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2. System requirement specification
3. Class Diagram
4. Sequence Diagram

# Introduction

This document is a Testing Document which including, User Acceptance Testing (UAT), Integration Testing (IT) and Unit Testing (UT).

# 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

Selenium 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 | Customer accept the test of view shopping history function | 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 | Administrator accept the test of provide detail of product function | 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 |

Input Data:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | tee | 1234 | Wuthipong Kaewboonsom | 1992-06-29 | Se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a registration page. | - |
| 2 | Customer input wrong name format. | Name: “{Empty}” |
| 3 | Customer input wrong date of birth format. | birthdate: 121415 |
| 4 | Customer input wrong email format. | Email: AABB |
| 5 | Customer input wrong telephone number format | telephoneNumber:”09876543210” |
| 6 | Customer input wrong address format. | Address: “{Empty}” |
| 7 | Customer brows wrong type of file format. | Image: Jstl-1.2.jar |
| 8 | Customer input valid information. | User2 : User |
| 9 | Customer input duplicate data as existing data. | User1 : User |

**Unit Test of UAT-01**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | | | | | **Expected 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. | admin | admin | “{Empty}” | 1992-07-24 | se542115037@vr.camt.info | 0888888888 | CAMT | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 121415 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 1992-07-24 | AABB | 088888888 | CAMT | Student\_038.jpg | The system provide an interface for display the error message as ” The email is a wrong format” |
| 5 | Customer input wrong telephone number format | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 0987654321 | CAMT | Student\_038.jpg | The system provide an interface for display the error message as ” The telephone number is a wrong format” |
| 6 | Customer input wrong address format. | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | “{Empty}” | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Jstl-1.2.jar | The system provide an interface for display the error message as ” The file browsed is invalid format” |
| 8 | Customer input valid information. | tee | 1234 | Wuthipong Kaewboonsom | 1992-06-29 | Se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg | The system add the information of registration into database. |
| 9 | Customer input duplicate data as existing data. | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg | 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 name format. | username: admin1, password: admin |
| 4 | Customer input wrong password format. | username: admin, password: admin1 |

**Unit Test of UAT-02**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | **Expected Output** |
| **Username** | **Password** |
| 1 | Customer request Home Page | - | - | The system provide UI of Home page. |
| 2 | Customer login Successful. | admin | admin | The system provide UI of Product page. |
| 4 | Customer input wrong username. | Admin1 | admin | The system provide an interface for display the error message as ” Invalid insertion” |
| 5 | Customer input wrong password. | admin | admin1 | The system provide an interface for display the error message as ” Invalid insertion” |

## 

## 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 view all the product. | - |

**Unit Test of UAT-03**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected 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 by name 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. | Name: “{Empty}” |
| 3 | Customer can search a product correctly. | Name: Channel |
| 4 | Customer input name which not exist in the database | Name : AABB |

**Unit Test of UAT-04**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** |
|
| 1 | Customer request Home Page | - | The system provide UI of Home page. |
| 2 | Customer input wrong name format. | Name: “{Empty}” | The system provide an interface for display the error message as ” The product’s name is a wrong format” |
| 3 | Customer can search a product correctly. | Name: Channel | The system provide an interface for display a product detail. |
| 4 | Customer input name which not exist in the database | Name : AABB | 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 |

Input Data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| Product2 | Coach | The luxury Handle bags for women. | 200 | Bag\_03.jpg |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request Shopping Cart Page | - |
| 2 | Customer add product with valid value. | Product2 |

**Unit Test of UAT-05**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** |
|
| 1 | Customer request Shopping Cart Page | - | The system provide UI of Shopping Cart page. |
| 2 | Customer can add product. | Product2 | The system add product detail into shopping cart. |

## 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\_01.jpg |
| 2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_02.jpg |

Input Data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| Product2 | Coach | The luxury Handle bags for women. | 200 | Bag\_03.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. | Product2: Product |
| 3 | Customer update name of product with wrong name format. | Name:”{Empty}” |
| 4 | Customer update price of product with wrong price format. | Price: AABB |
| 5 | Customer update image of product with wrong image format. | Image: Jstl-1.2.jar |
| 6 | Customer update product which existing product. | Product1 |

**Unit Test of UAT-06**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | **Expected 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. | Coach | The luxury Handle bags for women. | 200 | Bag\_03.jpg | The system update a new product detail into database. |
| 3 | Customer update name of product with wrong name format. | Coach | The luxury Handle bags for women. | 200 | Bag\_03.jpg | 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. | Coach | The luxury Handle bags for women. | AABB | Bag\_03.jpg | 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. | Coach | The luxury Handle bags for women. | 200 | Jstl-1.2.jar | 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. | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg | 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** | **Customer: name** | **Product: name** | **Product: Price** | **Date** | **amount** |
| 1 | Putsacha Owatsakul | Channel | 126 | 2014-01-03 | 1 |
| 2 | Putsacha Owatsakul | Gucci | 220 | 2014-01-03 | 2 |

Input Data:

|  |  |  |  |
| --- | --- | --- | --- |
| **Object Name** | **Product name** | **Date** | **amount** |
| ShoppingCart1 | Channel | 2014-01-03 | 1 |
| ShoppingCart2 | Prada | 2014-02-03 | 2 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request a Shopping Cart page. | - |
| 2 | Customer delete a product. | ShoppingCart2 |
| 3 | Customer delete a product with wrong amount insertion. | 10 at Shopping Cart ID |
| 4 | Customer delete a product with wrong amount format. | A |

**Unit Test of UAT-07**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | **Expected Output** |
| **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. | Prada | 2014-02-03 | 2 | The system delete a new product detail into database. |
| 3 | Customer delete a product with over amount. | Channel | 2014-01-03 | 10 | The system provide an interface for display the error message as ” Invalid insert” |
| 4 | Customer delete a product with wrong amount format. | Channel | 2014-01-03 | A | 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 |

Input Data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_01.jpg |
| Product2 | 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. | Product1 |

**Unit Test of UAT-08**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** |
|
| 1 | Customer request a Shopping Cart page. | - | The system provide UI of Shopping Cart page. |
| 2 | Customer can save a product correctly. | Product1 | 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** | **Customer: name** | **Product: name** | **Product: Price** | **Date** | **amount** |
| 1 | Putsacha Owatsakul | Channel | 126 | 2014-01-03 | 1 |
| 2 | Putsacha Owatsakul | Gucci | 220 | 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** |
|
| 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 view Shopping History function.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID:** | UAT-10 | | |
| **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 view shopping History which reference to the URS-09. | | |
| **URS Includes:** | URS-09: Customer can view the shopping History. | | |
| **Description** | This test case is a User Acceptance test for URS-10. | | |
| **Test Step** | 1. Customer request History Page 2. Input a username and password. 3. The system verify and validate the information of history by using customer name. 4. The system shows Shopping History of customer in History Pages. | | |

Pre-data in Database: Table: History

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **History ID** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| 1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| 2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

Step Flow of execute Test:

|  |  |  |
| --- | --- | --- |
| **No.** | **Description** | **Input Values** |
| 1 | Customer request History Page | - |
| 2 | Customer can view their own history pages. | Name: Putsacha Owatsakul |

**Unit Test of UAT-02**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** |
| 1 | Customer request History Page | - | The system provide UI of Home page. |
| 2 | Customer can view their own history pages. | Name: Putsacha Owatsakul | The system provide UI of history detail of customer. |
|  | Customer cannot view their own history pages. | Name: null | The system provide an interface for display the error message as ” Please Login ” |

## 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** |
|
| 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 name format. | username: admin1, password: admin |
| 4 | Administrator input wrong password format. | username: admin, password: admin1 |

**Unit Test of UAT-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | **Expected Output** |
| **Username** | **password** |
| 1 | Administrator request Home Page | - |  | The system provide UI of Home page. |
| 2 | Administrator login Successful. | admin | admin | The system provide UI of Product page. |
| 4 | Administrator input wrong username format. | admin1 | admin | The system provide an interface for display the error message as Invalid insertion” |
| 5 | Administrator input wrong password format. | admin | admin1 | The system provide an interface for display the error message as Invalid insertion” |

## 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** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| 1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| 2 | Putsacha Owatsakul | Gucci | 220 | 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** |
|
| 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-14 | | |
| **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** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| 1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| 2 | Putsacha Owatsakul | Gucci | 220 | 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** |
|
| 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 |

Input Data:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Object Name** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Coach | The luxury Handle bags for women. | 200 | Bag\_03.jpg |
| Product2 | 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 | Product1 : Product |
| 3 | Customer input wrong name format. | Name: “{Empty}” |
| 4 | Customer input wrong price format. | price: AABBB |
| 5 | Customer input wrong image file format. | Image: Jstl-1.2.jar |
| 6 | Customer input duplicate data as existing data. | Product2 : Product |

**Unit Test of UAT-15**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Input** | **Expected Output** |
|
| 1 | Customer request Product Page | - | The system provide the UI of product page. |
| 2 | Customer can add a new product successful | Product1 : Product | The system provide an interface for display a product detail. |
| 3 | Customer input wrong name format. | Name: “{Empty}” | The system provide an interface for display the error message as ” The name is wrong format” |
| 4 | Customer input wrong price format. | price: AABBB | The system provide an interface for display the error message as ” The price is wrong format” |
| 5 | Customer input wrong image file format. | Image: Jstl-1.2.jar | The system provide an interface for display the error message as ” The image is wrong format” |
| 6 | Customer input duplicate data as existing data. | Product2 : Product | The system provide an interface for display the error message as ” Invalid insertion” |

## 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** |
|
| 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 |

Input Data:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Object Name** | **Username** | **Password** | **Name** | **birthdate** | **Email** | **telephneNumber** | **Address** | **picture** |
| User1 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg |
| User2 | tee | 1234 | Wuthipong Kaewboonsom | 1992-06-29 | Se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.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. | User2 : User |
| 3 | Administrator input wrong name format. | Name: “{Empty}” |
| 4 | Administrator input wrong date of birth format. | birthdate: 121415 |
| 5 | Administrator input wrong email format. | Email: AABB |
| 6 | Administrator input wrong telephone number format | telephoneNumber:”09876543210” |
| 7 | Administrator input wrong address format. | Address: “{Empty}” |
| 8 | Administrator brows wrong type of file format. | Image: Jstl-1.2.jar |
| 9 | Administrator input a customer detail that existing | User1 : User |

**Unit Test of UAT-17**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Input** | | | | | | | | **Expected 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. | tee | 1234 | Wuthipong Kaewboonsom | 1992-06-29 | Se542115059@vr.camt.info | 088888882 | CAMT | Student\_059.jpg | The system update the information of registration into database. |
| UT-03 | Administrator input wrong name format. | admin | admin | “{Empty}” | 1992-07-24 | se542115037@vr.camt.info | 0888888888 | CAMT | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 121415 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 1992-07-24 | AABB | 088888888 | CAMT | Student\_038.jpg | 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 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 0987654321 | CAMT | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | “{Empty}” | Student\_038.jpg | 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. | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Jstl-1.2.jar | 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 | admin | admin | Putsacha Owatsakul | 1992-07-24 | se542115037@vr.camt.info | 088888888 | CAMT | Student\_038.jpg | 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** |
|
| 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 : User Class** | |
| **UTC 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 |
| **CLASS: Product** | |
| **UTC ID** | **Description** |
| UTC-06 | Test getProduct() by trying to get a Product information in the database |
| UTC-07 | Test findProductByName() by trying to find a Product information by using name in the database |
| UTC-08 | Test saveProduct() by trying to save a Product information into the database |
| UTC-09 | Test removeProduct() by trying to remove a productinformation from the database |
| **CLASS: Shopping Cart** | |
| **UTC ID** | **Description** |
| UTC-10 | Test getShoppingCart() by trying to get a ShoppingCart information in the database |
| UTC-11 | Test findShoppingCartByName() by trying to find a ShoppingCart information by using name in the database |
| UTC-12 | Test findShoppingCartByDate() by trying to find a ShoppingCart information by using name in the database |
| UTC-13 | Test saveShoppingCart () by trying to save a ShoppingCart information into the database |
| UTC-14 | Test removeShoppingCart () by trying to remove a ShoppingCart information from the database |
| **CLASS: History** | |
| **UTC ID** | **Description** |
| UTC-15 | Test getHistory() by trying to get a History information in the database |
| UTC-16 | Test findHistoryByName() by trying to find a History information by using name in the database |
| UTC-17 | Test findHistoryByDate() by trying to find a History information by using name in the database |
| UTC-18 | Test saveHistory () by trying to save a History information into the database |
| UTC-19 | Test removeHistory () by trying to remove a History information from the database |

# 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): getUserByName(name : String): User

**Description:** Test getUserByName(name: String) 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 get user information with in database | Name: Putsacha Owatsakul | {User1} |
| 2 | Test get user information with not exist in database | Name: Wuthipong Kaewboonsom | Null |

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

**Description:** Test getdUserByUsername() 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 get user information with in database | Username: pond | {User2} |
| 2 | Test get 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

### 2.1.1 Unit Test Case (UTC-06): getProduct(): List<Product>

**Description:** Test getProduct() by trying to get a Product information in the database

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| Product2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_03.jpg |

**Input Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product3 | Coach | The luxury Handle bags for women. | 128 | Bag\_04.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test get product information | - | {Product1 and Product2} |
| 2 | Test not get product information | - | - |

### 2.1.2 Unit Test Case (UTC-07): findProductByName(product : String): Product

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

**Test Data:**

**Data in Database:**

**Table: User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| product2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_03.jpg |

**Input Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product3 | Coach | The luxury Handle bags for women. | 128 | Bag\_04.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search product information with in database | Name: Channel | {Product1} |
| 2 | Test search product information with not exist in database | Name: Coach | Null |

### 2.1.3 Unit Test Case (UTC-08): saveProduct(product : Product): void

**Description:** Test saveProduct() by trying to save a Product information into the database

**Test Data:**

**Data in Database:**

**Table: Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| Product2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_03.jpg |

**Input Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product3 | Coach | The luxury Handle bags for women. | 128 | Bag\_04.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test with all parameter have input the data | Product3 | {Product1 and Product2} |
| 2 | Test with input duplicate data | Product1 | Null |
| 3 | Test with empty data | New Product() | Null |
| 4 | Test with null | Null | Null |

### 2.1.4 Unit Test Case (UTC-09): removeProduct(product : Product): boolean

**Description:** Test removeProduct() by trying to remove a Product information from the database

**Test Data:**

**Data in Database:**

**Table: Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product1 | Channel | The luxury Handle bags for women. | 126 | Bag\_02.jpg |
| Product2 | Gucci | The luxury Handle bags for women. | 220 | Bag\_03.jpg |

**Input Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Price** | **Image** |
| Product3 | Coach | The luxury Handle bags for women. | 128 | Bag\_04.jpg |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test remove a product information with existing in database | Product1 | True |
| 2 | Test remove a product information with not existing in database | Product3 | False |

# 3. Shopping Cart Class

## Class ShoppinCartDAOImpl

### 3.1.1 Unit Test Case (UTC-10): getShoppingCart(): List<ShoppingCart>

**Description:** Test getShoppingCart() by trying to get a ShoppingCart information in the database

**Test Data:**

**Data in Database:**

**Table: Shopping Cart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Object ShoppingCart Name** | **Customer: name** | **Product: name** | **Product: Price** | **Date** | **amount** |
| ShoppingCart1 | Putsacha Owatsakul | Channel | 126 | 2014-01-03 | 1 |
| ShoppingCart2 | Putsacha Owatsakul | Gucci | 220 | 2014-01-03 | 2 |

**Input Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Object ShoppingCart Name** | **Customer: name** | **Product: name** | **Product: Price** | **Date** | **amount** |
| ShoppingCart3 | Putsacha Owatsakul | Coach | 200 | 2014-02-03 | 1 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test get ShoppingCart information | - | {ShoppingCart1 and ShoppingCart2} |
| 2 | Test not get ShoppingCart information | - | - |

### 3.1.2 Unit Test Case (UTC-11): findShoppingCartByName(name : String): User

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

**Test Data:**

**Data in Database:**

**Table: Shopping Cart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **Amount** | **Date Confirm** |
| ShoppingCart1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| ShoppingCart2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| ShoppingCart3 | Wuthipong Kaewboonsom | Coach | Transfer | 1 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search ShoppingCart information with in database | Name: Putsacha Owatsakul | {ShoppingCart1} |
| 2 | Test search ShoppingCart information with not exist in database | Name: Wuthipong Kaewboonsom | Null |

### 3.1.3 Unit Test Case (UTC-12): findShoppingCartByDate(date : Date): ShoppingCart

**Description:** Test findShoppingCartByDate() by trying to find a ShoppingCart information by using date in the database

**Test Data:**

**Data in Database:**

**Table: Shopping Cart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **Amount** | **Date Confirm** |
| ShoppingCart1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| ShoppingCart2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| ShoppingCart3 | Wuthipong Kaewboonsom | Coach | Transfer | 1 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search ShoppingCart information with in database | Username: Putsacha Owatsakul | {ShoppingCart2} |
| 2 | Test search ShoppingCart information with not exist in database | Username: Wuthipong Kaewboonsom | Null |

### 3.1.4 Unit Test Case (UTC-13): saveShoppingCart(shoppingcart : ShoppingCart): void

**Description:** Test saveShoppingCart() by trying to save a ShoppingCart information into the database

**Test Data:**

**Data in Database:**

**Table: Shopping Cart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **Amount** | **Date Confirm** |
| ShoppingCart1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| ShoppingCart2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| ShoppingCart3 | Wuthipong Kaewboonsom | Coach | Transfer | 1 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test with all parameter have input the data | ShoppingCart3 | {ShoppingCart1 and ShoppingCart2} |
| 2 | Test with input duplicate data | ShoppingCart1 | Null |
| 3 | Test with empty data | NewShoppingCart() | Null |
| 4 | Test with null | Null | Null |

### 3.1.5 Unit Test Case (UTC-14): removeShoppingCart(shoppingcart : ShoppingCart): boolean

**Description:** Test removeShppingCart() by trying to remove a ShoppingCart information from the database

**Test Data:**

**Data in Database:**

**Table: Shopping Cart**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **Amount** | **Date Confirm** |
| ShoppingCart1 | Putsacha Owatsakul | Channel | Transfer | 1 | 2014-01-03 |
| ShoppingCart2 | Putsacha Owatsakul | Gucci | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Customer: name** | **Product: name** | **paymentOption** | **amount** | **Date Confirm** |
| ShoppingCart3 | Wuthipong Kaewboonsom | Coach | Transfer | 1 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test remove a ShoppingCart information with existing in database | ShoppingCart1 | True |
| 2 | Test remove a ShoppingCart information with not existing in database | ShoppingCart3 | False |

# 4. History Class

## Class HistoryDAOImpl

### 4.1.1 Unit Test Case (UTC-15): getHistory(): List<History>

**Description:** Test getHistoryt() by trying to get a History information in the database

**Test Data:**

**Data in Database:**

**Table: History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| History2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History3 | Wuthipong Kaewboonsom | Channel | 126 | Transfer | 2 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test get History information | - | {History1 and History2} |
| 2 | Test not get History information | - | - |

### 4.1.2 Unit Test Case (UTC-16): findHistoryByName(name : String): User

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

**Test Data:**

**Data in Database:**

**Table: History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| History2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History3 | Wuthipong Kaewboonsom | Channel | 126 | Transfer | 2 | 2014-01-03 |

**Test Case:**

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

### 4.1.3 Unit Test Case (UTC-17): findHistoryByDate(date : Date): History

**Description:** Test findHistoryDate() by trying to find a History information by using date in the database

**Test Data:**

**Data in Database:**

**Table: History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| History2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History3 | Wuthipong Kaewboonsom | Channel | 126 | Transfer | 2 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test search History information with in database | Username: Putsacha Owatsakul | {Historyt2} |
| 2 | Test search History information with not exist in database | Username: Wuthipong Kaewboonsom | Null |

### 4.1.4 Unit Test Case (UTC-18): saveHistory(history : History): void

**Description:** Test saveHistory() by trying to save a History information into the database

**Test Data:**

**Data in Database:**

**Table: History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| History2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History3 | Wuthipong Kaewboonsom | Channel | 126 | Transfer | 2 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test with all parameter have input the data | History 3 | { History 1 and History 2} |
| 2 | Test with input duplicate data | History1 | Null |
| 3 | Test with empty data | New History () | Null |
| 4 | Test with null | Null | Null |

### 4.1.5 Unit Test Case (UTC-19): removeHistory(history : History): boolean

**Description:** Test removeHistory() by trying to remove a History information from the database

**Test Data:**

**Data in Database:**

**Table: History**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History1 | Putsacha Owatsakul | Channel | 126 | Transfer | 1 | 2014-01-03 |
| History2 | Putsacha Owatsakul | Gucci | 220 | Credit | 2 | 2014-02-03 |

**Input Data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ObjectHistory Name** | **Customer: name** | **Product: name** | **Product: Price** | **paymentOption** | **amount** | **Date Confirm** |
| History3 | Wuthipong Kaewboonsom | Channel | 126 | Transfer | 2 | 2014-01-03 |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Result** |
| 1 | Test remove a ShoppingCart information with existing in database | History1 | True |
| 2 | Test remove a ShoppingCart information with not existing in database | History3 | False |