Traceability Record

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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 description | SRSA-01 | SRSA-02 | SRSA-03 | SRSA-04 | SRSA-05 | SRSA-06 | SRSA-07 |
| 1 | The customer can view the shopping cart that show detail of the product that add by the customer in list format. |  |  |  |  |  |  |  |
| 2 | 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. |  |  |  |  |  |  |  |
| 3 | The customer can edit the amount of the product in the shopping cart. |  |  |  |  |  |  |  |
| 4 | The customer can delete the product from the shopping cart. |  |  |  |  |  |  |  |

2.2 Use Case and User Requirement Specification (Android Application)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Use Case | URSA-01 | URSA-02 | URSA-03 | URSA-04 |
| 1 | View shopping cart. |  |  |  |  |
| 2 | Add product to shopping cart. |  |  |  |  |
| 3 | Edit price of product in shopping cart. |  |  |  |  |
| 4 | Delete product from shopping cart. |  |  |  |  |

2.3 Sequence Diagram and User Requirement Specification (Android Application)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Sequence Diagram | URSA-01 | URSA-02 | URSA-03 | URSA-04 |
| 1 | View Shopping cart |  |  |  |  |
| 2 | Add Product |  |  |  |  |
| 3 | Edit Amount |  |  |  |  |
| 4 | Delete Product |  |  |  |  |

2.4 Activity Diagram and User Requirement Specification (Android Application)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Activity Diagram | URSA-01 | URSA-02 | URSA-03 | URSA-04 |
| 1 | View Product |  |  |  |  |
| 2 | Add Product |  |  |  |  |
| 3 | Edit Amount Of Product |  |  |  |  |
| 4 | Delete Product |  |  |  |  |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA description | TCA-01 | TCA -02 | TCA -03 | TCA -04 | TCA -05 | TCA -06 | TCA -07 | TCA -08 |
| 1 | The customer can view the shopping cart that show detail of the product that add by the customer in list format. |  |  |  |  |  |  |  |  |
| 2 | 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. |  |  |  |  |  |  |  |  |
| 3 | The customer can edit the amount of the product in the shopping cart. |  |  |  |  |  |  |  |  |
| 4 | The customer can delete the product from the shopping cart. |  |  |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA description | TRA-01 | TRA-02 | TRA-03 | TRA-04 | TRA-05 | TRA-06 | TRA-07 | TRA-08 |
| 1 | The customer can view the shopping cart that show detail of the product that add by the customer in list format. |  |  |  |  |  |  |  |  |
| 2 | 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. |  |  |  |  |  |  |  |  |
| 3 | The customer can edit the amount of the product in the shopping cart. |  |  |  |  |  |  |  |  |
| 4 | The customer can delete the product from the shopping cart. |  |  |  |  |  |  |  |  |

2.7 Record (Android Application)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSA. ID. | URSA | SRSA | UCA | ADA | SDA | TCA | TRA |
| 1 | 01 | The customer can view the shopping cart that show detail of the product that add by the customer in list format. | 01,02 | 01 | 01 | 01 | 01 | 01 |
| 2 | 02 | 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. | 03,04,  05 | 02 | 02 | 02 | 02,03,04,  05 | 02,03,04,  05 |
| 3 | 03 | The customer can edit the amount of the product in the shopping cart. | 06 | 03 | 03 | 03 | 06 | 06 |
| 4 | 04 | The customer can delete the product from the shopping cart. | 07 | 04 | 04 | 04 | 07,08 | 07,08 |

**URSA**- User Requirement Specification Android

**SRS**- Software Requirement specification Android

**UCA**- Use Case Android

**SDA**- Sequence Diagram Android

**ADA**- Activity Diagram Android

**TCA**- Test Case Android

**TRA-** Test Record Android

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | URSW description | 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 | 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.9 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 |  |  |  |  |  |  |  |

2.10 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 |  |  |  |  |  |  |  |

2.11 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 |  |  |  |  |  |  |  |

2.12 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.13 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |

2.14 Record (Web Application)

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

**URSW**- User Requirement Specification Web

**SRSW**- Software Requirement Specification Web

**UCW**- Use Case Web

**SDW**- Sequence Diagram Web

**ADW**- Activity Diagram Web

**TCW**- Test Case Web

**TRW**- Test Record Web