Traceability Record

**Document History**

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# **Introduction**

**1.1 Purpose**

The purpose of traceability record is tracking each process together. The tracking makes the reader that read the document more understand how the system works together. This document contains about the traceability matrix and record.

**1.2 Scope**

The application will be develop by Android studio.

* Feature in progress# 1.
* Focus on only one supermarket.
* Provide management system products in database.
* Provide android application for manage wish list.
* Convenient features for android application site.
  1. **Acronyms**

**Acronyms**

ADA Activity Diagram Android

ADW Activity Diagram Web

APK Android Package Kit

SDA Sequence Diagram Android

SDW Sequence Diagram Web

SK Saksorn Khongsirirat

SRSA System Requirement Specification Android

SRSA System Requirement Specification Web

TCA Test Case Android

TRA Test Record Android

TCA Test Case Web

TRA Test Record Web

UCA Use case Diagram Android

UCW Use case Diagram Website

URSA User Requirement Specification Android

URSW User Requirement Specification Website

VC Visava Chumnuam

1. **Traceability Matrix**

2.1 User Requirement Specification and System Requirement Specification (Android Application**)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA | SRSA-23 | SRSA-24 | SRSA-25 | SRSA-26 | SRSA-27 | SRSA-28 | SRSA-29 | SRSA-30 | SRSA-31 | SRSA-32 | SRSA-33 | SRSA-34 | SRSA-35 |
| 1 | URSA-08 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | URSA-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | URSA-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | URSA-11 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | URSA-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | URSA-13 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | URSA-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.2 Use Case and User Requirement Specification (Android Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Use Case | URSA-08 | URSA-09 | URSA-10 | URSA-11 | URSA-12 | URSA-13 | URSA-14 |
| 1 | View shopping cart. |  |  |  |  |  |  |  |
| 2 | Add product to shopping cart. |  |  |  |  |  |  |  |
| 3 | Edit price of product. |  |  |  |  |  |  |  |
| 4 | Delete product. |  |  |  |  |  |  |  |
| 5 | View wish list. |  |  |  |  |  |  |  |
| 6 | Add product to the wish list. |  |  |  |  |  |  |  |
| 7 | Check product detail. |  |  |  |  |  |  |  |

2.3 Sequence Diagram and User Requirement Specification (Android Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Sequence Diagram | URSA-08 | URSA-09 | URSA-10 | URSA-11 | URSA-12 | URSA-13 | URSA-14 |
| 1 | View the Shopping cart |  |  |  |  |  |  |  |
| 2 | Add Product |  |  |  |  |  |  |  |
| 3 | Edit Amount |  |  |  |  |  |  |  |
| 4 | Delete Product |  |  |  |  |  |  |  |
| 5 | View the Wish list |  |  |  |  |  |  |  |
| 6 | Add a new product to the Wish list page |  |  |  |  |  |  |  |
| 7 | Check product detail |  |  |  |  |  |  |  |

2.4 Activity Diagram and User Requirement Specification (Android Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Activity Diagram | URSA-08 | URSA-09 | URSA-10 | URSA-11 | URSA-12 | URSA-13 | URSA-14 |
| 1 | View the Shopping cart |  |  |  |  |  |  |  |
| 2 | Add Product |  |  |  |  |  |  |  |
| 3 | Edit Amount |  |  |  |  |  |  |  |
| 4 | Delete Product |  |  |  |  |  |  |  |
| 5 | View the Wish list |  |  |  |  |  |  |  |
| 6 | Add a new product to the Wish list page |  |  |  |  |  |  |  |
| 7 | Check product detail |  |  |  |  |  |  |  |

2.5 System Requirement Specification (Android Application) and Unit Test (Android)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | SRSA | UTW-12 | UTW-13 | UTW-14 | UTW-15 | UTW-16 | UTW-17 | UTW-18 |
| 1 | SRSA-27 |  |  |  |  |  |  |  |
| 2 | SRSA-28 |  |  |  |  |  |  |  |
| 3 | SRSA-29 |  |  |  |  |  |  |  |
| 4 | SRSA-30 |  |  |  |  |  |  |  |
| 5 | SRSA-31 |  |  |  |  |  |  |  |
| 6 | SRSA-32 |  |  |  |  |  |  |  |

2.6 System Requirement Specification (Android Application) and Unit Test Record (Android)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | SRSA | UTRW-12 | UTRW-13 | UTRW-14 | UTRW-15 | UTRW-16 | UTRW-17 | UTRW-18 |
| 1 | SRSA-27 |  |  |  |  |  |  |  |
| 2 | SRSA-28 |  |  |  |  |  |  |  |
| 3 | SRSA-29 |  |  |  |  |  |  |  |
| 4 | SRSA-30 |  |  |  |  |  |  |  |
| 5 | SRSA-31 |  |  |  |  |  |  |  |
| 6 | SRSA-32 |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA | TCA-01 | TCA-02 | TCA-03 | TCA-04 | TCA-05 | TCA-06 | TCA-07 | TCA-08 | TCA-09 | TCA-10 | TCA-11 | TCA-12 | TCA-13 | TCA-14 | TCA-15 | TCA-16 | TCA-17 | TCA-18 | TCA-19 | TCA-20 |
| 1 | URSA-08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | URSA-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | URSA-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | URSA-11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | URSA-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | URSA-13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | URSA-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.7 User Requirement Specification (Android Application) and Test Case (Android)

2.8 User Requirement Specification (Android Application) and Test Record (Android)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA | TRA-01 | TRA-02 | TRA-03 | TRA-04 | TRA-05 | TRA-06 | TRA-07 | TRA-08 | TRA-09 | TRA-10 | TRA-11 | TRA-12 | TRA-13 | TRA-14 | TRA-15 | TRA-16 | TRA-17 | TRA-18 | TRA-19 | TCA-20 |
| 1 | URSA-08 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | URSA-09 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | URSA-10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | URSA-11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | URSA-12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | URSA-13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | URSA-14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.9 User Requirement Specification (Android Application) and Record (Android Application)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA. ID. | URSA | SRSA | UCA | ADA | SDA | TCA | TRA | UTA | UTRA |
| 1 | 08 | The customer can view the shopping cart that show detail of the product that add by the customer in list format. | 23,32 | 01 | 01 | 01 | 01 | 01 | 16 | 16 |
| 2 | 09 | The customer can add a new product to the shopping cart by input ID of the product manually or using scanning barcode an amount of the product. | 24,25,26,27,28 | 02 | 02 | 02 | 02,03,04,05,09 10 | 02,03,04,05,09 10 | 12,13,17 | 12,13,17 |
| 3 | 10 | The customer can edit the amount. | 29 | 03 | 03 | 03 | 06,16 | 06 |  |  |
| 4 | 11 | The customer can delete the product. | 30 | 04 | 04 | 04 | 07,08,17,18 | 07,08 | 18 | 18 |
| 5 | 12 | The customer can view the wish list page that show the detail (check box, name, amount, total price) of product that add by the customer in list format. | 31,32,33 | 05 | 05 | 05 | 11,14,15 | 11,14,15 | 14,15,16 | 14,15,16 |
| 6 | 13 | The customer can add a product to the wish list of application for doing next process by selecting the product list that query from database. | 34 | 06 | 06 | 06 | 12,13,20 | 12,13,20 |  |  |
| 7 | 14 | The customer can view a product detail that contain the ID, name, description, categorize, net weight, price, the amount required for promotion and promotion of the product when the user hold click on the product. | 35 | 07 | 07 | 07 | 19 | 19 |  |  |

**ADA**- Activity Diagram Android

**SDA**- Sequence Diagram Android

**SRSA**- Software Requirement specification Android

**TCA**- Test Case Android

**TRA-** Test Record Android

**UCA**- Use Case Android

**URSA**- User Requirement Specification Android

**UTA-** Unit Test Android

**UTRA-** Unit Test Record Android

2.10 User Requirement Specification and System Requirement Specification (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSW | SRSW-01 | SRSW-02 | | SRSW-03 | | SRSW-04 | | SRSW-05 | SRSW-06 | SRSW-07 | SRWS-08 | SRSW-09 | SRSW-010 | SRSW-011 | SRSW-012 | SRSW-013 | SRSW-014 | SRSW-015 | SRSW-016 | SRSW-017 | SRSW-018 | SRSW-019 | SRSW-020 |
| 1 | URSW-01 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | URSW-02 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | URSW-03 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | URSW-04 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | URSW-05 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | URSW-06 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | URSW-07 |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.11 Use Case and User Requirement Specification (Web Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Use Case | URSW-01 | URSW-02 | URSW-03 | URSW-04 | URSW-05 | URSW-06 | URSW-07 |
| 1 | Login |  |  |  |  |  |  |  |
| 2 | Add new product |  |  |  |  |  |  |  |
| 3 | View products |  |  |  |  |  |  |  |
| 4 | Search product by ID |  |  |  |  |  |  |  |
| 5 | Edit product’s information |  |  |  |  |  |  |  |
| 6 | Delete product |  |  |  |  |  |  |  |
| 7 | Log out |  |  |  |  |  |  |  |

2.12 Activity Diagram and User Requirement Specification (Web Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Activity Diagram Web | URSW-01 | URSW-02 | URSW-03 | URSW-04 | URSW-05 | URSW-06 | URSW-07 |
| 1 | Login |  |  |  |  |  |  |  |
| 2 | Add new product |  |  |  |  |  |  |  |
| 3 | View products |  |  |  |  |  |  |  |
| 4 | Search product by ID |  |  |  |  |  |  |  |
| 5 | Edit product’s information |  |  |  |  |  |  |  |
| 6 | Delete product |  |  |  |  |  |  |  |
| 7 | Log out |  |  |  |  |  |  |  |

2.13 Sequence Diagram and User Requirement Specification (Web Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Sequence Diagram Web | URSW-01 | URSW-02 | URSW-03 | URSW-04 | URSW-05 | URSW-06 | URSW-07 |
| 1 | Login |  |  |  |  |  |  |  |
| 2 | Add new product |  |  |  |  |  |  |  |
| 3 | View products |  |  |  |  |  |  |  |
| 4 | Search product by ID |  |  |  |  |  |  |  |
| 5 | Edit product’s information |  |  |  |  |  |  |  |
| 6 | Delete product |  |  |  |  |  |  |  |
| 7 | Log out |  |  |  |  |  |  |  |

2.14 System Requirement Specification (Web Application) and Unit Test Case (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | SRSW | UTW-01 | UTW-02 | UTW-03 | UTW-04 | UTW-05 | UTW-06 | UTW-07 | UTW-08 | UTW-09 | UTW-10 | UTW-11 |
| 1 | SRSW-01 |  |  |  |  |  |  |  |  |  |  |  |
| 2 | SRSW-02 |  |  |  |  |  |  |  |  |  |  |  |
| 3 | SRSW-03 |  |  |  |  |  |  |  |  |  |  |  |
| 4 | SRSW-04 |  |  |  |  |  |  |  |  |  |  |  |
| 5 | SRSW-05 |  |  |  |  |  |  |  |  |  |  |  |
| 6 | SRSW-06 |  |  |  |  |  |  |  |  |  |  |  |
| 7 | SRSW-07 |  |  |  |  |  |  |  |  |  |  |  |
| 8 | SRSW-08 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | SRSW-09 |  |  |  |  |  |  |  |  |  |  |  |
| 10 | SRSW-10 |  |  |  |  |  |  |  |  |  |  |  |
| 11 | SRSW-11 |  |  |  |  |  |  |  |  |  |  |  |
| 12 | SRSW-12 |  |  |  |  |  |  |  |  |  |  |  |
| 13 | SRSW-13 |  |  |  |  |  |  |  |  |  |  |  |
| 14 | SRSW-14 |  |  |  |  |  |  |  |  |  |  |  |
| 15 | SRSW-15 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | SRSW-16 |  |  |  |  |  |  |  |  |  |  |  |
| 17 | SRSW-17 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | SRSW-18 |  |  |  |  |  |  |  |  |  |  |  |
| 19 | SRSW-19 |  |  |  |  |  |  |  |  |  |  |  |
| 20 | SRSW-20 |  |  |  |  |  |  |  |  |  |  |  |
| 21 | SRSW-21 |  |  |  |  |  |  |  |  |  |  |  |
| 22 | SRSW-22 |  |  |  |  |  |  |  |  |  |  |  |

2.15 System Requirement Specification (Web Application) and Unit Test Record (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | SRSW | UTRW-01 | UTW-02 | UTW-03 | UTW-04 | UTW-05 | UTW-06 | UTW-07 | UTW-08 | UTW-09 | UTW-10 | UTW-11 |
| 1 | SRSW-01 |  |  |  |  |  |  |  |  |  |  |  |
| 2 | SRSW-02 |  |  |  |  |  |  |  |  |  |  |  |
| 3 | SRSW-03 |  |  |  |  |  |  |  |  |  |  |  |
| 4 | SRSW-04 |  |  |  |  |  |  |  |  |  |  |  |
| 5 | SRSW-05 |  |  |  |  |  |  |  |  |  |  |  |
| 6 | SRSW-06 |  |  |  |  |  |  |  |  |  |  |  |
| 7 | SRSW-07 |  |  |  |  |  |  |  |  |  |  |  |
| 8 | SRSW-08 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | SRSW-09 |  |  |  |  |  |  |  |  |  |  |  |
| 10 | SRSW-10 |  |  |  |  |  |  |  |  |  |  |  |
| 11 | SRSW-11 |  |  |  |  |  |  |  |  |  |  |  |
| 12 | SRSW-12 |  |  |  |  |  |  |  |  |  |  |  |
| 13 | SRSW-13 |  |  |  |  |  |  |  |  |  |  |  |
| 14 | SRSW-14 |  |  |  |  |  |  |  |  |  |  |  |
| 15 | SRSW-15 |  |  |  |  |  |  |  |  |  |  |  |
| 16 | SRSW-16 |  |  |  |  |  |  |  |  |  |  |  |
| 17 | SRSW-17 |  |  |  |  |  |  |  |  |  |  |  |
| 18 | SRSW-18 |  |  |  |  |  |  |  |  |  |  |  |
| 19 | SRSW-19 |  |  |  |  |  |  |  |  |  |  |  |
| 20 | SRSW-20 |  |  |  |  |  |  |  |  |  |  |  |
| 21 | SRSW-21 |  |  |  |  |  |  |  |  |  |  |  |
| 22 | SRSW-22 |  |  |  |  |  |  |  |  |  |  |  |

2.16 User Requirement Specification (Web Application) and Test Case (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA description | TCW-01 | TCW-02 | TCW-03 | TCW-04 | TCW-05 | TCW-06 | TCW-07 | TCW-08 | TCW-09 | TCW-10 | TCW-11 | TCW-12 | TCW-13 |
| 1 | Admin can log in to the web application. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Admin can add new product to the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Admin can view all products in the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Admin can search product by product’s ID in the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Admin can edit product’s information. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Admin can delete product from the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Admin can log out from web application. |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.17 User Requirement Specification (Web Application) and Test Record (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA description | TRW-01 | TRW-02 | TRW-03 | TRW-04 | TRW-05 | TRW-06 | TRW-07 | TRW-08 | TRW-09 | TRW-10 | TRW-11 | TRW-12 | TRW-13 |
| 1 | Admin can log in to the web application. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Admin can add new product to the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Admin can view all products in the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Admin can search product by product’s ID in the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Admin can edit product’s information. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Admin can delete product from the system. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Admin can log out from web application. |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.18 Record (Web Application)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSW. ID. | URSW | SRSW | UCW | ADW | SDW | TCW | TRW | UTW | UTRW |
| 1 | 01 | Admin can log in to the web application. | 01,02,03,04 | 01 | 01 | 01 | 01,02,03,04 | 01,02,03,04 | 01,03 | 01,03 |
| 2 | 02 | Admin can add new product to the system. | 03,05,06,07,08,09 | 02 | 02 | 02 | 05,06 | 05,06 | 03,06 | 03,06 |
| 3 | 03 | Admin can view all products in the system. | 03,05 | 03 | 03 | 03 | 07 | 07 | 03 | 03 |
| 4 | 04 | Admin can search product by product’s ID in the system. | 03,10,11 | 04 | 04 | 04 | 08 | 08 | 03,04,09 | 03,04,09 |
| 5 | 05 | Admin can edit product’s information. | 03,12,13,14,15 | 05 | 05 | 05 | 09,10 | 09,10 | 02,03,08,05 | 02,03,08,05 |
| 6 | 06 | Admin can delete product from the system. | 03,16,17,18,19 | 06 | 06 | 06 | 11,12 | 11,12 | 03,07 | 03,07 |
| 7 | 07 | Admin can log out from web application. | 01,20 | 07 | 07 | 07 | 13 | 13 |  |  |

**ADW**- Activity Diagram Web

**SDW**- Sequence Diagram Web

**SRSW**- Software Requirement Specification Web

**TCW**- Test Case Web

**TRW**- Test Record Web

**UCW**- Use Case Web

**URSW**- User Requirement Specification Web

**UTRW**- Unit Test Record Web

**UTW**- Unit Test Web