**Unit Test Plan**

1. **Scope of Testing**

|  |  |
| --- | --- |
| **Test Case ID** | **Test Feature** |
| UAT-TC 01 | The user can register themselves as customers. |
| UAT-TC 02 | The customer can login to the system. |
| UAT-TC 03 | The administrator can login to the system. |
| UAT-TC 04 | The administrator can add details of the products. |
| UAT-TC 05 | The customer can see their picture profile on the top-right when login. |
| UAT-TC 06 | The customer can browse product catalog. |
| UAT-TC 07 | The customer can search by product name. |
| UAT-TC 08 | The customer can add product to shopping cart. |
| UAT-TC 09 | The customer can put quantity of product to shopping cart more than one product. |
| UAT-TC 10 | The customer can see their summary of customer shopping cart that include product price and total price. |
| UAT-TC 11 | The customer can choose option of payment (money transfer, credit card and PayPal). |
| UAT-TC 12 | The customer can see their history buying transaction. |
| UAT-TC 13 | The administrator can see all of the history buying transaction. |
| UAT-TC 14 | The customer can save the shopping cart if the customer does not want to finish shopping. |
| UAT-TC 15 | The customer can logout to the system. |
| UAT-TC 16 | The administrator can logout to the system. |

1. **Unit Test List**

|  |  |
| --- | --- |
| **ID** | **Name** |
| TC-U01 | **Method** |
| TC-U02 |  |
| TC-U03 |  |
| TC-U04 |  |
| TC-U05 |  |
| TC-U06 |  |
| TC-U07 |  |
| TC-U08 |  |
| TC-U09 |  |
| TC-U10 |  |
| TC-U11 |  |
| TC-U12 |  |
| TC-U13 |  |
| TC-U14 |  |
| TC-U15 |  |
| TC-U16 |  |

TC-U01: **Method of register**

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| --- | --- |
| **Test Case ID** | TC-U01 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | MemberUser | Username | Great23 |
| Password | 12345678GG |
| Name | Petchmeesri |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U01-1 | Normal | Username | Great23 | System display successful registration page. |
| Password | 12345678GG |
| Name | Petchmeesri |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-2 | Incorrect username format | Username | $t@n34 | System display error message “The username must be only character ” |
| Password | 12345678GG |
| Name | Petchmeesri |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U01-3 | Username already exist in database | Username | Great1 | System display error message “The username is already used”. |
| Password | 12345678GG |
| Name | Petchmeesri |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-4 | Incorrect password format | Username | Great23 | System display error message “The password must be only character ” |
| Password | 551234#12d |
| Name | Petchmeesri |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-4 | Incorrect name format | Username | Great23 | System display error message “The name must be only character ”. |
| Password | 12345678GG |
| Name | wrt$5% |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-5 | Incorrect name length | Username | Great23 | System display error message “The name must be less than 25 characters ” |
| Password | 12345678GG |
| Name | Paradon ParadonParadon Paradon |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U01-6 | Incorrect address length | Username | Great23 | System display error message “The address must be only character”. |
| Password | 12345678GG |
| Name | Paradon |
| Address | He@ven $treet |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-7 | Incorrect telephone number format | Username | Great23 | System display error message “The phone number must be only number ” |
| Password | 12345678GG |
| Name | Paradon |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 053-534123 |
| Email | Great@cmu.com |
| Picture | great180\*180.jpg |
| TC-U01-8 | Incorrect email format | Username | Great23 | System display error message “The email is not correct, make sure it’s in \*\*\*\*@\*\*\*.\*\*\* format ” |
| Password | 12345678GG |
| Name | Paradon |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Greeta@hotmail |
| Picture | great180\*180.jpg |
| TC-U01-9 | Incorrect sized picture | Username | Great23 | System display error message “The picture must be more than 180\*180px” |
| Password | 12345678GG |
| Name | Paradon |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great50\*50.jpg |
| TC-U01-10 | Incorrect picture extension | Username | Great23 | System display error message “The picture must be in jpeg extension ” |
| Password | 12345678GG |
| Name | Paradon |
| Address | 123 T.SanKlang A.SanKampaeng,  Chiang Mai 50130 |
| Telephone | 0881234567 |
| Email | Great@cmu.com |
| Picture | great180\*180.png |

TC-U02: **Method of login**

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| --- | --- |
| **Test Case ID** | TC-U02 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | MemberUser | Username | Great23 |
| Password | 12345678GG |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U02-1 | Normal | Username | Great23 | System display interface menu with Great23 logged in page. |
| Password | 12345678GG |
| TC-U02-2 | Username did not match with data in database | Username | Great5 | System display error message “Incorrect username” |
| Password | 12345678GG |
| TC-U02-1 | Password did not match with the username in database | Username | Great23 | System display error message “Incorrect username or password” |
| Password | 442135FF |

TC-U03: **Method of admin login**

|  |  |
| --- | --- |
| **Test Case ID** | TC-U03 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | AdminUser | Username | AdminGreat |
| Password | Private23 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U02-1 | Normal | Username | AdminGreat | System display interface menu with AdminGreat logged in page. |
| Password | Private23 |
| TC-U02-2 | Username did not match with data in database | Username | AdGreat | System display error message “Incorrect username” |
| Password | Private23 |
| TC-U02-1 | Password did not match with data in database | Username | AdminGreat | System display error message “Incorrect username or password” |
| Password | Private33 |

TC-U04: **Method of admin add details of product**

|  |  |
| --- | --- |
| **Test Case ID** | TC-U04 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | Product | Product Name | Genie Classic Doll |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U04-1 | Normal | Product Name | Genie Classic Doll | System display new product in the product list. |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |
| TC-U04-2 | Incorrect product name format | Product Name | Genie Cla$$ic Doll | System display error message “The product name must be only characters” |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |
| TC-U04-3 | Incorrect product name length | Product Name | GenieGenieGenieGenie  GenieGenieGenieGenie  GenieGenieGenie | System display error message “The product name length should be less than 50 characters” |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |
| TC-U04-4 | Incorrect product price format | Product Name | Genie Classic Doll | System display error message “The price of product must be only double” |
| Product Price | 5.99$ |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |
| TC-U04-5 | Incorrect product description format | Product Name | Genie Classic Doll | System display error message “The description must be only characters” |
| Product Price | 5.99 |
| Product Description | Finely $crulptured do// |
| Product Picture | genie.jpg |
| TC-U04-6 | Incorrect product description length | Product Name | Genie Classic Doll | System display error message “The product description length should be less than 150 characters” |
| Product Price | 5.99 |
| Product Description | HaveMoreThan150  CharactersHaveMore  Than150Characters  HaveMoreThan150  CharactersHaveMore  Than150Characters  HaveMoreThan150  CharactersHaveMore  Than150Characters |
| Product Picture | genie.jpg |
| TC-U04-7 | Incorrect price extension | Product Name | Genie Classic Doll | System display error message “The picture must be in jpeg extension ” |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.gif |

TC-U06: **Method of customer can browse product catalog**

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| --- | --- |
| **Test Case ID** | TC-U06 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | ProductCatalog | ProductType | Doll |
| Action Figures |
| Die Cast Cars |
| Die Cast Planes |
| Plush |
| Toy Story Toys |
| Item | Genie Classic Doll |
| Iron Patriot Figure |
| Mater Die Cast Car |
| Zed Die Cast Plane |
| Stitch Plush |
| Zurg Popper Toy |
| 2 | Product | Product Name | Genie Classic Doll |
| Product Price | 5.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | genie.jpg |
| 3 | Product | Product Name | Aladdin Classic Doll |
| Product Price | 6.99 |
| Product Description | Finely sculptured doll, Part of the Disney Princess Classic Doll Collection |
| Product Picture | aladdin.jpg |
| 4 | Product | Product Name | Iron Patriot Figure |
| Product Price | 8.99 |
| Product Description | Iron Man 3 Collection Figure |
| Product Picture | ironpatriot.jpg |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U06-1 | Browse product catalog | ProductType | Doll | **Product Name:** Genie Classic Doll  **Product Price:** 5.99  **Product Description:** Finely sculptured doll, Part of the Disney Princess Classic Doll Collection  **Product Picture:** genie.jpeg  **Product Name:** Aladdin Classic Doll  **Product Price:** 6.99  **Product Description:** Finely sculptured doll, Part of the Disney Princess Classic Doll Collection  **Product Picture:** aladdin.jpg |
| Item | 1. Genie Classic Doll  2. Aladdin Classic Doll |
| TC-U06-2 | Browse product catalog | ProductType | Action Figure | **Product Name:** Iron Patriot Figure  **Product Price:** 8.99  **Product Description:** Iron Man 3 Collection Figure  **Product Picture:** ironpatriot.jpg |
| Item | 1.Iron Patriot Figure |

TC-U07: **Method of search by product name**

|  |  |
| --- | --- |
| **Test Case ID** | TC-U07 |
| **Test Case Name** | Method |
| **Test Description** | Test method “” can return the expected data |
| **Test Related Class** |  |
| **Test Date** | February 01st,2014 |
| **Test Responsibility** | Tester |
| **Test by** | Panda |
| **Test Reviewer** |  |
| **Test Prerequisite** | 1. The system should connect to the database. 2. Prepare the data (See below) into database. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Prepared Data Set** | **Table** | **Field** | **Prepare Data** |
| 1 | Product | Product Name | Genie |
| Doll |
| Aladdin Classic Doll |
| 2 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input** | | | | **Expected Result** |
| **ID** | **Case Name** | **Parameter** | **Value** | **Output** |
| TC-U07-1 | Normal |  |  |  |
|  |  |
| TC-U07-2 |  |  |  |  |
|  |  |
| TC-U07-3 |  |  |  |  |
|  |  |

1. **System Test List**

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| --- | --- |
| **ID** | **Name** |
| TC-S01 | The system provides the UI which receive the name, address, username, password, email, telephone number and upload picture for the registration. |
| TC-S02 | The system check the name format. The name format should be only character and its length is less than 25 character. |
| TC-S03 | The system check the email format. The email format should be “ xxx@xxxx.com ”. |
| TC-S04 | The system check the address format. The address format should be character and integer. |
| TC-S05 | The system check the username format. The username format should be character. |
| TC-S06 | The system check the password format. The password must be 6-20 characters. |
| TC-S07 | The system can validated whether the password in the password field and re-password field are same. |
| TC-S08 | The system can upload customer picture. The picture size should be more than 180\*180px but it has display just 160\*160px. |
| TC-S09 | The system shall add a new customer information to the database using name, surname, address, username, password and picture. |
| TC-S10 | The system shall provide the successful registration page. |
| TC-S11 | The system display the error message “The name must be only characters”. |
| TC-S12 | The system display the error message “Sorry, the email is incorrect”. |
| TC-S13 | The system display the error message “The address must be only character and integer”. |
| TC-S14 | The system display the error message “The username must be only characters”. |
| TC-S15 | The system display the error message “The password length should be 6-20 characters”. |
| TC-S16 | The system display the error message “The picture must be more than 180\*180px.” |
| TC-S17 | The system display the error message “The username is already used”. |
| TC-S18 | The system display the error message “Sorry, the password is incorrect”. |
| TC-S19 | The system provides the login UI which receive the username and password. |
| TC-S20 | The system validates the username and password. |
| TC-S21 | The system display the error message “Sorry, the username and password is not matched”. |
| TC-S22 | The system retrieves the customer information from the username. |
| TC-S23 | The system provides the UI which receive the product name, price of product, description and picture of product for provide details. |
| TC-S24 | The system shall add a new product information to the database using the product name, price of product, description and picture of product. |
| TC-S25 | The system check the product name format. The product name format should be only character and its length is less than 50 character. |
| TC-S26 | The system check the price of product format. The price of product format should be only double. |
| TC-S27 | The system check the description format. The description format should be only character and its length is less than 150 character. |
| TC-S28 | The system can upload product picture. The picture size should be more than 180\*180px but it is display just 160\*160px. |
| TC-S29 | The system display the error message “The product name must be only characters”. |
| TC-S30 | The system display the error message “The price of product must be only double”. |
| TC-S31 | The system display the error message “The description must be only characters”. |
| TC-S32 | The system display the error message “The picture must be more than 250\*250px.”. |
| TC-S33 | The system display their picture profile on the top-right after login finish. |
| TC-S34 | The system provides the UI which receive the product catalog. |
| TC-S35 | The system display the error message “Sorry, the product not found”. |
| TC-S36 | The system provides the UI which receive the product name for searching. |
| TC-S37 | The system display the error message “Sorry, the product not found”. |
| TC-S38 | The system shall provide the UI which show the list of products that customer added to the shopping cart. |
| TC-S39 | The system shall add the user selected product to the shopping cart. |
| TC-S40 | The system shall display the operation completion message “Your item has been added to the shopping cart” when the item has been added to the shopping cart successfully. |
| TC-S41 | The system shall provides the UI which show the put amount of products that customer added to the shopping cart. |
| TC-S42 | The system shall display “Please put the quantity of product to add to shopping cart again.” when the product not available to add the item to shopping cart. |
| TC-S43 | The system shall display item name of every items in the shopping cart. |
| TC-S44 | The system shall display the total number of item in the cart. |
| TC-S45 | The system shall display product price if each item in the cart. The product price shall be shown in double. |
| TC-S46 | The system shall display total price of the cart. The total price shall be shown in double. |
| TC-S47 | The system shall provide the UI which show every user purchase history. |
| TC-S48 | The system shall show details of every user transaction that has been made in administrator view. Administrator view’s details include User’s name, Cart ID, Date of purchase, Number of item, Total price, payment method, and the list of items of each cart. |
| TC-S49 | The system provides the UI which save the shopping cart. |
| TC-S50 | The system shall save the current item list in the shopping cart. |
| TC-S51 | The system shall connect and access to the database. |
| TC-S52 | The system shall display the item information of the selected product type. |
| TC-S53 | The system shall display the error message “Cannot complete the operation, Item out of stock.” When the status of the item is out of stock. |
| TC-S54 | The system provide the increment number for user id. |
| TC-S55 | The system check the telephone number format. The telephone must be only integer. |
| TC-S56 | The system provides the logout button. |
| TC-S57 | The system shall end the process of customer account. |
| TC-S58 | The system shall end the process of administrator account. |

TC-S01:

|  |  |
| --- | --- |
| **Test Case ID** |  |
| **Test Function** |  |
| **Test Description** |  |
| **Owner** |  |
| **Pre-condition** |  |
| **Testing procedure** |  |

**Input Table Data**

|  |  |
| --- | --- |
| **Input ID** | **Input Data** |
| TC-S01-1 |  |

**Expected Result Table**

|  |  |
| --- | --- |
| **Result** | |
| **Input ID** | **Expected Output** |
| TC-S01-1 |  |