# Revision history

## Change Record

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Name** | **Revision Description** |
| v.0.1 | February 28, 2014 | Jakkrit Thuikham | Adding User acceptance test documentation. |
| v.0.2 | March 1, 2014 | Putsacha Owatsakul | Adding User acceptance test documentation. |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Reviewer

|  |  |  |
| --- | --- | --- |
| **Name** | **Version Approved** | **Date** |
| Putsasha Owasakul | v.0.1 | February 28, 2014 |
| Jakkrit Thuikham | v.0.2 | March 1,2014 |
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# References

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System requirement specification

# Introduction

User Acceptance Testing (UAT) is one sure way to reduce or eliminate change requests, and drastically reduce project costs. UAT is an effective process with a high rate of return for those who take the time to implement and follow its discipline.

# Personnel

|  |  |  |
| --- | --- | --- |
| **No** | **Student ID** | **Team member name** |
| **1** | **542115007** | Jakkrit Thukhum |
| **2** | **542115037** | Putsacha Owatsakul |
| **3** | **542115059** | Wuthipong Kaewboonsom |

# Test tools

JUnit Test Frame work

# List of User Acceptance Testing

|  |  |  |
| --- | --- | --- |
| **UAT ID** | **Description** | **Includes URS** |
| UAT-01 | Customer accept the test of registration function | URS-01 |
| UAT-02 | Customer accept the test of Login function | URS-02 |
| UAT-03 | Customer accept the test of view all the product category | URS-03 |
| UAT-04 | Customer accept the test of search function | URS-04 |
| UAT-05 | Customer accept the test of adding product into shopping cart function | URS-05 |
| UAT-06 | Customer accept the test of update product in shopping cart function | URS-06 |
| UAT-07 | Customer accept the test of remove product in shopping cart function | URS-06 |
| UAT-08 | Customer accept the test of save product in shopping cart function | URS-07 |
| UAT-09 | Customer accept the test of checkout function | URS-08 |
| UAT-10 |  | URS-09 |
| UAT-11 | Customer accept the test of Logout function | URS-10 |
| UAT-12 | Administrator accept the test of Login function | URS-11 |
| UAT-13 | Administrator accept the test of view the shopping history of all customer by name function | URS-12 |
| UAT-14 | Administrator accept the test of view the shopping history of all customer by date function | URS-12 |
| UAT-15 |  | URS-13 |
| UAT-16 | Administration accept the test of search an information of customer function | URS-14 |
| UAT-17 | Administration accept the test of update information of registration function | URS-14 |
| UAT-18 | Administrator accept the test of Logout function | URS-15 |

# Test case of User acceptance Test (UAT)

## UAT-01: Customer accept the test of registration function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-01 | | |
| **Created By:** | Wuthipong Keawboonsom | **Last Updated By:** | Wuthipong Keawboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of registration function which reference to the URS-01. | | |
| **URS Includes:** | URS-01: Customer can registration themselves as customer. | | |
| **Description** | This test case is a User Acceptance test for URS-01. | | |
| **Test Step** | 1. Customer request registration Page 2. Input a registration Detail which consist of username , password, name, birthDate, email, telephoneNumber, address and picture 3. The system verify and validate the information. 4. The system adding the information of registration into database. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer input wrong name format. |  |
| 2 | Customer input wrong date of birth format. |  |
| 3 | Customer input wrong email format. |  |
| 4 | Customer input wrong telephone number format |  |
| 5 | Customer input wrong address format. | -\*/-28 |
| 6 | Customer brows wrong type of file format. | Jstl-1.2.jar |
| 7 | Customer input valid information. | Ref: Existing data in database |
| 8 | Customer input duplicate data as existing data. | name: Putsacha Owatsakul |

**Unit Test of UAT-01**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | | | | | **Expected Output** | **Actual Output** |
| **username** | **password** | **name** | **birthDate** | **email** | **telephoneNumber** | **address** | **picture** |
| 1 | Customer request a registration page. | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | The system shall provide UI of registration page. |  |
| 2 | Customer input wrong name format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| 3 | Customer input wrong date of birth format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The date of birth is a wrong format” |  |
| 4 | Customer input wrong email format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The email is a wrong format” |  |
| 5 | Customer input wrong telephone number format |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The telephone number is a wrong format” |  |
| 6 | Customer input wrong address format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The address is a wrong format” |  |
| 7 | Customer brows wrong type of file format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The file browsed is invalid format” |  |
| 8 | Customer input valid information. |  |  |  |  |  |  |  |  | The system add the information of registration into database. |  |
| 9 | Customer input duplicate data as existing data. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The data is already exist” |  |

## UAT-02: Customer accept the test of Login function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-02 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of search function which reference to the URS-02. | | |
| **URS Includes:** | URS-02: Customer can Login to the system. | | |
| **Description** | This test case is a User Acceptance test for URS-02. | | |
| **Test Step** | 1. Customer request Home Page 2. Input a username and password. 3. Select the Login button. 4. The system verify and validate the information of product by using product name. 5. The system view Home Pages. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Home Page | - |
| 2 | Customer login Successful. | username: admin, password: admin |
| 3 | Customer input wrong username or password. |  |
| 4 | Customer input wrong name format. |  |
| 5 | Customer input wrong password format. |  |

**Unit Test of UAT-02**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request Home Page | - | The system provide UI of Home page. |  |
| 2 | Customer login Successful. | username: admin, password: admin | The system provide UI of Product page. |  |
| 3 | Customer input wrong username or password. |  | The system provide an interface for display the error message as ” Invalid insertion” |  |
| 4 | Customer input wrong username format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| 5 | Customer input wrong password format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |

## UAT-03: Customer accept the test of view all the product category.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-03 | | |
| **Created By:** | Wuthipong Keawboonsom | **Last Updated By:** | Wuthipong Keawboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of view all the product category which reference to the URS-03. | | |
| **URS Includes:** | URS-03: Customer can view all the product category. | | |
| **Description** | This test case is a User Acceptance test for URS-03. | | |
| **Test Step** | 1. Customer request Product Page. 2. View Product Page. 3. The system show all the product detail in Product Page. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Product Page | - |
| 2 | Customer can add a new product successful |  |
| 3 | Customer input wrong name format. | Name: “” |
| 4 | Customer input wrong price format. |  |
| 5 | Customer input wrong image file format. |  |
| 6 | Customer input duplicate data as existing data. |  |

**Unit Test of UAT-03**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request Product Page | - | The system provide UI of Product page. |  |
| 2 | Customer can view all the product. | - | The system show the product detail that consist of name, description, price and image. |  |

## UAT-04: Customer accept the test of search function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-04 | | |
| **Created By:** | Wuthipong Keawboonsom | **Last Updated By:** | Wuthipong Keawboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of search function which reference to the URS-04. | | |
| **URS Includes:** | URS-04: Customer can search the product. | | |
| **Description** | This test case is a User Acceptance test for URS-04. | | |
| **Test Step** | 1. Customer request Home Page 2. Input a name of product. 3. Select the search button. 4. The system verify and validate the information of product by using product name. 5. The system view a product detail on Product Pages. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Home Page |  |
| 2 | Customer input wrong name format. |  |
| 3 | Customer input name which exist in the database |  |
| 4 | Customer input name which not exist in the database |  |

**Unit Test of UAT-04**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request Home Page | - | The system provide UI of Home page. |  |
| 2 | Customer input wrong name format. |  | The system provide an interface for display the error message as ” The product’s name is a wrong format” |  |
| 3 | Customer input name which exist in the database |  | The system provide an interface for display a product detail. |  |
| 4 | Customer input name which not exist in the database |  | The system provide an interface for display message as ”The product is not exits” |  |

## UAT-05: Customer accept the test of adding product into shopping cart function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-05 | | |
| **Created By:** | Jakkrit Thuikham | **Last Updated By:** | Jakkrit Thuikham |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of adding product in shopping cart function which reference to the URS-05. | | |
| **URS Includes:** | URS-05: Customer can add the product as many products as customer want to the shopping cart. | | |
| **Description** | This test case is a User Acceptance test for URS-05. | | |
| **Test Step** | 1. Customer request Shopping cart Page 2. Select a product which customer want to add. 3. Select add product button. 4. The system add a product into the shopping cart. 5. The system view a product detail on Product Pages. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Shopping Cart Page | - |
| 2 | Customer add product with valid value. | name: Channel  description:  price: 126  image: Bag\_02.jpg |

**Unit Test of UAT-05**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request Shopping Cart Page | - | The system provide UI of Shopping Cart page. |  |
| 2 | Customer can add product. | name: Channel  description:  price: 126  image: Bag\_02.jpg | The system add product detail into shopping cart as, name: Channel, description:, price: 126, image: Bag\_02.jpg |  |

## UAT-06: Customer accept the test of edit product in shopping cart function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-06 | | |
| **Created By:** | Jakkrit Thuikham | **Last Updated By:** | Jakkrit Thuikham |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of edit product in shopping cart function which reference to the URS-06. | | |
| **URS Includes:** | URS-06: Customer can edit the product in the shopping cart. | | |
| **Description** | This test case is a User Acceptance test for URS-06. | | |
| **Test Step** | 1. Customer request Shopping cart Page 2. Select a product which customer want to edit. 3. Select update product button. 4. The system update a product detail into database. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a Shopping Cart Page | - |
| 2 | Customer update a product with valid value. |  |
| 3 | Customer update name of product with wrong name format. |  |
| 4 | Customer update price of product with wrong price format. |  |
| 5 | Customer update image of product with wrong image format. |  |
| 6 | Customer update product which existing product. |  |

**Unit Test of UAT-06**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | **Expected Output** | **Actual Output** |
| **name** | **Description** | **Price** | **image** |  |  |
| 1 | Customer request a Shopping Cart Page | - | - | - | - | The system provide UI of Shopping Cart page. |  |
| 2 | Customer update a product with valid value. |  |  |  |  | The system update a new product detail into database. |  |
| 3 | Customer update name of product with wrong name format. |  |  |  |  | The system provide an interface for display the error message as ” The product’s name is a wrong format” |  |
| 4 | Customer update price of product with wrong price format. |  |  |  |  | The system provide an interface for display the error message as ” The product’s price is a wrong format” |  |
| 5 | Customer update image of product with wrong image format. |  |  |  |  | The system provide an interface for display the error message as ” The product’s image is a wrong format” |  |
| 6 | Customer update product which existing product. |  |  |  |  | The system provide an interface for display message as ”The product is already exits” |  |

## UAT-07: Customer accept the test of remove product in shopping cart function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-07 | | |
| **Created By:** | Jakkrit Thuikham | **Last Updated By:** | Jakkrit Thuikham |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of remove product in shopping cart function which reference to the URS-06. | | |
| **URS Includes:** | URS-06: Customer can edit the product in the shopping cart. | | |
| **Description** | This test case is a User Acceptance test for URS-06. | | |
| **Test Step** | 1. Customer request Shopping cart Page 2. Select a product which customer want to edit. 3. Select remove product button. 4. The system add a product into the shopping cart. 5. The system update a product detail into database. | | |

Pre-data in Database: Table: Shopping Cart

|  |  |  |  |
| --- | --- | --- | --- |
| **Shopping Cart ID** | **Product name** | **Date** | **amount** |
| 1 | Channel | 2014-01-03 | 1 |
| 2 | Gucci | 2014-01-03 | 2 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a Shopping Cart page. |  |
| 2 | Customer delete a product. |  |
| 3 | Customer delete a product with wrong amount insertion. |  |
| 4 | Customer delete a product with wrong amount format. |  |

**Unit Test of UAT-07**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | **Expected Output** | **Actual Output** |
| **Shopping Cart ID** | **Product name** | **Date** | **amount** |  |  |
| 1 | Customer request a Shopping Cart page. | - | - | - | - | The system provide UI of Shopping Cart page. |  |
| 2 | Customer can delete a product. |  |  |  |  | The system delete a new product detail into database. |  |
| 3 | Customer delete a product with over amount. |  |  |  |  | The system provide an interface for display the error message as ” Invalid insert” |  |
| 4 | Customer delete a product with wrong amount format. |  |  |  |  | The system provide an interface for display the error message as ” The product’s amount is a wrong format” |  |

## UAT-08: Customer accept the test of save product in shopping cart function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-08 | | |
| **Created By:** | Jakkrit Thuikham | **Last Updated By:** | Jakkrit Thuikham |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of save product function which reference to the URS-07. | | |
| **URS Includes:** | URS-07: Customer can save the product in the shopping cart. | | |
| **Description** | This test case is a User Acceptance test for URS-07. | | |
| **Test Step** | 1. Customer request Shopping cart Page 2. Select a product which customer want to save. 3. Select save product function. 4. The system save a product into the shopping cart. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a Shopping Cart page. | - |
| 2 | Customer can save a product correctly. |  |

**Unit Test of UAT-08**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request a Shopping Cart page. | - | The system provide UI of Shopping Cart page. |  |
| 2 | Customer can save a product correctly. |  | The system save a list of product in shopping cart. |  |

## UAT-09: Customer accept the test of checkout function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-09 | | |
| **Created By:** | Wuthipong Kaewboonsom | **Last Updated By:** | Wuthipong Kaewboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of save product function which reference to the URS-08. | | |
| **URS Includes:** | URS-08: Customer can check out for purchase the product. | | |
| **Description** | This test case is a User Acceptance test for URS-08. | | |
| **Test Step** | 1. Customer request Checkout Page 2. Select a payment option. 3. Select a checkout button. 4. The system calculate a total price. 5. The system view a checkout list. | | |

Pre-data in Database: Table: Shopping Cart

|  |  |  |  |
| --- | --- | --- | --- |
| **Shopping Cart ID** | **Product name** | **Date** | **amount** |
| 1 | Channel | 2014-01-03 | 1 |
| 2 | Gucci | 2014-01-03 | 2 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a Checkout page. | - |
| 2 | Customer select a Transfer option. | Option: Transfer |
| 3 | Customer select a Credit card option. | Option: Credit card |
| 4 | Customer select a Paypal option. | Option: Paypal |
| 5 | Customer doesn’t select anything and select checkout button. | - |

**Unit Test of UAT-09**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request a Checkout page. | - | The system provide UI of Checkout page. |  |
| 2 | Customer select a Transfer option. | Option: Transfer | The system calculate a total price with the transfer option. |  |
| 3 | Customer select a Credit card option. | Option: Credit card | The system calculate a total price with the credit card option. |  |
| 4 | Customer select a Paypal option. | Option: Paypal | The system calculate a total price with the Paypal option. |  |
| 5 | Customer doesn’t select anything and select checkout button. | - | The system provide the interface of error message as “Please select payment option ” |  |

## UAT-10: Customer accept the test of Logout function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-010 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of logout function which reference to the URS-10. | | |
| **URS Includes:** | URS-10: Administrator can Logout to the system. | | |
| **Description** | This test case is a User Acceptance test for URS-10. | | |
| **Test Step** | 1. Customer request Home Page 2. Input a username and password. 3. Select the Login button. 4. The system verify and validate the information of product by using product name. 5. The system view Home Pages. | | |

Existing Data in Database:

|  |  |
| --- | --- |
| **username:** | admin |
| **password:** | admin |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request Home Page | - |
| 2 | Administrator login Successful. | username: admin, password: admin |
| 3 | Administrator input wrong username or password. |  |
| 4 | Administrator input wrong name format. |  |
| 5 | Administrator input wrong password format. |  |

**Unit Test of UAT-02**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request Home Page | - | The system provide UI of Home page. |  |
| 2 | Administrator login Successful. | username: admin, password: admin | The system provide UI of Product page. |  |
| 3 | Administrator input wrong username or password. |  | The system provide an interface for display the error message as ” Invalid insertion” |  |
| 4 | Administrator input wrong username format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| 5 | Administrator input wrong password format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |

## UAT-11: Customer accept the test of Logout function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-11 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of logout function which reference to the URS-10. | | |
| **URS Includes:** | URS-10: Customer can Logout to the system. | | |
| **Description** | This test case is a User Acceptance test for URS-10. | | |
| **Test Step** | 1. Customer request Home Page 2. Select the Logout button. 3. The system view Home Pages. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Home Page | - |
| 2 | Customer logout Successful. | - |

**Unit Test of UAT-11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Customer request Home Page | - | The system provide UI of Home page. |  |
| 2 | Customer logout Successful. | - | The system provide UI of Home page. |  |

## UAT-12: Administrator accept the test of Login function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-12 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Administrator accept the test of search function which reference to the URS-11. | | |
| **URS Includes:** | URS-11: Administrator can Login to the system. | | |
| **Description** | This test case is a User Acceptance test for URS-11. | | |
| **Test Step** | 1. Administrator request Home Page 2. Input a username and password. 3. Select the Login button. 4. The system verify and validate the information of product by using product name. 5. The system view Home Pages. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request Home Page | - |
| 2 | Administrator login Successful. | username: admin, password: admin |
| 3 | Administrator input wrong username or password. |  |
| 4 | Administrator input wrong name format. |  |
| 5 | Administrator input wrong password format. |  |

**Unit Test of UAT-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request Home Page | - | The system provide UI of Home page. |  |
| 2 | Administrator login Successful. | username: admin, password: admin | The system provide UI of Product page. |  |
| 3 | Administrator input wrong username or password. |  | The system provide an interface for display the error message as ” Invalid insertion” |  |
| 4 | Administrator input wrong username format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| 5 | Administrator input wrong password format. |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |

## UAT-13: Administration accept the test of view the shopping history of all customer by name function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-13 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Administrator accept the test of view the shopping history of all customer by name function which reference to the URS-12. | | |
| **URS Includes:** | URS-12: Administrator can view the shopping history of all customer. | | |
| **Description** | This test case is a User Acceptance test for URS-12. | | |
| **Test Step** | 1. Administrator request History Page. 2. Input name of customer. 3. View the History List. 4. The system view the shopping history of all customer. | | |

Pre-data in Database: Table: History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **History ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| 1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| 2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request History page. | - |
| 2 | Administrator can view the history successful. | Name: Putsacha Owatsakul |
| 3 | Administrator input wrong format of name. | Name : AAABBBB |
| 4 | Administrator input name of customer that doesn’t existing. | Name Wuthipong Kaewboonsom |

**Unit Test of UAT-13**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request History page. | - | The system provide UI of History page. |  |
| 2 | Administrator can view the history successful. | Name: Putsacha Owatsakul | The system provide an interface for display a history detail of customer. |  |
| 3 | Administrator input wrong format of name. | Name : AAABBBB | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| 4 | Administrator input name of customer that doesn’t existing. | Name Wuthipong Kaewboonsom | The system provide an interface for display the error message as ” Invalid insertion” |  |

## UAT-14: Administration accept the test of view the shopping history of all customer by Date function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-13 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Administrator accept the test of view the shopping history of all customer by name of customer function which reference to the URS-12. | | |
| **URS Includes:** | URS-12: Administrator can view the shopping history of all customer. | | |
| **Description** | This test case is a User Acceptance test for URS-12. | | |
| **Test Step** | 1. Administrator request History Page. 2. Input date. 3. View the History List. 4. The system view the shopping history of all customer. | | |

Pre-data in Database: Table: History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **History ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| 1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| 2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request History page. | - |
| 2 | Administrator can view the history successful. | Date: 2014-01-03 |
| 3 | Administrator input wrong format of date. | date : AAABBBB |
| 4 | Administrator input date that doesn’t existing the data. | Date: 2014-03-03 |

**Unit Test of UAT-14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request History page. | - | The system provide UI of History page. |  |
| 2 | Administrator can view the history successful. | Date: 2014-01-03 | The system provide an interface for display a history detail of customer. |  |
| 3 | Administrator input wrong format of date. | date : AAABBBB | The system provide an interface for display the error message as ” The date is a wrong format” |  |
| 4 | Administrator input date that doesn’t existing the data. | Date: 2014-03-03 | The system provide an interface for display the error message as ” Invalid insertion” |  |

## UAT-15: Administration accept the test of provide detail of the product.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-15 | | |
| **Created By:** | Jakkrit Thuikham | **Last Updated By:** | Jakkrit Thuikham |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of provide detail of the product which reference to the URS-13. | | |
| **URS Includes:** | URS-13: Administrator can provide detail of the product. | | |
| **Description** | This test case is a User Acceptance test for URS-13. | | |
| **Test Step** | 1. Administrator request Product Page. 2. Administrator input Product Detail. 3. The system verify and validate the customer detail. 4. Administrator add the product detail. | | |

Pre-data in Database: Table: Product

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| 1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request Product page. |  |
| 2 | Administrator input wrong name format. |  |
| 3 | Administrator input a customer detail that existing |  |

**Unit Test of UAT-15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request Product page. | - | The system provide the UI of product page. |  |
| 2 | Administrator input a name or date to select page | Name: Putsacha Owatsakul | The system provide an interface for display a customer detail. |  |
| 3 | Administrator input a customer detail that existing |  | The system provide an interface for display a customer detail. |  |

## UAT-16: Administration accept the test of search an information of customer function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-16 | | |
| **Created By:** | Wuthipong Kaewboonsom | **Last Updated By:** | Wuthipong Kaewboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of search an information of customer function which reference to the URS-14. | | |
| **URS Includes:** | URS-14: Administrator can update all information of registration. | | |
| **Description** | This test case is a User Acceptance test for URS-14. | | |
| **Test Step** | 1. Administrator request Registration Page 2. Input name of customer 3. Select search button. 4. The system verify and validate the customer detail. 5. The system view a customer detail in registration pages. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request a Registration page. | - |
| 2 | Administrator can search an information of customer correctly. | Name: Putsacha Owatsakul |
| 3 | Administrator input a name of customer that not existing in database. | Name: Jakkrit |
| 4 | Administrator input wrong name format. | Name: AA1564 |

**Unit Test of UAT-16**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request a Registration page. | - | The system save a list of product in shopping cart. |  |
| 2 | Administrator can search an information of customer correctly. | Name: Putsacha Owatsakul | The system provide an interface for display a customer detail. |  |
| 3 | Administrator input a name of customer that not existing in database. | Name: Jakkrit | The system provide an interface for display error message “ invalid insert ” |  |
| 4 | Administrator input wrong name format. | Name: AA1564 | The system provide an interface for display the error message as ” The customer’s name is a wrong format” |  |

## UAT-17: Administration accept the test of update information of registration function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-17 | | |
| **Created By:** | Wuthipong Kaewboonsom | **Last Updated By:** | Wuthipong Kaewboonsom |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Customer accept the test of update information of registration function which reference to the URS-14. | | |
| **URS Includes:** | URS-14: Administrator can update all information of registration. | | |
| **Description** | This test case is a User Acceptance test for URS-14. | | |
| **Test Step** | 1. Administrator request Registration Page 2. Input name of customer 3. Select search button. 4. The system verify and validate the customer detail. 5. Administrator update a new student information. 6. The system verify a customer detail. 7. The system update a registration’s detail. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request a Registration page. |  |
| 2 | Administrator can update a new registration of customer correctly. |  |
| 3 | Administrator input wrong name format. |  |
| 4 | Administrator input wrong date of birth format. |  |
| 5 | Administrator input wrong email format. |  |
| 6 | Administrator input wrong telephone number format |  |
| 7 | Administrator input wrong address format. |  |
| 8 | Administrator brows wrong type of file format. |  |
| 9 | Administrator input a customer detail that existing |  |

**Unit Test of UAT-17**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | | | | | **Expected Output** | **Actual Output** |
| **username** | **password** | **name** | **birthDate** | **email** | **telephoneNumber** | **address** | **picture** |
| UT-01 | Administrator request a registration page. | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | The system shall provide UI of registration page. |  |
| UT-02 | Administrator can update a new registration of customer correctly. |  |  |  |  |  |  |  |  | The system update the information of registration into database. |  |
| UT-03 | Administrator input wrong name format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The name is a wrong format” |  |
| UT-04 | Administrator input wrong date of birth format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The date of birth is a wrong format” |  |
| UT-05 | Administrator input wrong email format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The email is a wrong format” |  |
| UT-06 | Administrator input wrong telephone number format |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The telephone number is a wrong format” |  |
| UT-07 | Administrator input wrong address format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The address is a wrong format” |  |
| UT-08 | Administrator brows wrong type of file format. |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The file browsed is invalid format” |  |
| UT-09 | Administrator input a customer detail that existing |  |  |  |  |  |  |  |  | The system provide an interface for display the error message as ” The data is already exist” |  |

## UAT-18: Administrator accept the test of Logout function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-18 | | |
| **Created By:** | Putsacha Owatsakul | **Last Updated By:** | Putsacha Owatsakul |
| **Data Crated:** | 28/02/2014 | **Last Revision Date:** | 1/03/2014 |
| **Title:** | Administrator accept the test of logout function which reference to the URS-15. | | |
| **URS Includes:** | URS-15: Administrator can Logout to the system. | | |
| **Description** | This test case is a User Acceptance test for URS-15. | | |
| **Test Step** | 1. Administrator request Home Page 2. Select the Logout button. 3. The system view Home Pages. | | |

Pre-data in Database: Table: User

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888888 | CAMT | Student\_007.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Administrator request Home Page | - |
| 2 | Administrator logout Successful. | - |

**Unit Test of UAT-18**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** | **Actual Output** |
|
| 1 | Administrator request Home Page | - | The system provide UI of Home page. |  |
| 2 | Administrator logout Successful. | - | The system provide UI of Home page. |  |

# List of Unit Testing

User Class

|  |  |
| --- | --- |
| **CLASS : UserDAOImpl** | |
| **UAT ID** | **Description** |
| UTC-01 | Test getUser() by trying to get a User information in the database |
| UTC-02 | Test findUserByName() by trying to find a User information by using name in the database |
| UTC-03 | Test findUserByUsername() by trying to find a User information by using username in the database |
| UTC-04 | Test saveUser() by trying to save a User information into the database |
| UTC-05 | Test removeUser() by trying to remove a User information from the database |
| UTC-07 |  |
| UTC-08 |  |
| UTC-09 |  |
| UTC-10 |  |
| UTC-11 |  |
| UTC-12 |  |
| UTC-13 |  |
| UTC-14 |  |
| UTC-15 |  |
| UTC-16 |  |
| UTC-17 |  |

# Test case of Unit Test (UTC)

# 1. User Class

## Class UserDAOImpl

### 1.1.1 Unit Test Case (UTC-01): getUser(): List<User>

**Description:** Test getUser() by trying to get a User information in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test get user information | - | {User1 and User2} |
| 2 | Test not get user information | - | - |

### 1.1.2 Unit Test Case (UTC-02): findUserByName(name : String): User

**Description:** Test findUserByName() by trying to find a User information by using name in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search user information with in database | Name: Putsacha Owatsakul | {User1} |
| 2 | Test search user information with not exist in database | Name: Wuthipong Kaewboonsom | Null |

### 1.1.3 Unit Test Case (UTC-03): findUserByUsername(username : String): User

**Description:** Test findUserByUsername() by trying to find a User information by using username in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search user information with in database | Username: pond | {User2} |
| 2 | Test search user information with not exist in database | Username: admin1 | Null |

### 1.1.4 Unit Test Case (UTC-04): saveUser(user : User): void

**Description:** Test saveUser() by trying to save a User information into the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test with all parameter have input the data | User3 | {User1 and User2} |
| 2 | Test with input duplicate data | User1 | Null |
| 3 | Test with empty data | New User() | Null |
| 4 | Test with null | Null | Null |

### 1.1.5 Unit Test Case (UTC-05): removeUser(user : User): boolean

**Description:** Test removeUser() by trying to remove a User information from the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test remove a user information with existing in database | User1 | True |
| 2 | Test remove a user information with not existing in database | User3 | False |

# 2. Product Class

## 2.1 Class ProductDAOImpl

# 3. Shopping Class

## 3.1 Class ShoppingDAOImpl

### 3.1.1 Unit Test Case (UTC-01): getUser(): List<User>

**Description:** Test getUser() by trying to get a User information in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test get user information | - | {User1 and User2} |
| 2 | Test not get user information | - | - |

### 3.1.2 Unit Test Case (UTC-02): findUserByName(name : String): User

**Description:** Test findUserByName() by trying to find a User information by using name in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search user information with in database | Name: Putsacha Owatsakul | {User1} |
| 2 | Test search user information with not exist in database | Name: Wuthipong Kaewboonsom | Null |

### 3.1.3 Unit Test Case (UTC-03): findUserById(username : String): User

**Description:** Test findUserById() by trying to find a Shopping cart information by using id of user

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search user information with in database | Username: pond | {User2} |
| 2 | Test search user information with not exist in database | Username: admin1 | Null |

### 3.1.4 Unit Test Case (UTC-04): saveUser(user : User): void

**Description:** Test saveUser() by trying to save a User information into the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test with all parameter have input the data | User3 | {User1 and User2} |
| 2 | Test with input duplicate data | User1 | Null |
| 3 | Test with empty data | New User() | Null |
| 4 | Test with null | Null | Null |

### 3.1.5 Unit Test Case (UTC-05): removeUser(user : User): boolean

**Description:** Test removeUser() by trying to remove a User information from the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | 1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | 2 | pond | 1234 | Jakkrit ThuiKham | 1992-02-25 | Se542115007@vr.camt.info | 088888881 | CAMT | Student\_007.jpg |

**Input Data:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **ID** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User3 | 1 | Admin1 | Admin1 | Wuthipong Kaewboonsom | 1992-06-29 | se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test remove a user information with existing in database | User1 | True |
| 2 | Test remove a user information with not existing in database | User3 | False |

# 4. History Class

## 4.1 Class HistoryDAOImpl

### Unit Test Case (UTC01):