**E- Shopping**

**URS 01**: The users can register themselves as member

The user has to register their information in order to use the system. The user has to provide the user’s name, address, username, password, and picture to register to the system. For the password, the user has to enter. After finish registration, the user must receive the successful registration page.

**Prerequisite**: The users have to enter to the system.

**Actors**: User’s non-member

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Name | Only alphabet is allowed. No special character can be used.  The length should not over 20 characters. | Text | “Kanokwan” |  |
| Address | The address can contain the small letter, capital letter, and number. The length unlimited characters. | Text | “House No.197 Chroenrat Road, Watgate sub-district, Mueng Chiang Mai district, Chiang Mai province, 5000, Thailand” | The address must contain are house no., road, sub-district, district, province, zip code and country. |
| Username | The username can mix the character with number. The length should not over 20 characters. | Text | “Gloyjai123” | The username must be unique and not duplicate with the exited data in the system. |
| Password | Username must be 4-  20 characters. The password must contain the small letter, capital letter and number. | Text | Gloy123 | The user must supply the password again to confirm that the user supplies the correct password. |
| Picture | The picture type of file must be JPEG image. The size of picture is unlimited. | Image File | vcm_s_kf_m160_155x160.jpg  Me.jpg |  |

**Flow of execution:**

1. The user browses for the registration page.

2. The user supplies all the information in the page.

3. The system validates the format of the input data and the existed data.

4. The system shows the successful registration page.

5. The system adds the registration result of the customer to the system.

**Alternative flow A**: The validation error

A3. If the user input data in the wrong format, the system should provide the error message as followed:

The wrong name format: The error message is “The name must be only characters”

The username length is not over 20 characters: The error message is “The username length should not over 20”

The password length is not between 4-20 characters: The error message is “The password length should be 4-20”

The wrong password format: The error message is “The password must contain the small letter, capital letter and number”

The user supplies the password in the password and the re-enter password block with the difficult password: The error message is “These passwords don’t match. Try again?”

The wrong picture format: The error message is “The picture should be JPEG image (.jpg)”

After error message, the system asks the user to read the error message and update the data.

**Alternative flow B**: The existed data validation

B3. If the username is already in the system, the system does not allow registering new customer to the system, the error message “The username is already existed” is shown.

After the error message, the system returns the user to the register page to edit the information.

**Alternative flow C**: The information is empty.

C3. If any of information form is empty, the system shows the error message “Can’t leave this empty.”

**Post condition:** The user is now in the member and can log in to the system.

**URS 02**: The customers can update their information

The customer can update their existed information in the system. The customer can edit own profile including the customer’s name, address, username, password, and picture in the system. After finish update, the customer can see their new information.

**Prerequisite**: The customers already have their account and log on to the system.

**Actors**: Customer’s member

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Name | Only alphabet is allowed. No special character can be used.  The length should not over 20 characters. | Text | “Worapan” |  |
| Address | The address can contain the small letter, capital letter, and number. The length unlimited characters. | Text | “House No.19 Chon Road, Gate sub-district, Mueng Chiang Mai district, Chiang Mai province, 52000, Thailand” | The address must contain are house no., road, sub-district, district, province, zip code and country. |
| Username | The username can mix the character with number. The length should not over 20 characters. | Text | “Baitarn99” | The username must be unique and not already existed in the system. |
| Password | Username must be 4-  20 characters. The password must contain the small letter, capital letter and number. | Text | Bt999 | The user must supply the password again to confirm that the user supplies the correct password. |
| Picture | The picture type of file must be JPEG image. The size of picture is unlimited. | Image File | vcm_s_kf_m160_155x160.jpg  Me.jpg |  |

**Flow of execution:**

1. The customer log on to the system.

2. The customer browses for the update information page.

3. The customer edit their information in the page depend on demand of customer.

4. The system validates the format of the input data and the existed data.

5. The system adds the recent data of the customer to the system.

6. The system shows the new information of customer.

**Alternative flow A**: The validation error

A4. If the customer input data in the wrong format, the system should provide the error message as followed:

The wrong name format: The error message is “The name must be only characters”

The username length is not over 20 characters: The error message is “The username length should not over 20”

The password length is not between 4-20 characters: The error message is “The password length should be 4-20”

The wrong password format: The error message is “The password must contain the small letter, capital letter and number”

The customer supplies the password in the password and the re-enter password block with the difficult password: The error message is “These passwords don’t match. Try again?”

The wrong picture format: The error message is “The picture should be JPEG image (.jpg)”

After error message, the system asks the customer to read the error message and update the data.

**Alternative flow B**: The existed data validation

B4. If the username is already in the system, the system does not allow update new information to the system, the error message “The username is already existed” is shown.

After the error message, the system returns the customer to the update information page to edit the information.

**Alternative flow C**: The information is empty.

C4. If any of information form is empty, the system shows the error message “Can’t leave this empty.”

**Post condition:** The customer can see the updated customer profile.

**URS 03**: The user can log on as a member

The registered users can log in to the system using their username and password

**Prerequisite**: The users registered as a member in the system.

**Actors**: Customer’s member

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Username | The username can mix the character with number. The length should not over 20 characters. | Text | “Baitarn99” | The username must be unique and not already existed in the system. |
| Password | Username must be 4-  20 characters. The password must contain the small letter, capital letter and number. | Text | Bt999 |  |

**Flow of execution:**

1. The user browses to the login page.

2. The user supplies the username and password.

3. The system validates the user name and password.

4. The system shows the home page.

**Alternative flow A:** The username and password is not matched.

A3. If the username and password are not matched, the system shows the error message “Incorrect username or password”

**Alternative flow B**: The username and password is empty.

B3. If the username or password is empty, the system shows the error message “Can’t leave this empty.”

**Post condition:** The user is now in the customer status and can do anything with the system.

**URS 04**: The customer can see their identity picture

The log on customer can see their identity picture on the top-right of the page.

**Prerequisite**: The users must log in as customer.

**Actors**: Customer’s member

**Input:** None

**Flow of execution**

1. The user login as customer.

2. The system shows customer’s picture on the top-right of the page which the customer has online in the system. In each page, the customer’s picture must be always shown till the customer leave from the system.

**Alternative flow A:** The picture not shown

A2. If the customer’s picture is not shown, the system shows the error picture provide from the system.

**Post condition:** The user can change their picture at the update information page.

**URS 05**: The customer can browse the catalog

The log on customer can browse the catalog page.

**Prerequisite**: The users must log in as customer.

**Actors**: Customer’s member

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Catalog Page | The catalog page is the page which shows the entire catalog in the system. | Text | “Catalog Page” | The catalog page must be select by the customer.  The condition of the page which can be input to the system each time.  The page value is Cake.com/catalog.php |

**Flow of execution**

1. The customer browses to the catalog page.

2. The system shows the entire catalog consist of any type of product.

**Alternative flow:** None

**Post condition:** The user can select each catalog to see the product inside depend on user demand.

**URS 06**: The customer can search for the product

The customer can search the product name using the related keyword to find that product.

**Prerequisite**: The customers have to enter to the system.

**Actors**: Customer

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Search keyword | The search keyword can be any character which related to the product’s keyword. The length unlimited characters. | Text | “Cheese Cake” | The search’s keyword must be match with existed product in the system. |

**Flow of execution:**

1. The customers have to enter to the system.

2. The customer supplies the keyword in the search box.

3. The system validates the keyword.

4. The system shows the result page.

**Alternative flow A:** The keyword is not matched.

A3. If the keyword is not matched, the system shows the error message “No matched product found”

**Alternative flow B**: The keyword is empty.

B3. If the keyword is empty, the system shows the error message “No keyword to find”

**Post condition:** The customer see the entire result of the product.

**URS 07**: The customer can choose the product

The customer can select the product by choosing as many products as their needs to the shopping cart.

**Prerequisite**: The customers browse to the product page.

**Actors**: Customer

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Product ID | The product id must be only a number and unique. | Int | 123 | 123 = Brownie  124 = Cheese Cake  125 = Strawberry Pie  Customer can select only the available list on the screen. |

**Flow of execution:**

1. The customers browse to the product page.

2. The customer chooses the product to the shopping cart.

3. The system adds the product which the customer selects to the database.

**Alternative flow A:** The product is unavailable.

A2. If the product is unavailable, the system shows the error message “Now is unavailable”

**Post condition:** The customer can see the entire product in their shopping cart.

**URS 08**: The customer can see the summary of shopping cart

The customer can see the summary of shopping cart which explain the selected entire product.

**Prerequisite**: The customers choose the product to the shopping cart.

**Actors**: Customer

**Input:** None

**Flow of execution:**

1. The customer browses to the summary of shopping cart.

2. The system shows the summary of shopping cart page. In each summary report, the shopping cart id, customer’s name and entire list of the products which customer selected must be shown for each summary report.

**Alternative flow A:** The shopping cart is empty.

A2. If the shopping cart is empty, the system shows the error message “No have any products in the shopping cart”

**Post condition:** The customer see the total price of the shopping cart.

**URS 09**: The customer can see the total price of shopping cart

The customer can see their total price of shopping cart which already calculate by the system. The total price is calculated by the price addition technique. The price is the value of the product. The total price calculation method is as followed:

1. Multiply price of the product with amount of product in the same rate and product type.

2. Addition price of entire product.

**Prerequisite**: The customers choose the product to the shopping cart.

**Actors**: Customer

**Input:** None

**Flow of execution:**

1. The customer browses to the summary of shopping cart.

2. The system shows the total price of shopping cart. The entire list of the product which customer selected and summary of total price are also shown in the report.

**Alternative flow A:** The shopping cart is empty.

A2. If the shopping cart is empty, the system shows the error message “No have any products in the shopping cart”

**Post condition:** The customer can payment their shopping cart.

**URS 10**: The customer can choose the payment option

The customer can choose their payment option of the shopping cart which can be money transfer, credit card and PayPal.

**Prerequisite**: The customer browses to the summary of shopping cart.

**Actors**: Customer

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Payment Option | The payment option is a condition option for the customer who wants to pay their shopping cart. | Int | 1 | 1 = Money Transfer  2 = Credit Card  3 = PayPal  Customer can select only one option on the screen. |

**Flow of execution:**

1. The customer browses to the payment option page.

2. The customer chooses the payment option.

3. The system shall connect to each payment system, which consist of bank system for money transfer, credit card and PayPal.

**Alternative flow A:** The payment option is empty.

A3. If the payment option is empty, the system shows the error message “Please choose the payment option”

**Alternative flow B:** The payment system is error.

B3. If the payment system is error, the system shows the error message “Payment system is unavailable”

**Post condition:** The customer connects with the external payment system.

**URS 11**: The customer can finish buying process

The customer can finished their buying process of the shopping cart by confirms the payment process.

**Prerequisite**: The customer choose payment option

**Actors**: Customer

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Confirm | Confirm is agreement from the customer who wants to finish their buying process. | Boolean | True | True = Finish buying process  False = Unpaid  Customer always have unpaid status till they select “True” condition to finish buying process. |

**Flow of execution:**

1. The customer browses to the payment option page.

2. The customer select confirm to finish buying process.

3. The system validates the format of the input data and the existed data.

4. The system shows the successful buying message.

5. The system adds the buying process result of the customer to the system.

**Alternative flow A:** The payment option is not match.

A3. If the payment option is not match, the system shows the error message “Payment first”

**Post condition:** The customer can see buying transaction from history.

**URS 12**: The customer can see the buying history

The customer can see their buying transaction from the shopping history in the customer’s page.

**Prerequisite**: The customer ever finished buying process at least once.

**Actors**: Customer

**Input:** None

**Flow of execution:**

1. The customer browses to the shopping history in the customer’s page.

2. The system shows the entire of shopping history which customer already finished their transaction. The customer’s name, list of each transaction, time to finished process, summary of total price are also shown in the report.

**Alternative flow A:** The customers never finish their transaction

A2. If the customers never finished transaction, the system shows the error message “Not found transaction history”

**Post condition:** The customer can log out from the system.

**URS 13**: The customer can save the shopping cart

The customer can save their shopping cart to the system when they don’t want to finish shopping process yet.

**Prerequisite**: The customer choose the product to the shopping cart

**Actors**: Customer

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Save | Save is agreement from the customer who wants to store their shopping cart to the system. | Boolean | True | True = Save shopping cart  False = Unsaved shopping cart  Shopping cart always unsaved status till the customer select “True” condition to save shopping cart. |

**Flow of execution:**

1. The customer chooses the product to the shopping cart.

2. The customer select save to store their shopping cart to the system.

3. The system validates the format of the input data and the existed data.

4. The system shows the successful saving message.

5. The system adds the shopping cart of the customer to the system.

**Alternative flow A:** The shopping cart is empty

A3. If the shopping cart is empty, the system shows the error message “Shopping cart is empty”

**Post condition:** The customer can log out from the system.

**URS 14**: The administrator can manage the product

The administrator has to provide details of the product which contain product id, product name, product description, price and picture of product. After finish manages the product, the administrator must receive the successful manage product message.

**Prerequisite**: The administrator have to login to the system.

**Actors**: Administrator

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| PID | The 6 digit number indicate the product id | Int | 123456 |  |
| Product Name | The product name length must not be longer than 40 characters. Only alphabet is allowed. No special character can be used. | Text | “Brownie” |  |
| Product Description | The product description can explain briefly about the product. The character can be the small letter, capital letter, and number. The length unlimited characters. | Text | “A chocolate brownie is a flat, [baked](http://en.wikipedia.org/wiki/Baking) square or [bar](http://en.wikipedia.org/wiki/Dessert_bar) developed in the [United States](http://en.wikipedia.org/wiki/United_States).” |  |
| Price | The value of the product. | Double | 29.00 |  |
| Picture | The picture type of file must be JPEG image. The size of picture is unlimited. | Image File | Aglayan pasta.jpg  Brownie.jpg |  |

**Flow of execution:**

1. The administrator browses for the manage product page.

2. The administrator supplies all the information in the page.

3. The system validates the format of the input data and the existed data.

4. The system shows the successful manage product.

5. The system adds the result of the product to the system.

**Alternative flow A**: The validation error

A3. If the user input data in the wrong format, the system should provide the error message as followed:

The wrong name format: The error message is “The product name must be only characters”

The product id length is unequal 6 digits: The error message is “The product id length should have 6 digits”

The wrong picture format: The error message is “The picture should be JPEG image (.jpg)”

The wrong price format: The error message is “The price must contain the double number”

After error message, the system asks the user to read the error message and update the data.

**Alternative flow B**: The existed data validation

B3. If the product id is already in the system, the system does not allow registering new product to the system, the error message “The product id is already existed” is shown.

After the error message, the system returns the user to the register page to edit the information.

**Alternative flow C**: The information is empty.

C3. If any of information form is empty, the system shows the error message “Can’t leave this empty.”

**Post condition:** The see the entire of product which they management.

**URS 15**: The administrator can see the buying history

The administrator can see all of customer’s transaction from the shopping history in each customer’s page.

**Prerequisite**: The customer ever finished buying process at least once.

**Actors**: Administrator

**Input:** None

**Flow of execution:**

1. The administrator browses to the shopping history in the customer’s page.

2. The system shows the entire of shopping history which customer already finished their transaction. The customer’s name, list of each transaction, time to finished process, summary of total price are also shown in the report.

**Alternative flow A:** The customers never finish their transaction

A2. If the customers never finished transaction, the system shows the error message “Not found transaction history”

**Post condition:** The administrator can log out from the system.

**URS 16**: The administrator can log on as an admin

The administrator can log in to the system using their username and password

**Prerequisite**: The administrator already has existed data in the system.

**Actors**: Administrator

**Input:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Type | Example | Remarks |
| Username | The username can mix the character with number. The length should not over 20 characters. | Text | “Baitarn99” | The username must be unique and not already existed in the system. |
| Password | Username must be 4-  20 characters. The password must contain the small letter, capital letter and number. | Text | Bt999 |  |

**Flow of execution:**

1. The administrator browses to the login page.

2. The administrator supplies the username and password.

3. The system validates the username and password.

4. The system shows the home page.

**Alternative flow A:** The username and password is not matched.

A3. If the username and password are not matched, the system shows the error message “Incorrect username or password”

**Alternative flow B**: The username and password is empty.

B3. If the username or password is empty, the system shows the error message “Can’t leave this empty.”

**Post condition:** The administrator is now in the admin status and can do anything with the system.