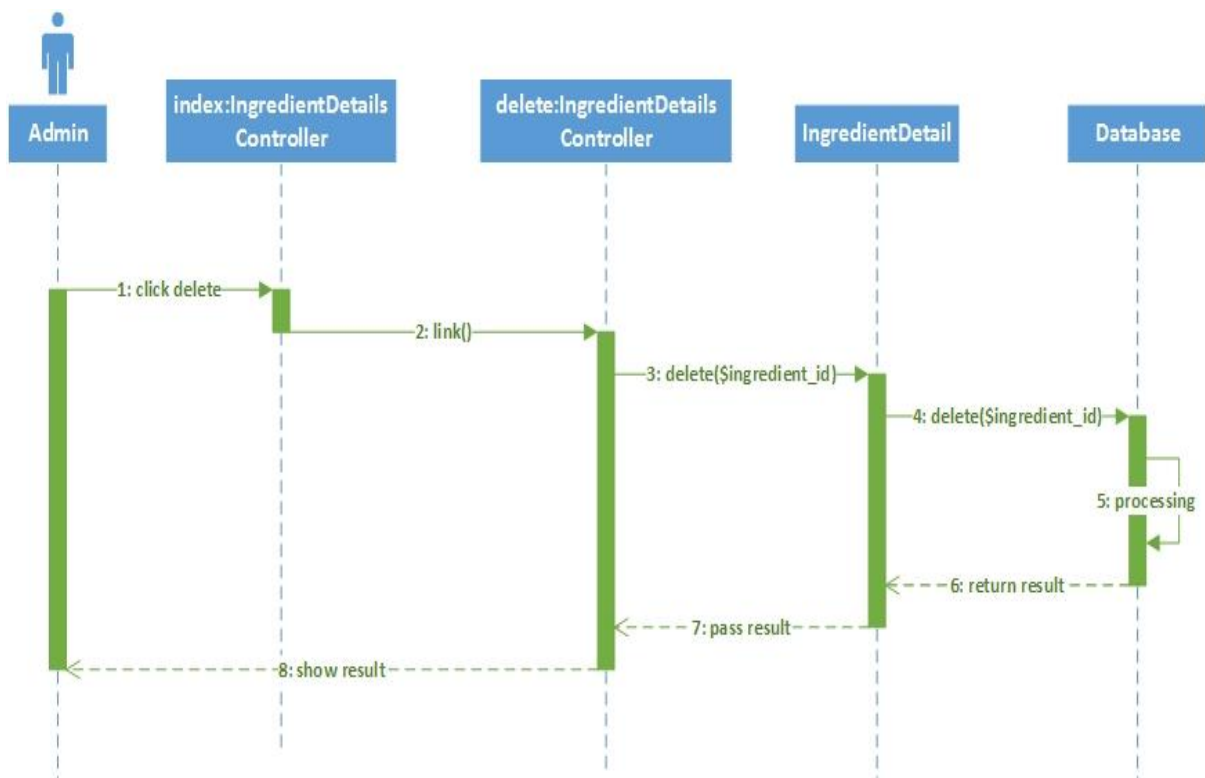


Figure 29 SQ26: Admin deletes ingredient detail

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	77 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ27: Admin adds ingredient items

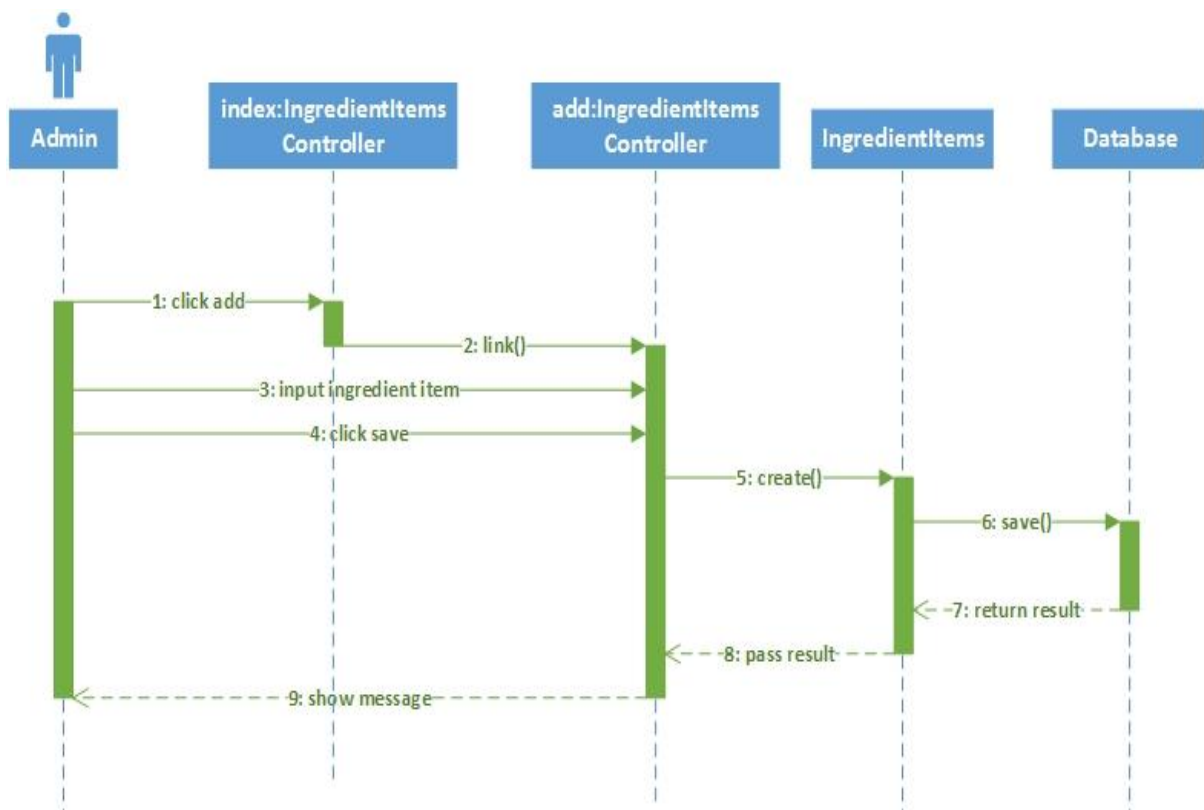


Figure 30 SQ27: Admin adds ingredient items.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	78 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ28: Admin edits ingredient items

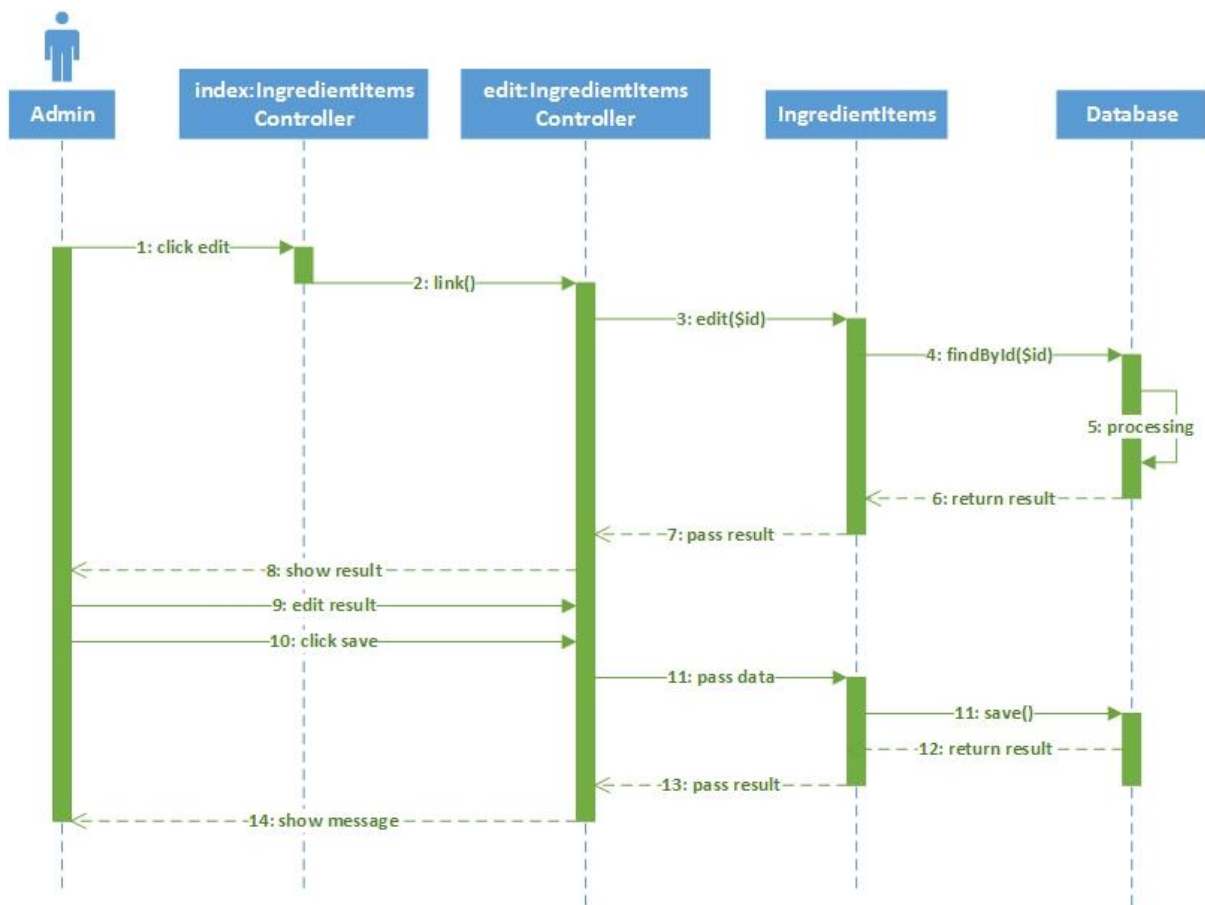


Figure 31 SQ28: Admin edits ingredient items.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	79 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ29: Admin deletes ingredient items

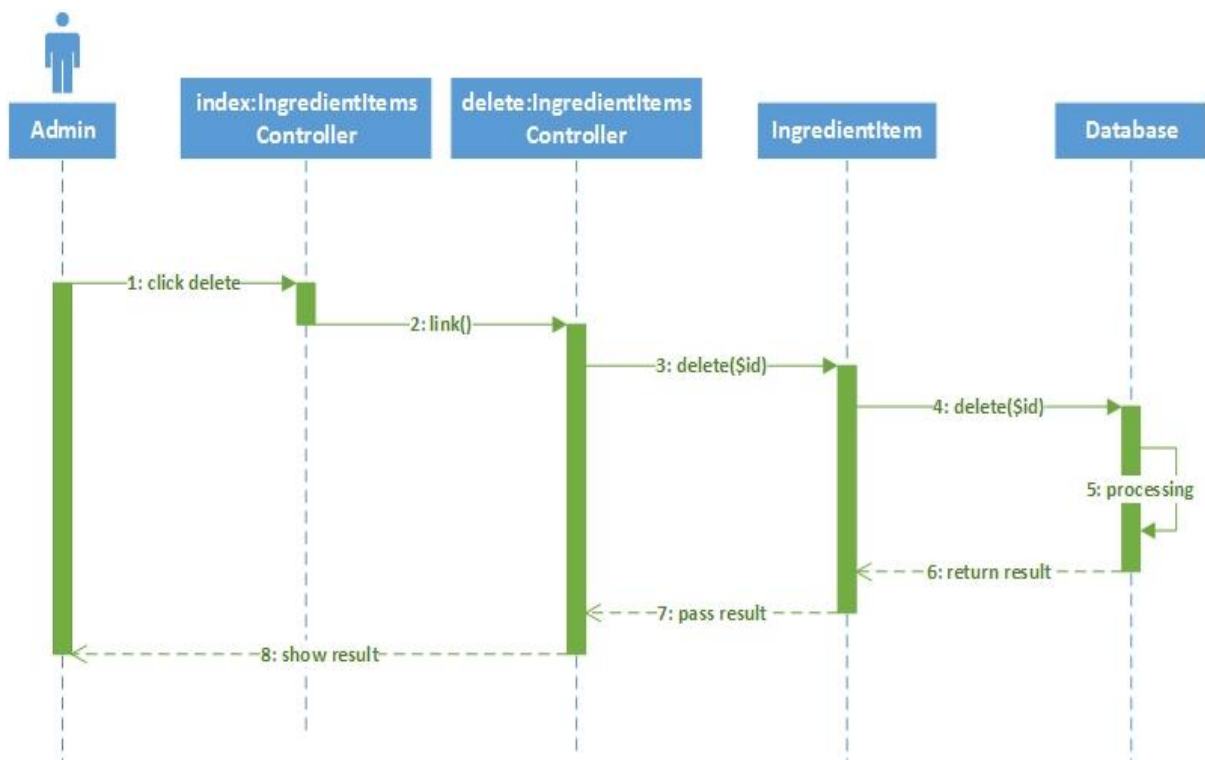


Figure 32 SQ29: Admin deletes ingredient items.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	80 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ30: Admin views cooking method

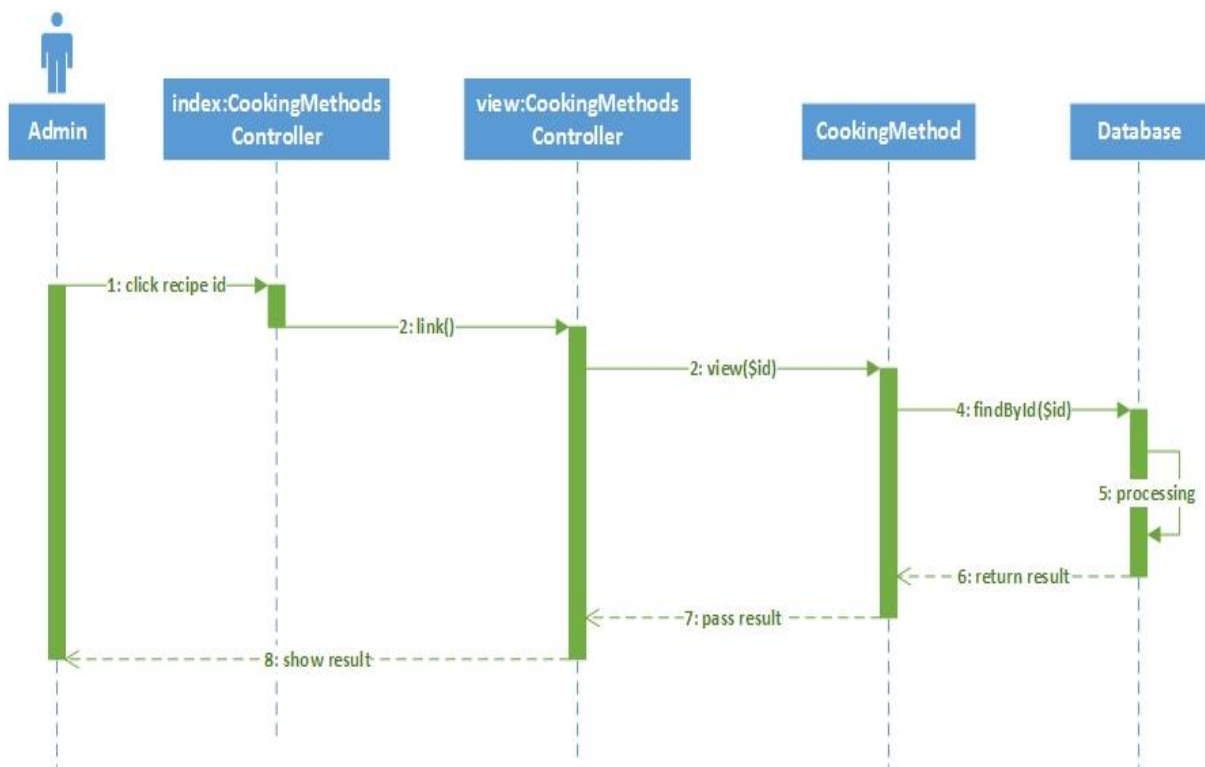


Figure 33 SQ30: Admin views cooking method

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	81 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ31: Admin adds cooking method

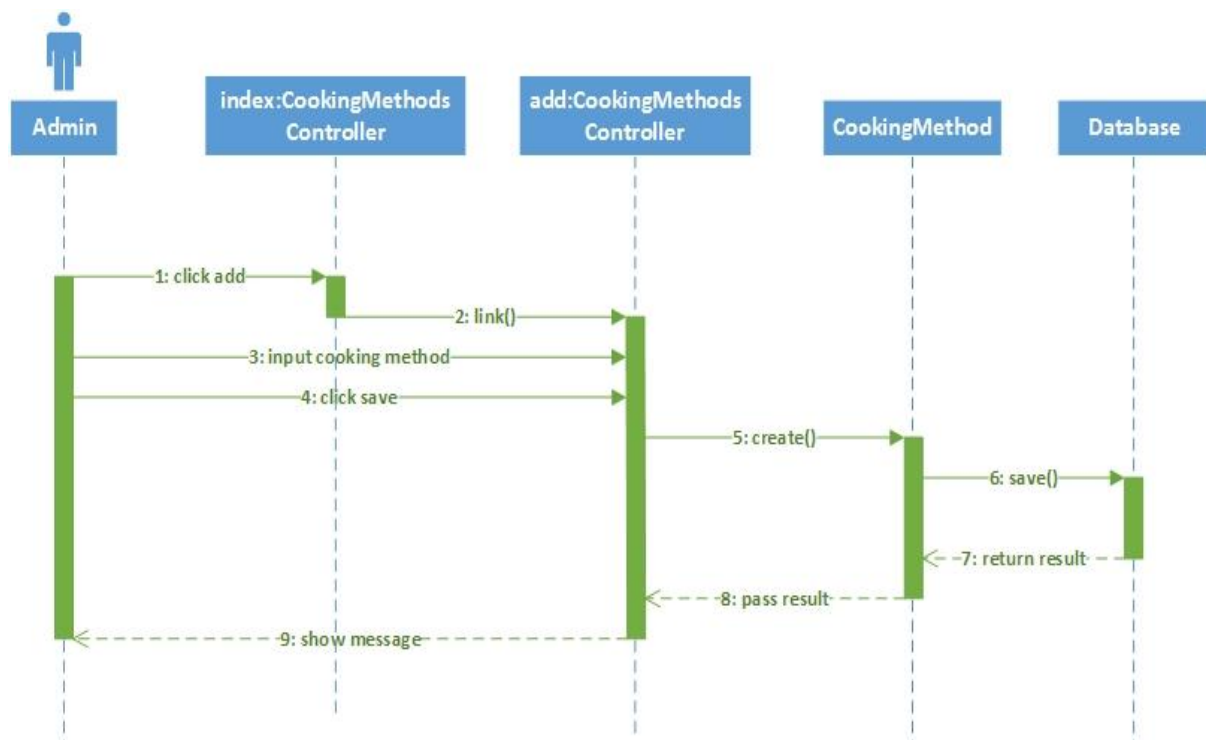


Figure 34 SQ31: Admin adds cooking method

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	82 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ32: Admin edits cooking method

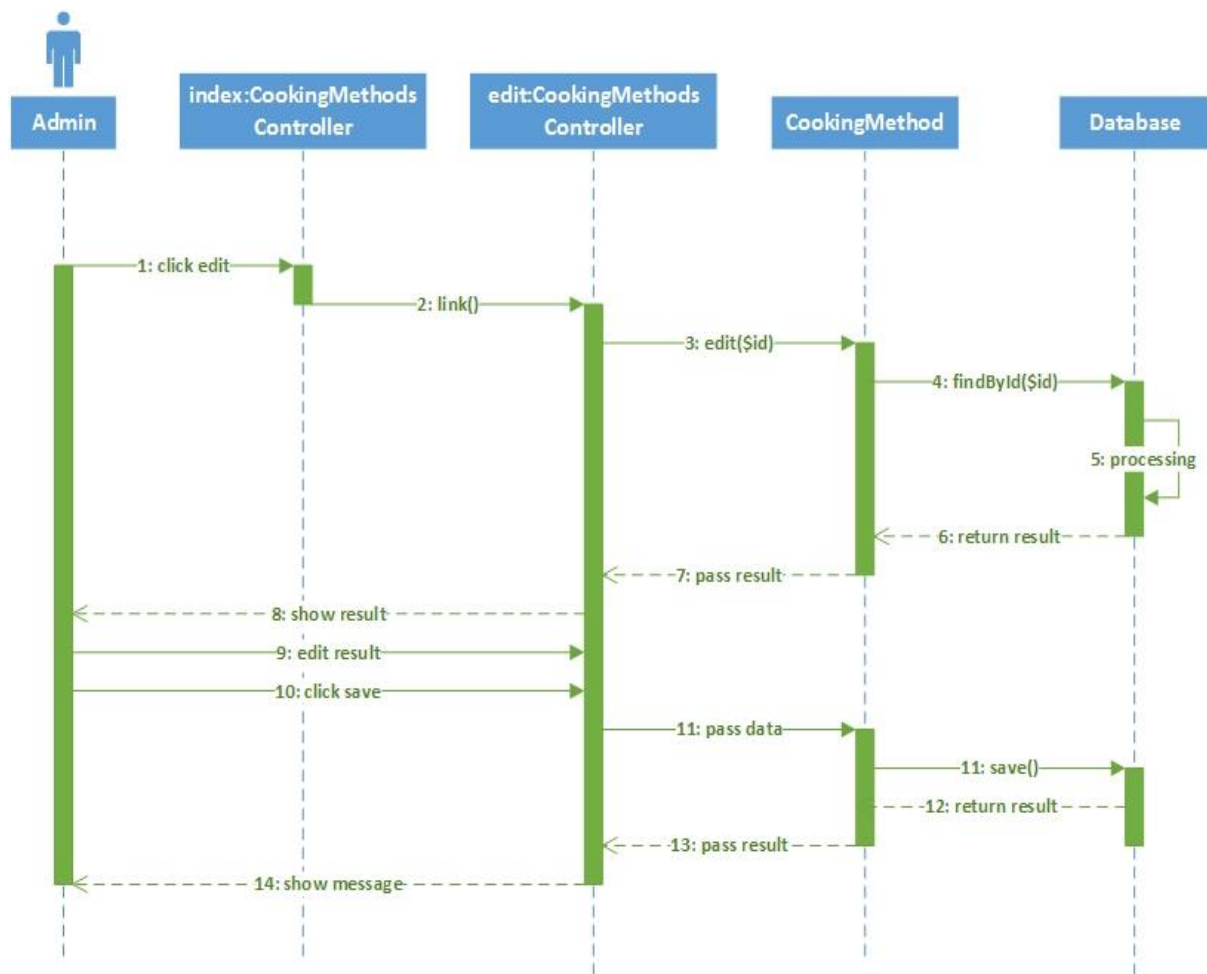


Figure 35 SQ32: Admin edits cooking method

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	83 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ33: Admin deletes cooking method

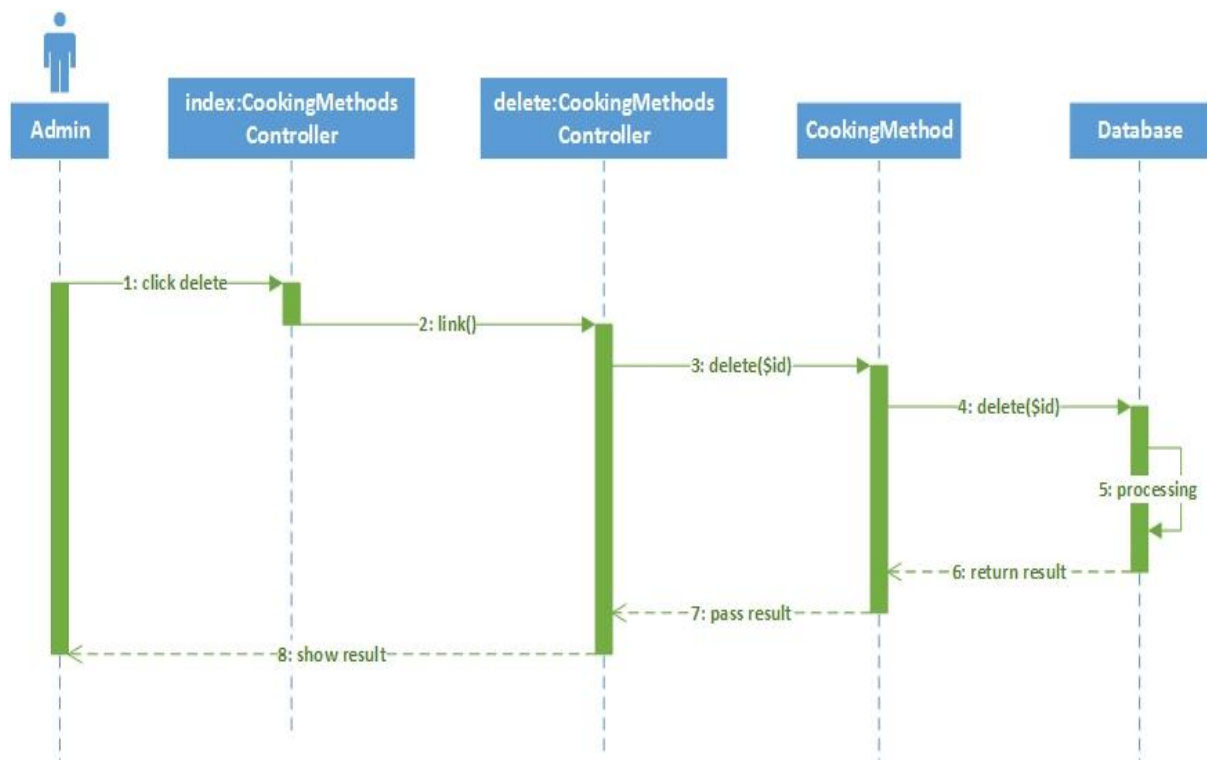


Figure 36 SQ33: Admin deletes cooking method

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	84 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ34: Admin views ingredient store location

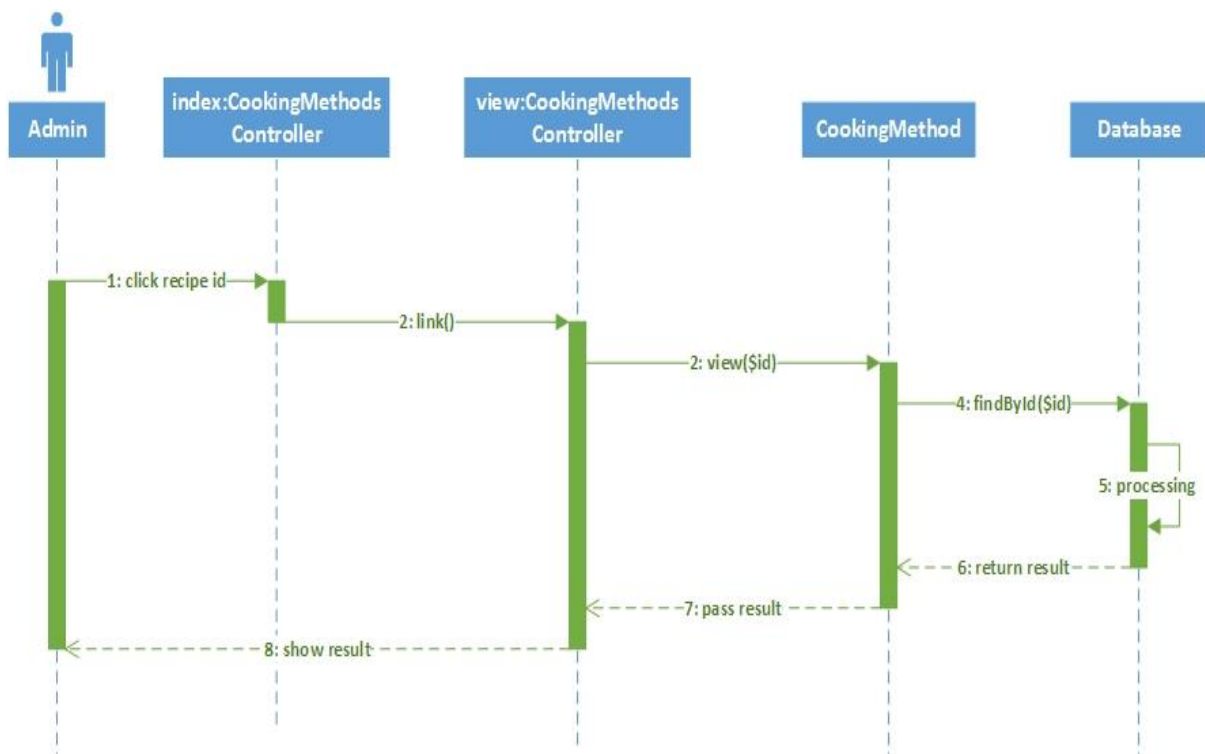


Figure 37 SQ34: Admin views ingredient store location

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	85 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ35: Admin adds ingredient store location

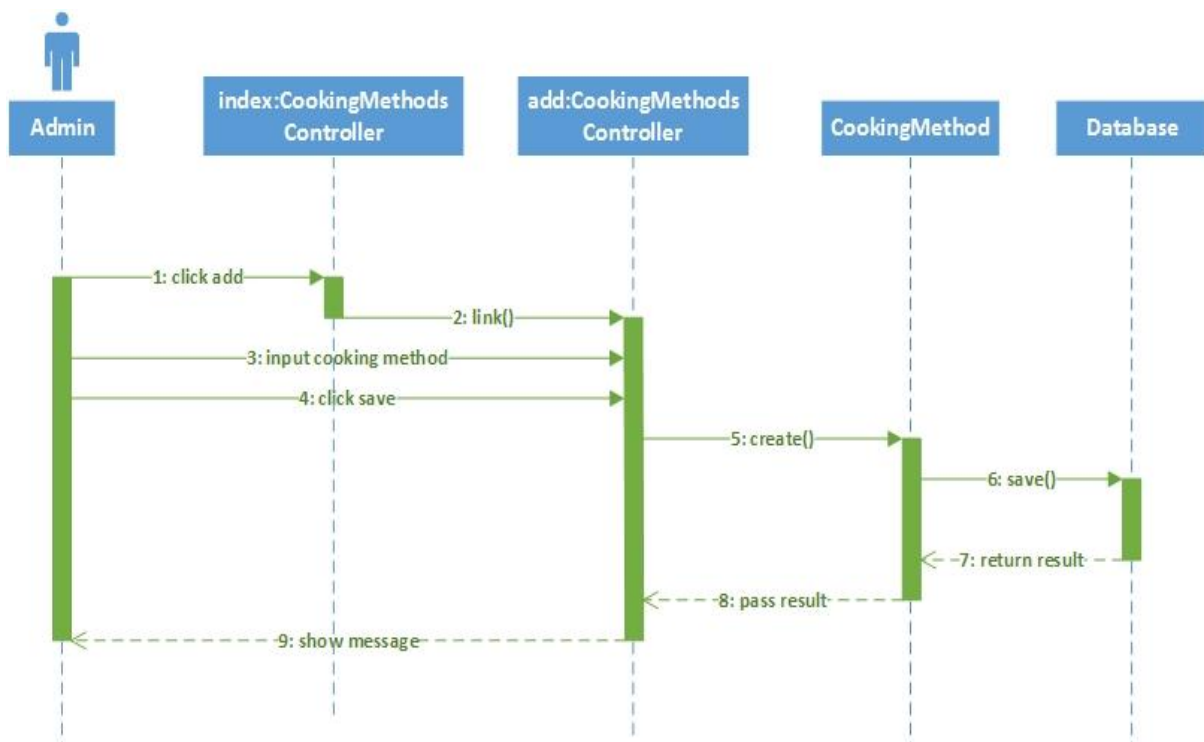


Figure 38 SQ35: Admin adds ingredient store location

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	86 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ36: Admin edits ingredient store location

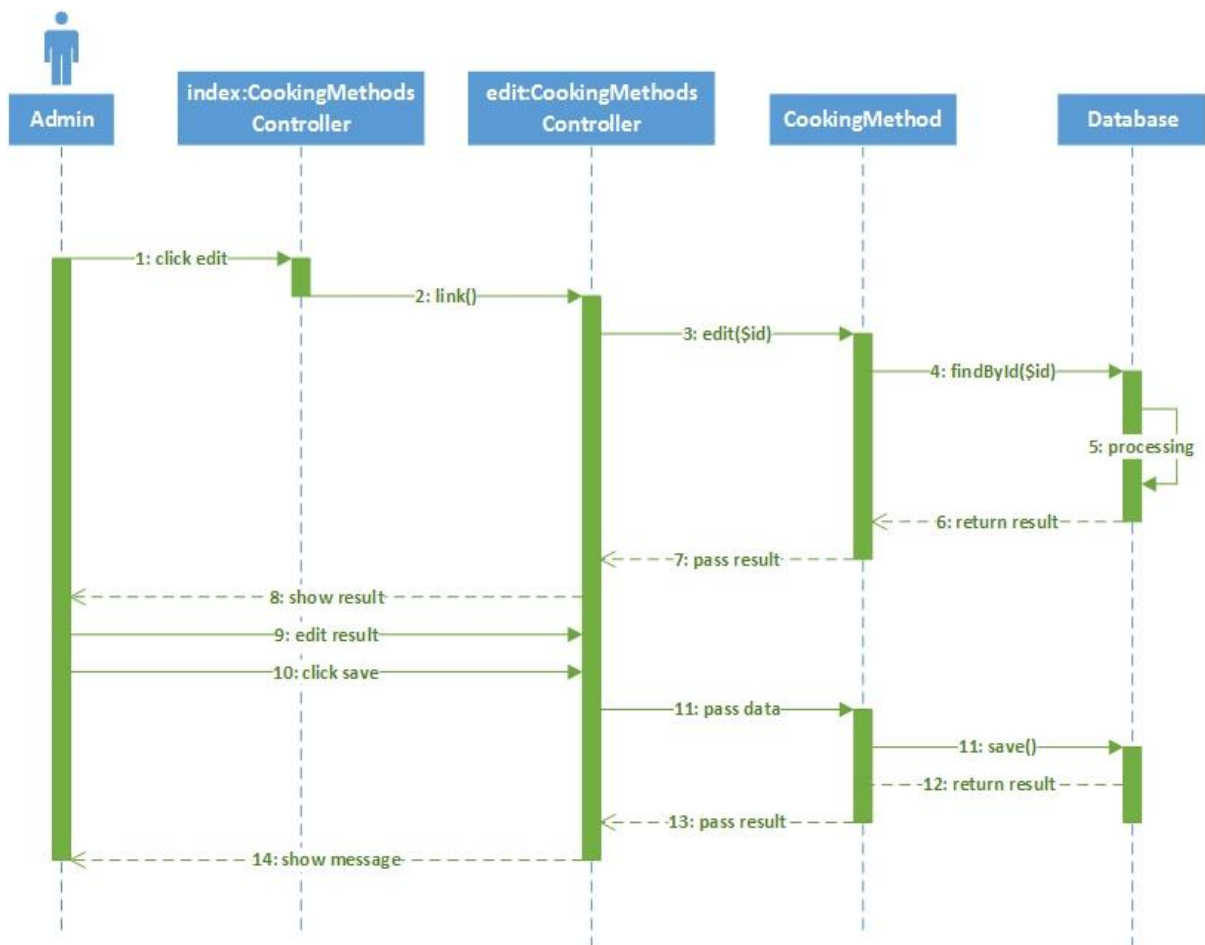


Figure 39 SQ36: Admin edits ingredient store location

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	87 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

SQ37: Admin deletes ingredient store location

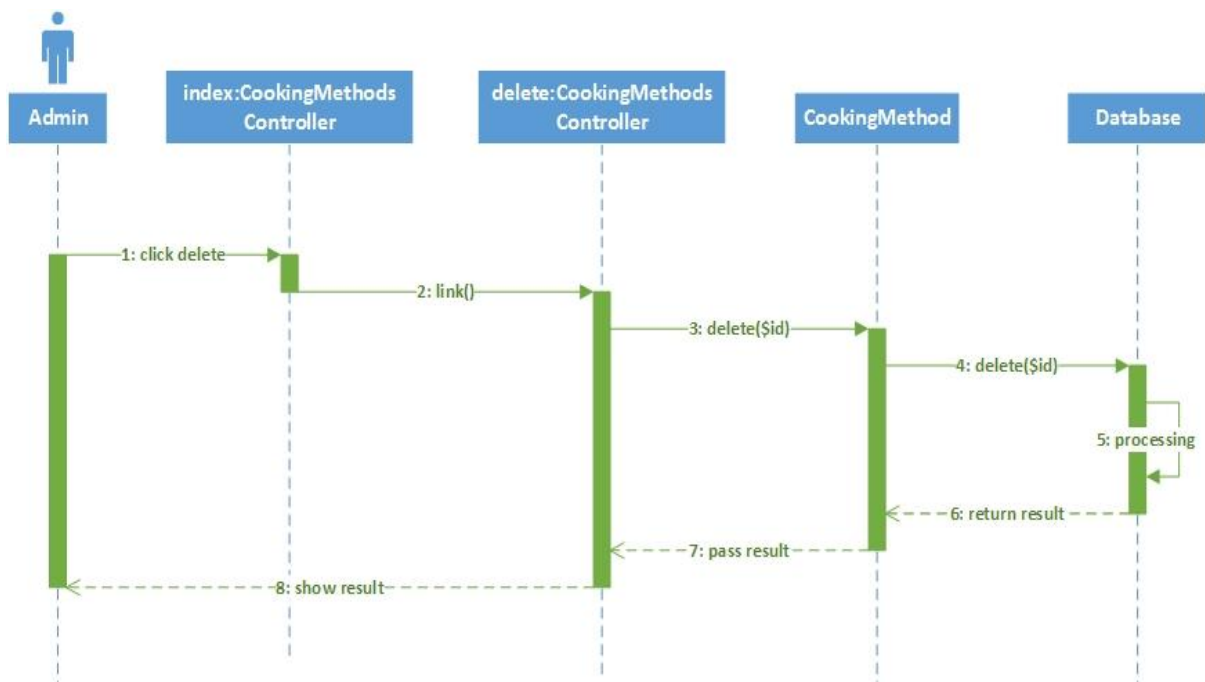


Figure 40 SQ37: Admin deletes ingredient store location

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	88 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

4. Data architecture

4.1 ER diagram

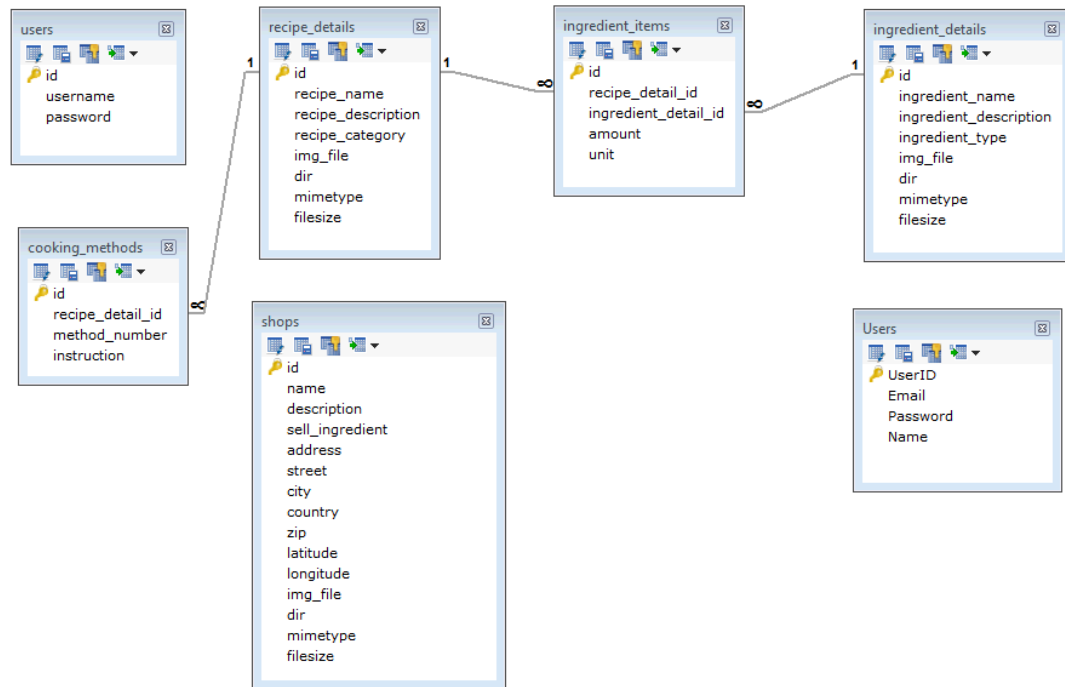


Figure 46 ER diagram

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	89 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

4.2 Database design

DB-01 users

Field	Type	Extra
id(PK)	int(10)	Auto increment
username	varchar(20)	
password	varchar(20)	

DB-02 recipe_details

Field	Type	Extra
id(PK)	int(10)	Auto increment
recipe_name	varchar(20)	
recipe_description	text	
recipe_category	varchar(20)	
img_file	varchar(255)	
dir	varchar(255)	
mimetype	varchar(255)	
filesize	int(11)	

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	90 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

DB-03 ingredient_details

Field	Type	Extra
id(PK)	int(10)	Auto increment
ingredient_name	varchar(50)	
ingredient_description	text	
ingredient_type	varchar(20)	
img_file	varchar(255)	
dir	varchar(255)	
mimetype	varchar(255)	
filesize	int(11)	

DB-04 ingredient_items

Field	Type	Extra
id(PK)	int(11)	Auto increment
recipe_detail_id(FK)	int(11)	
ingredient_detail_id(FK)	int (11)	
amount	varchar(20)	
unit	varchar(10)	

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	91 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

DB-05 cooking_methods

Field	Type	Extra
id(PK)	int(11)	Auto increment
recipe_detail_id(FK)	Int(10)	
method_number	int(11)	
instruction	text	

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	92 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

DB-06 shops

Field	Type	Extra
id(PK)	int(5)	Auto increment
name	varchar(5)	
description	text	
sell_ingredient	text	
address	text	
street	varchar(50)	
city	varchar(50)	
state	varchar(50)	
zip	varchar(10)	
latitude	float	(10,6)
longitude	float	(10,6)
img_file	varchar(255)	
dir	varchar(255)	
mimetype	varchar(255)	
filesize	int(11)	

DB-07 Users

Field	Type	Extra
UserID(PK)	int(5)	Auto increment
Email	varchar(50)	
Password	varchar(20)	
Name	varchar(10)	

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	93 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

5. User interface design

5.1 Web Service

UI-01 login.ctp

The diagram illustrates a login page layout. It features a rectangular frame divided into three horizontal sections. The top section is labeled 'header'. The bottom section is labeled 'footer'. The middle section contains the login form. In the top right corner of the middle section, the word 'Login' is displayed. Centered in the middle section are the labels 'Username' and 'Password', each followed by a text input field. Below the 'Password' field is a button labeled 'Login'.

Figure 47 UI-01 login.ctp

This is a first page when admin open a web application. It will login form.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	94 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-02 index.php

header

Menu

Recipe Detail

Ingredient Detail

Ingredient Item

Cooking Method

Shop

show menu name

Add

show table from database			Actions
			Edit Delete

show username [logout](#)

footer

Figure 48 UI-02 index.ctp

This is a second page after the admin logging into a web application. It will display index.ctp and shows list of recipe name from database. This page will shows a list of menu buttons, menu name, username, logout button, table from database and provides the links for add, edit, delete functions. When click on menu button the structure of this page will same, but difference on data that used from database. (e.g. click on "Ingredient Detail" button, it will show table data from ingredient detail table.)

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	95 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-03 view.ctp

header

show field name from database

show details of the field name that clicked.

show username [logout](#)

footer

Figure 49 UI-03 view.ctp

This page will show the details of data when admin click on the link in a table. (e.g. click on recipe name, It will show all of details from database.)

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	96 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-04 add.ctp

header

show username [logout](#)

Add "menu name"

Field name from database

Field name from database

Field name from database

-
-
-

footer

Figure 50 UI-04 add.ctp

This is a add detail page. It will display when admin click on link "Add" as any index page. It will show add detail form that show follow by field name in database.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	97 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-05 edit.ctp

header

show username [logout](#)

Edit "menu name"

Field name form database

get data from database

Field name form database

get data from database

Field name form database

get data from database

▪

▪

▪

Save

footer

Figure 51 UI-05 edit.ctp

When admin click edit icon on action column as any table. This UI will display. It will show detail from database that clicked.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	98 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-06 shops/index.ctp

header

Menu

Recipe Detail

Ingredient Detail

Ingredient Item

Cooking Method

Shop

show menu name

Add

show Google Map

show table from database			Actions	
			Edit	Delete

show username [logout](#)

footer

Figure 52 UI-06 shops/index.ctp

This page is difference from other index page as it will show Google Map, without Google Map it show the same thing with any index page.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	99 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

5.2 Mobile Application

UI-07 Login

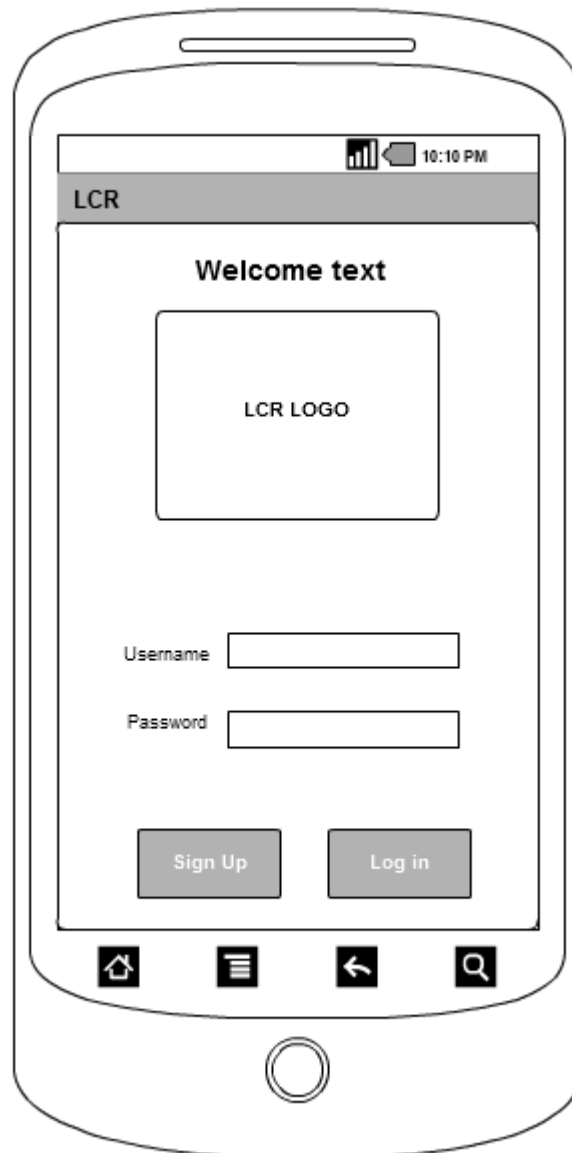


Figure 53 UI-07 Login

This UI is a UI that the customer can login before use our application. It will show a textbox that customer input E-mail and Password.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	100 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-08 Register

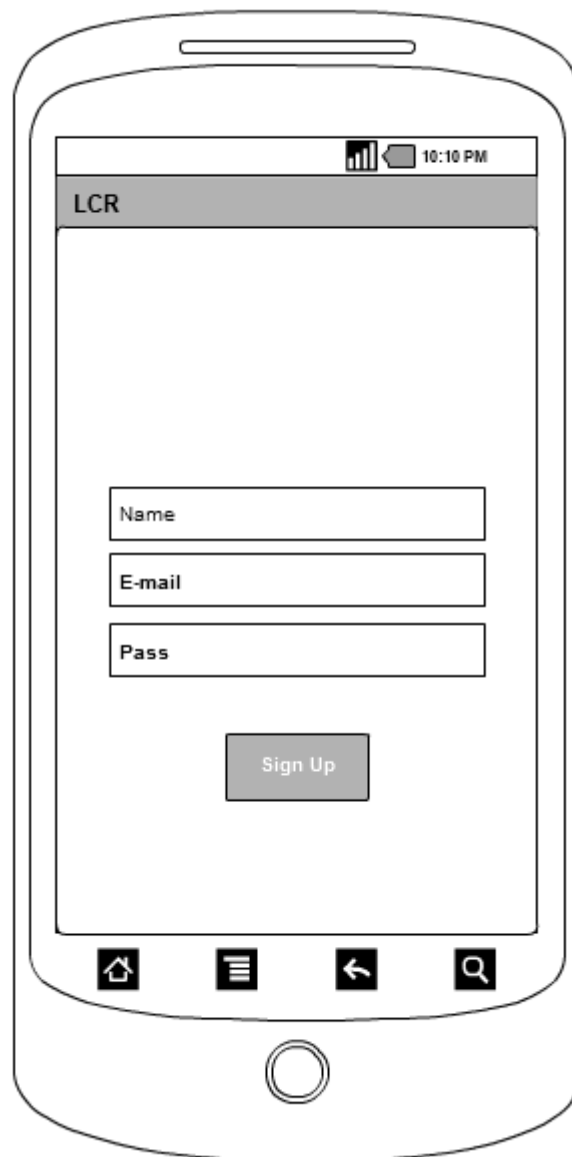


Figure 54 UI-08 Register

This UI is a UI that the customer can register for using our application. It will show information that used.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	101 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-09 Home

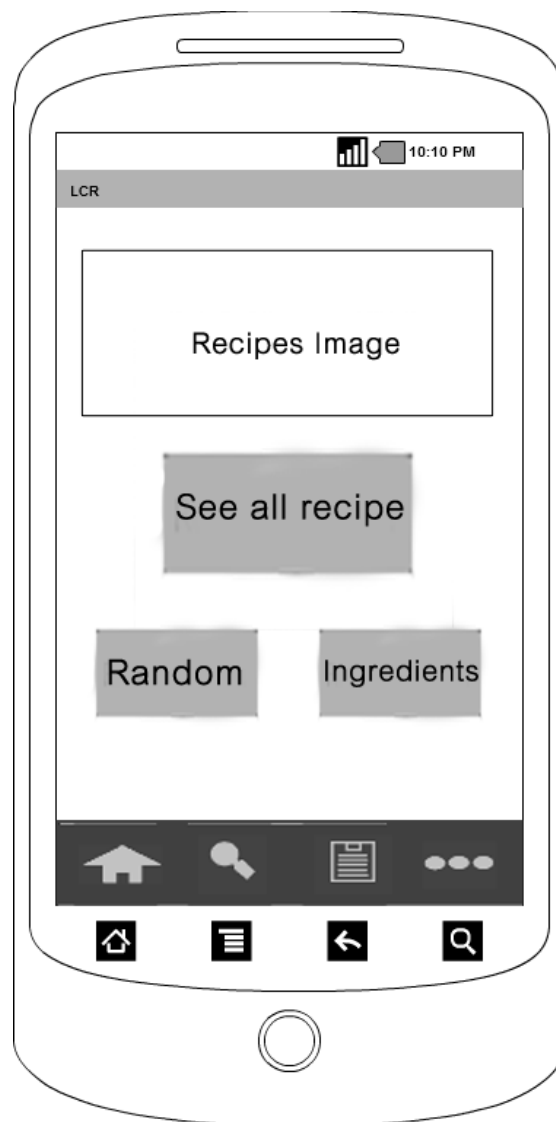


Figure 55 UI-09 Home

This UI will show after the customer access to our application. It will show Recommended Menu, Category, Random function and See all button. See all button is a button that show all list of our recipe. all of page has a menu bar. In menu bar have Home, Search, shopping List, and More button.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	102 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-10 Recipe List

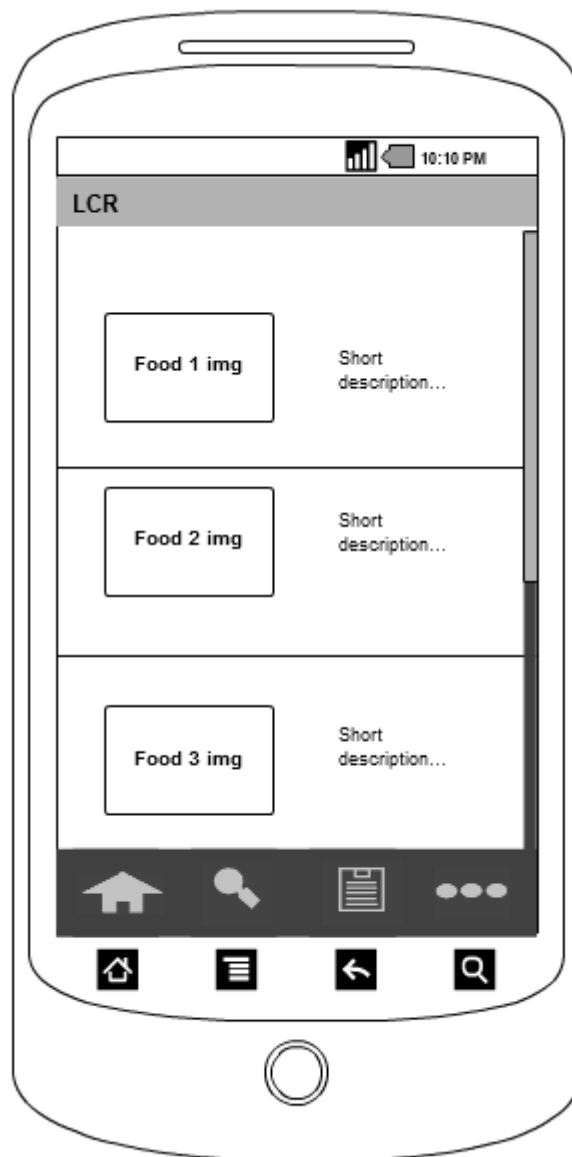


Figure 56 UI-10 Recipe List

This UI will show list of recipe that we have. It will show after the customer select See all button. The customer can see all recipe each of category.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	103 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-11 Recipe Detail

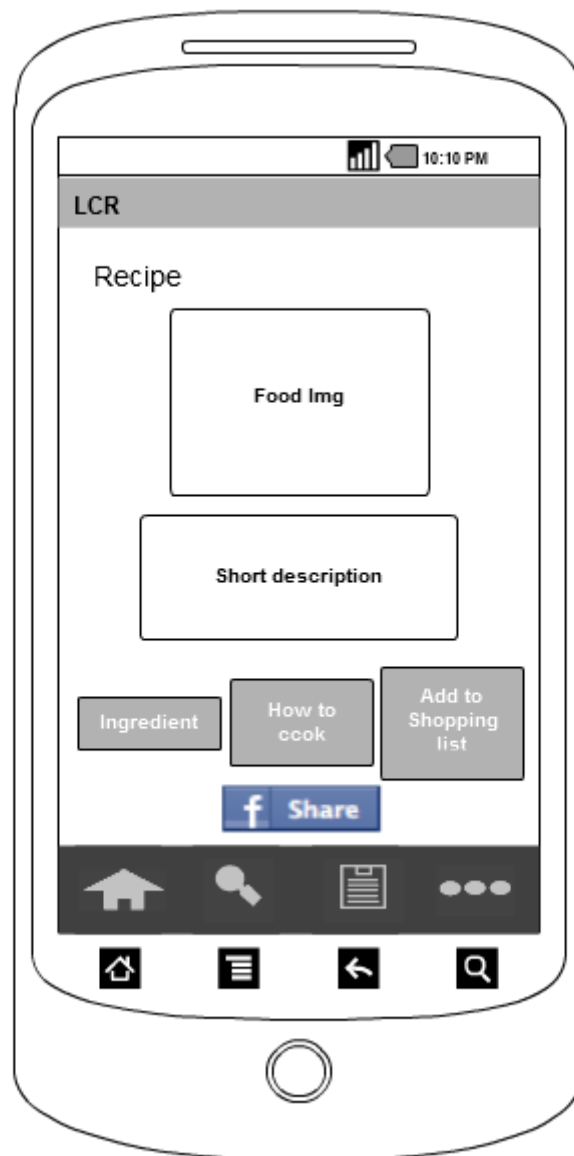


Figure 57 UI-11 Recipe Detail

This UI will show after the customer select some recipe. It will show food name, ingredient, how to cook, food image, and food description. This page will provide customer to add food to shopping list by select Add to Shopping List button and share this food by select Share button.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	104 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-12 How to cook

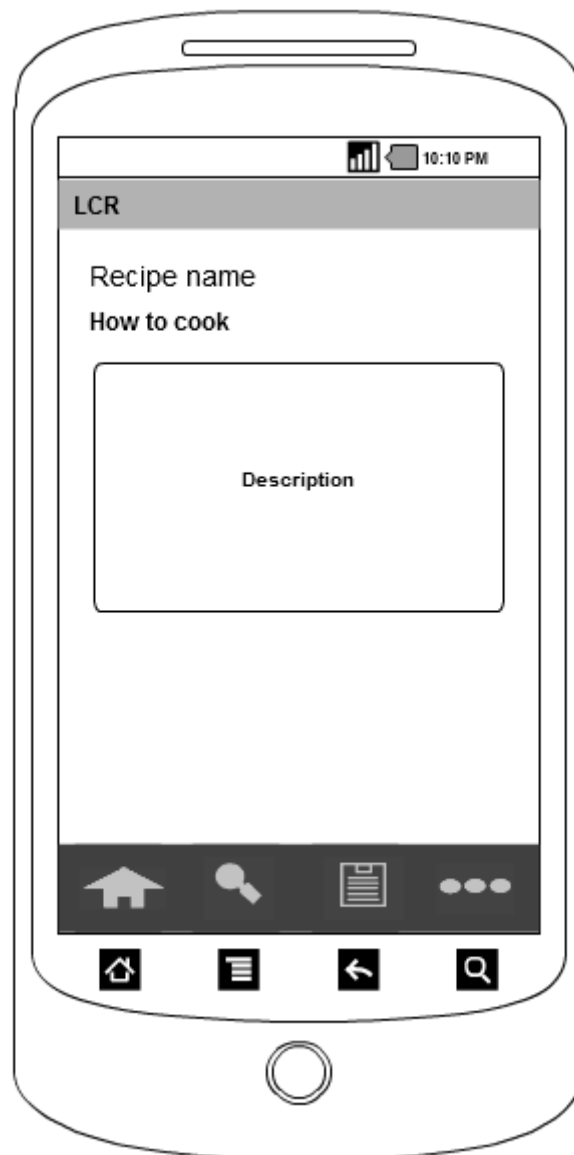


Figure 58 UI-12 How to cook

This UI will show after the customer select How to cook button from recipe detail page. It will show how to cook description.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	105 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-13 Ingredient List View

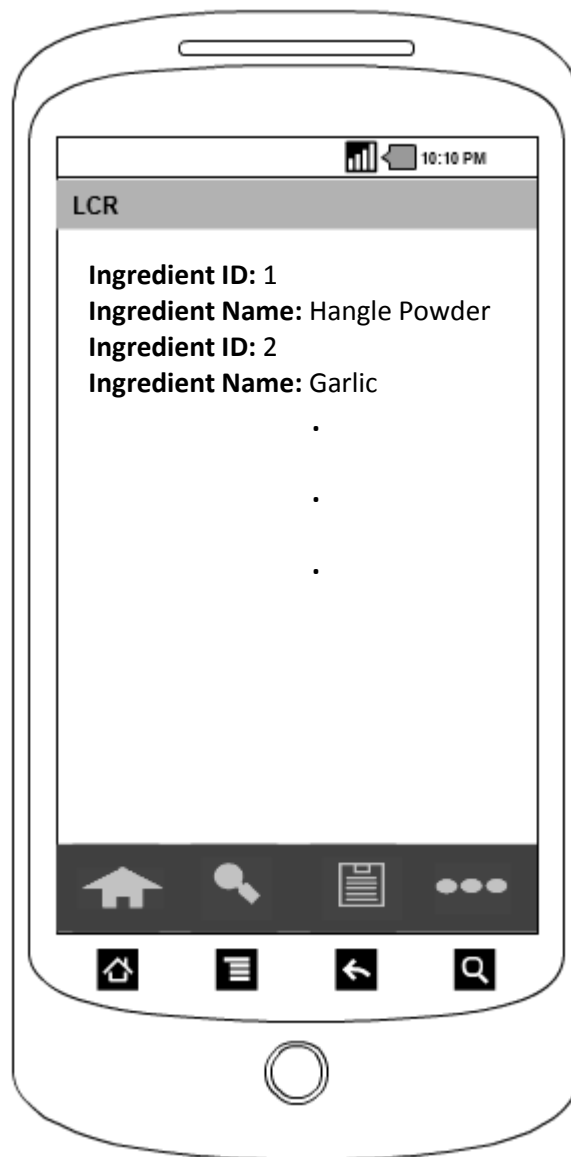


Figure 59 UI-13 Ingredient List View

This UI will show after the customer select Ingredient button from home page. It will show list of ingredient in database. It will show ingredient id and name.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	106 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-14 Menu Ingredient List

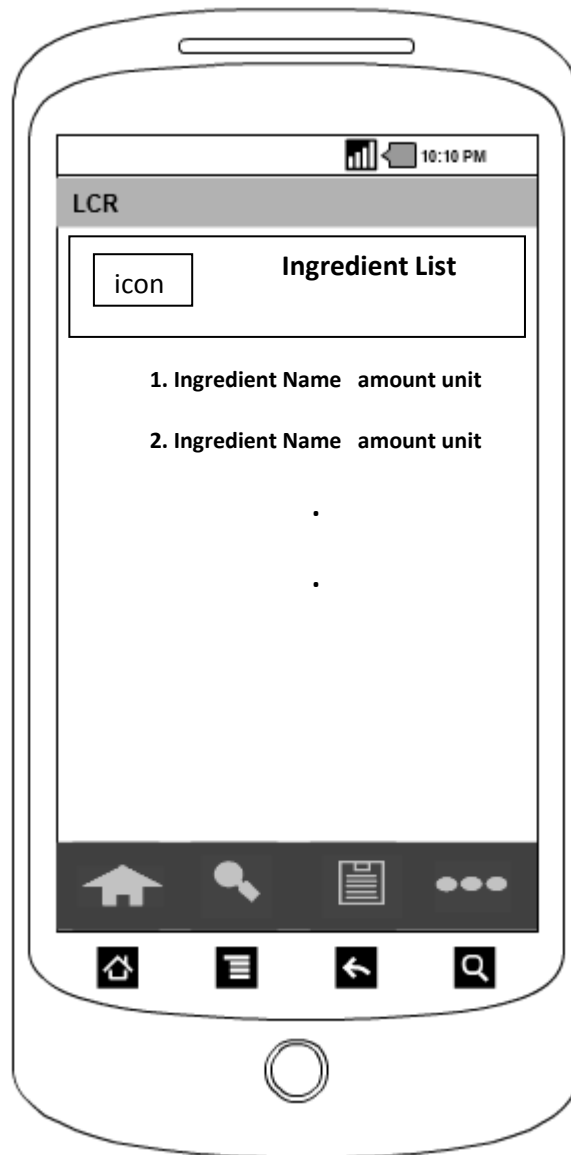


Figure 60 UI-14 Menu Ingredient List

This UI will show after the customer select Ingredient button from recipe detail page. It will show list of needed ingredient.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	107 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-15 Ingredient Detail

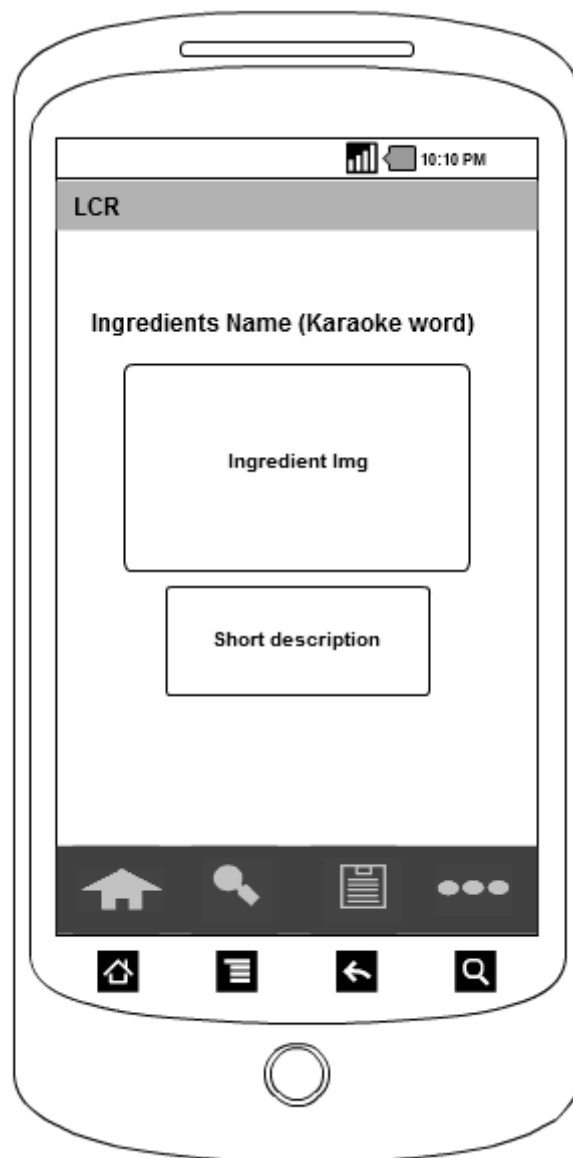


Figure 61 UI-15 Ingredient Detail

This UI will show after the customer select some ingredient from ingredient list in Ingredient list page. It will show name of ingredient, ingredient image and short description.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	108 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-16 Finds Ingredient Google Map

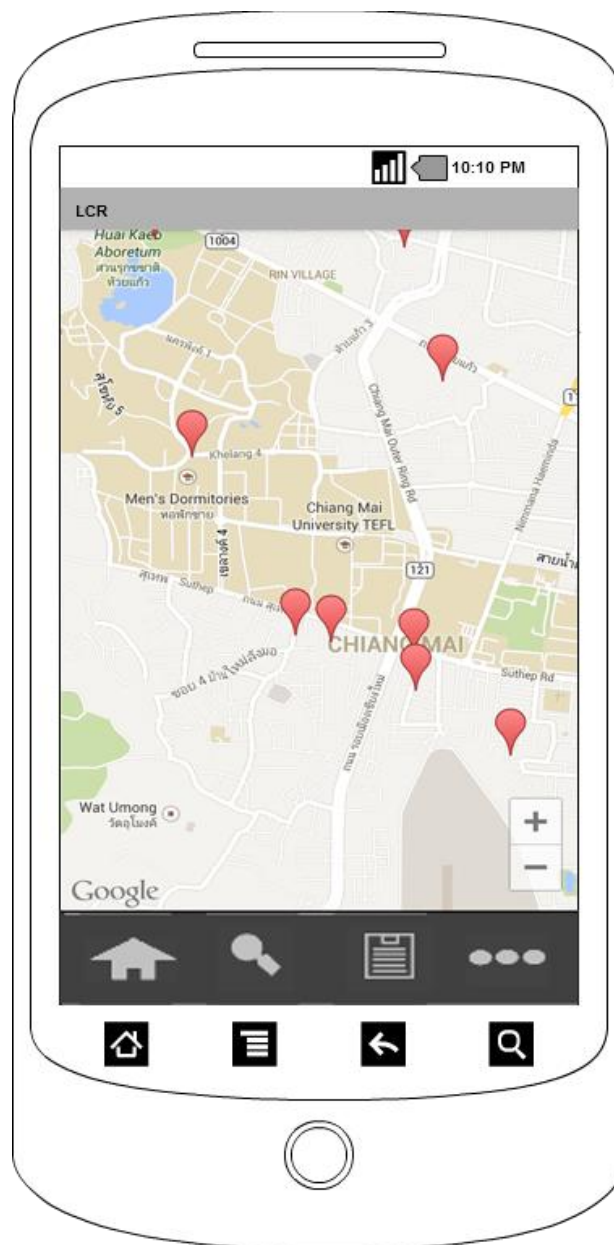


Figure 62 UI-16 Find Ingredient Google Map

This UI will show after the customer select Searching Location button. It will show interface of Google Map. The customer can search ingredient store location. create their own store location via this page.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	109 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-17 Ingredient Shop Description

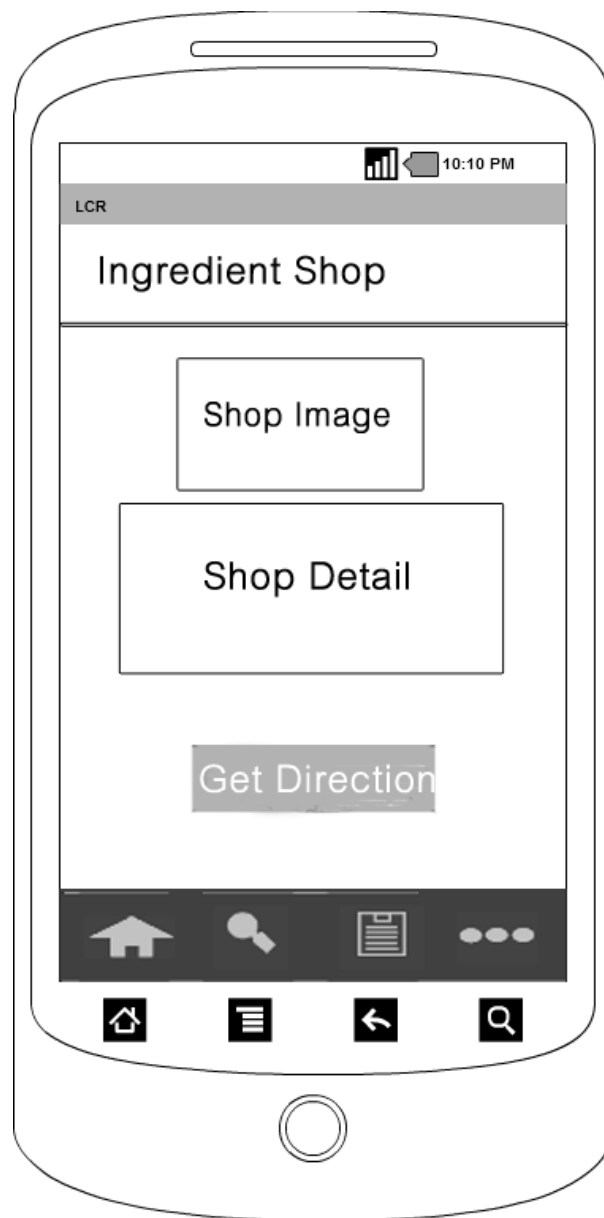


Figure 63 UI-17 Ingredient Shop Description

This UI will show after the customer select any shop marker in google map. It will show the shop name, image, short description, and the customer can get direction to the shop by select get direction button.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	110 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-18 Shop path

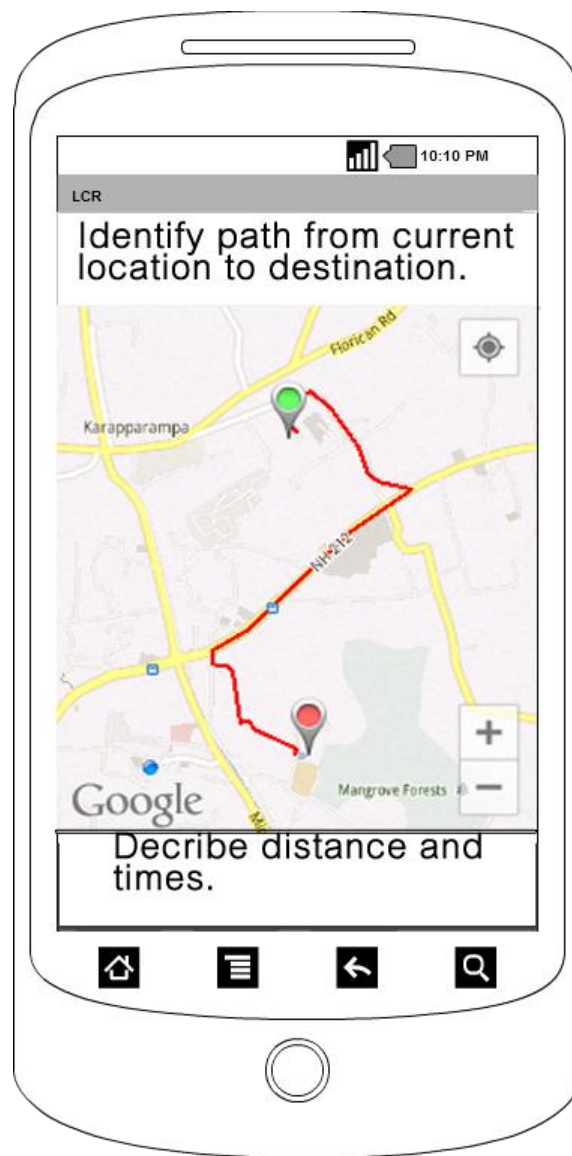


Figure 64 UI-18 Shop Path

This UI will show after the customer selects get direction button. It will show interface of Google Map that show the path between shop and current location of customer, and it can describe the times and distance of the shop destination.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	111 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-19 Random Food Function



Figure 65 UI-19 Random Food Function

This UI will show after the customer select random function. The customer can select random button for random menu.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	112 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-20 Random Food Shaking

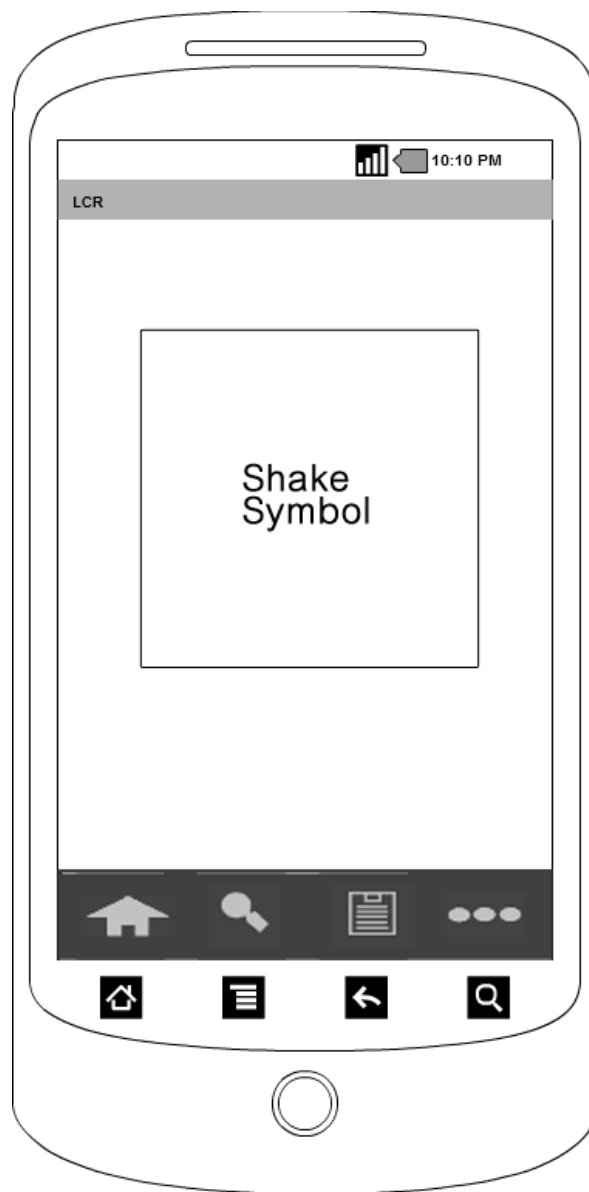


Figure 66 UI-20 Random Food Shaking

This UI will show after the customer selects random button. It will show the symbol for provides customer can shakes their phone for receive a random menu.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	113 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-21 Random Food Result

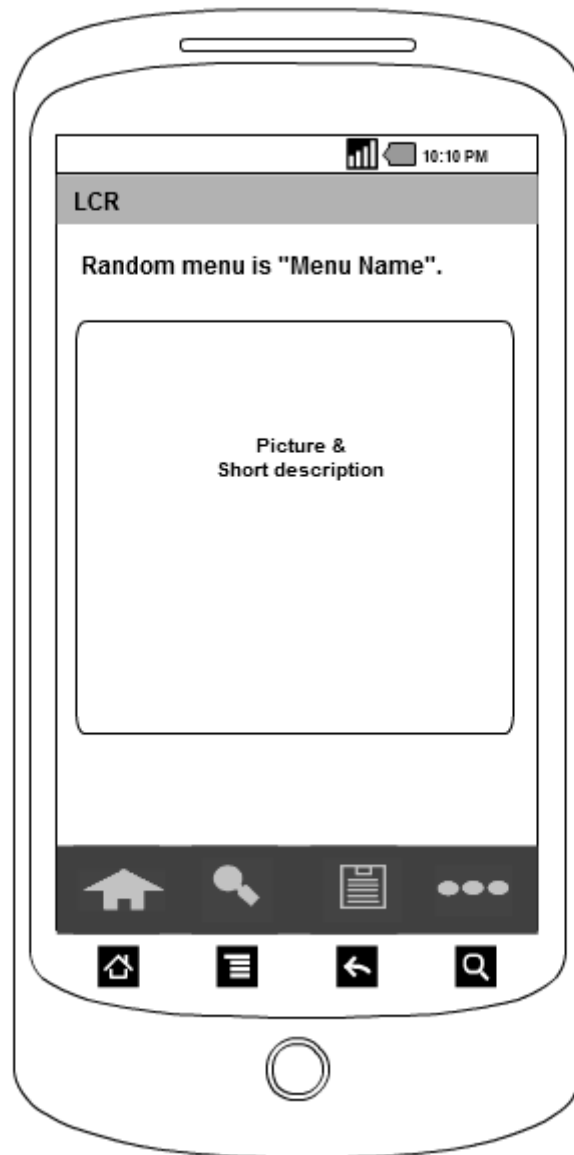


Figure 67 UI-21 Random Food Result

This UI will show after the customer shake their phone. It will show the food menu that the customer received.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	114 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-22 Shopping List



Figure 68 UI-22 Shopping List

This UI will show after the customer open Shopping List menu from menu bar. It will show list of menu that customer added via recipe detail page.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	115 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-23 Shopping List detail

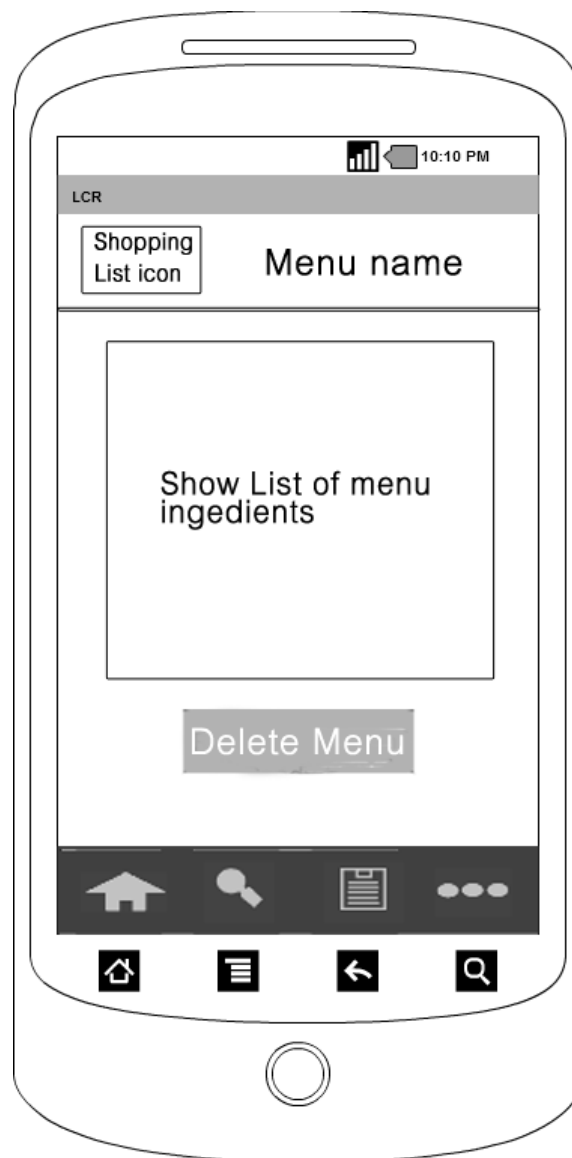


Figure 69 UI-23 Shopping List Summary

This UI will show after the customer select any menu from shopping list page. It will show all of ingredients that have in selected menu and the customer can delete their menu by selects delete menu button.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	116 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013

UI-24 Setting function

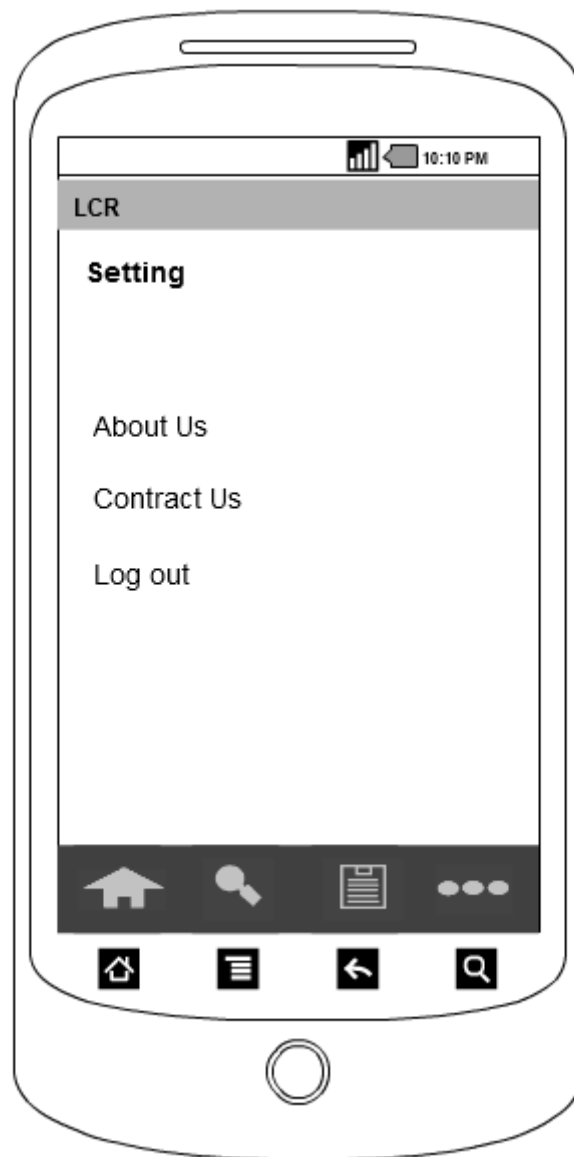


Figure 70 UI-24 Setting Function

This UI will show after the customer select setting function from menu bar. It will show a list of links are About Us, Contract US, and Log out.

Document Name	LCR -SDD-V.3.0-docx	Owner	KS	Page	117 / 117
Document Type	Software Design Document	Release Date	3 October 2013	Print Date	3 October 2013