**Web-based Ordering & Ingredient Estimating for Bakery Manufacturer**

Traceability Record

By

**Miss. Nontra Mahachanont 542115026**

**Mr. Parinya Panyanak 542115034**

Department of Software Engineering

College of Arts, Media and Technology

Chiang Mai University

Project Advisor

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**Mr.Phudinan Singkhamfu**

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**\*NM = Nontra Mahachanont**

**\*PP = Parinya Panyanak**

**\*PS = Phudinan Singkhamfu**

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# **Chapter One | Introduction**

## 1.1 Purpose

The purpose of traceability record document is to show the relation of the project. The traceability linked between user requirements to system requirement specification, use case, activity diagram, sequence diagram and test case.

## 1.2 Scope

Web-based Ordering & Ingredient Estimating for Bakery Manufacturer is a management system that helps the admin to manage ordering information and estimate ingredient usage. Then the system also helps the wholesaler to manage order and record ordered history. The project focuses on implementation of general order management system. The objective of this project is to develop management system that used with bakery manufacturer. Another objective is to develop a system that support web-based ordering for wholesaler.

## 1.3 Dependency

This traceability record is depended on the following documents:

- Software Project Management Plan

- Software Requirement Specification

- Software Design Document

# **Chapter Two | Traceability Record Table**

## SRS and URS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| URS  SRS | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| URS  SRS | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |
| SRS - 01 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| SRS - 02 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| SRS - 03 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| SRS - 04 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| SRS - 05 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| SRS - 06 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 07 | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| SRS - 08 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 09 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 10 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 11 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 12 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 13 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SRS - 14 |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 15 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SRS - 16 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SRS - 17 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| SRS - 18 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| SRS - 19 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SRS - 20 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| SRS - 21 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| SRS - 22 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SRS - 23 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SRS - 24 |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SRS - 25 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 26 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 27 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 28 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| SRS - 29 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| SRS - 30 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| SRS – 31 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 32 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 33 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 34 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 35 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 36 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| SRS - 37 |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |

## 

## 2.2 Use Case and User Requirement Specification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Requirement Specification  Use Case | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |
| UC - 01: Registration member | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| UC - 02: Authentication |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| UC - 03: Manage all member information |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| UC - 04: Update own information |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| UC - 05: Manage bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| UC - 06: View bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |

## 

## 2.3 Activity Diagram and User Requirement Specification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Requirement Specification  Activity Diagram | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |
| AD - 01: Admin register to active member | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| AD - 02: Admin and Wholesaler login to the system |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| AD - 03: Admin and wholesaler logout from the system |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| AD - 04: Admin update member information |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| AD - 05: Admin delete member information |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| AD - 06: Wholesaler update own information |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| AD - 07: Admin view member information |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| AD - 08: Admin add bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| AD - 09: Admin update bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| AD - 10: Admin delete bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| AD - 11: Admin and Wholesaler view bakery product information |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |

## 2.4 User Interface and User Requirement Specification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Requirement Specification  User Interface | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |
| UI - 01: Home page |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| UI - 02: Admin main lay out | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| UI - 03: Wholesaler main lay out |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| UI - 04: Register member page | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| UI - 05: Register success page | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| UI - 06: Register fail page | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| UI - 07: Member information page |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| UI - 08: Admin view list of member |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| UI - 09: Admin update member information |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| UI - 10: Admin delete member |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| UI - 11: Wholesaler update own information |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |
| UI - 12: Admin create bakery product |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| UI - 13: Admin update bakery product |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| UI - 14: Admin delete bakery product |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| UI - 15: Admin view list of bakery product |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |
| UI - 16: Wholesaler view list of bakery product |  |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |
| UI - 17: Bakery product information page |  |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |

## 2.5 Sequence Diagram and User Requirement Specification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Requirement Specification  Sequence Diagram | URS - 01 | URS - 02 | URS - 03 | URS - 04 | URS - 05 | URS - 06 |
| SD - 01: Home page | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |  |
| SD - 02: Admin register member |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SD - 03: Register success page |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |  |
| SD - 04: Register fail page |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SD - 05: Member information page |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |  |
| SD - 06: Admin view list of member |  |  |  | http://www.decodeunicode.org/en/data/glyph/196x196/2714.gif |  |  |

**Chapter Three | Appendix**

## 3.1 User Requirement Specification

**URS-01:** Admin can register to activate member to access the application by

create new member information; username, password, first name, last name, phone number, address, user type and profile picture into database.

**URS-02:** Admin and wholesaler authenticate the web application account.

**URS-03:** Admin can manage all member information; username, password, first

name, last name, phone number, address, user type and profile picture in the database.

**URS-04:** Wholesaler can update own information; username, password, first

name, last name, phone number, address, user type and profile picture in the database.

**URS-05:** Admin can manage all bakery product information; bakery product ID,

bakery product name, description, price, category and product picture in the database.

**URS-06:** Wholesaler can view all bakery product information by search keyword

of bakery product ID, bakery product name, information, price, category and product picture in the database.

## 3.2 System Requirement Specification

**SRS-01:** The system can connect to the database**.**

**SRS-02:** The system shall provide a link for register new member information within member management page interface.

**SRS-03:** The system shall provide a registration form within a creating new member page interface to admin input member information.

**SRS-04:** The system shall provide service for validation input information.

**SRS-05:** The system shall provide notification to display a message after submitting a registration form.

**SRS-06:** The system shall provide service to store information into the database.

**SRS-07:** The system shall provide a user interface to display the new member information.

**SRS-08:** The system shall provide a link for logging in to the web application.

**SRS-09:** The system shall provide a login form within user interface to admin and wholesaler login users as a different role.

**SRS-10:** The system can hide the characters in the password field.

**SRS-11:** The system shall provide notification to display a message after authenticates.

**SRS-12:** The system can take wholesaler or admin to the index page of their user type.

**SRS-13:** The system shall provide a link for logging out from the web application.

**SRS-14:** The system shall provide confirmation dialog box.

**SRS-15:** The system shall provide a textbox within member management interface to search the member information.

**SRS-16:** The system shall provide a user interface to display list of member. In each label shall display member name text and profile picture on member list.

**SRS-17:** The system shall provide a user interface to display the old member information which are username, first name, last name, phone number, address, user type and profile picture on view information of member management page.

**SRS-18:** The system shall provide a link for update member information within the member management interface.

**SRS-19:** The system shall provide a member form within updating member information page interface to user update new member information.

**SRS-20:** The system shall provide confirmation button.

**SRS-21:** The system shall provide service to update member information into the database.

**SRS-22:** The system shall provide a link for delete member information within the member management interface.

**SRS-23:** The system shall provide service to delete member information into the database.

**SRS-24:** The system shall provide service to get new member information to display in member management interface.

**SRS-25:** The system shall provide a link for creating new bakery product information within the bakery product interface.

**SRS-26:** The system shall provide a bakery product form within a creating new bakery product information page interface to admin input bakery product information.

**SRS-27:** The system shall provide notification to display a message after submitting bakery product form.

**SRS-28:** The system shall provide a textbox within bakery product interface to search the bakery product information.

**SRS-29:** The system shall provide a user interface to display all list of bakery product. In each label shall display bakery product name text and bakery product picture on bakery product list.

**SRS-30:** The system shall provide a user interface to display the old bakery product information which are bakery product ID, bakery product name, product description, product price, product category and product picture on view information of bakery product page.

**SRS-31:** The system shall provide a link for update bakery product information within the bakery product interface.

**SRS-32:** The system shall provide a bakery product form within updating bakery product information page interface to admin update new bakery product information.

**SRS-33:** The system shall provide service to update bakery product information into the database.

**SRS-34:** The system shall provide a user interface to display the new bakery product information.

**SRS-35:** The system shall provide service to get new bakery product information to display in bakery product interface.

**SRS-36:** The system shall provide a link for delete bakery product information within the bakery product interface.

**SRS-37:** The system shall provide service to delete bakery product information into the database

## 

## 3.3 Activity Diagram

**AD-01:** Admin registration to activate member.

**AD-02:** Admin and wholesaler login to the system.

**AD-03:** Admin and wholesaler logout from the system.

**AD-04:** Admin update member information.

**AD-05:** Admin delete member information.

**AD-06:** Wholesaler update own information.

**AD-07:** Admin view member information.

**AD-08:** Admin add bakery product information.

**AD-09:** Admin update bakery product information.

**AD-10:** Admin delete bakery product information.

**AD-11:** Admin and wholesaler view bakery product information.

## 3.4 Use Case

**UC-01:** Registration member.

**UC-02:** Authentication.

**UC-03:** Manage all member information.

**UC-04:** Update own information.

**UC-05:** Manage all bakery product information.

**UC-06:** View bakery product information.

## 3.5 User Interface

**UI-01:** Home page

**UI-02:** Admin main lay out

**UI-03:** Wholesaler main lay out

**UI-04:** Create member page

**UI-05:** Create success page

**UI-06:** Create fail page

**UI-07:** Member information page

**UI-08:** Admin view list of member

**UI-09:** Admin edit member information

**UI-10:** Admin delete member information

**UI-11:** Wholesaler edit own information

**UI-12:** Admin create bakery product

**UI-13:** Admin edit bakery product

**UI-14:** Admin delete bakery product

**UI-15:** Admin view list of bakery product

**UI-16:** Wholesaler view list of bakery product

**UI-17:** Bakery product information page

## 3.6 Sequence Diagram

**SD-01:** Admin can activate member

**SD-02:** User can authentication

**SD-03:** Admin can manage member information

**SD-04:** Wholesaler can update own member information

**SD-05:** Admin can manage all bakery product

**SD-06:** Wholesaler can view all bakery product