**User Requirement Specification**

**URS-01: The customer can register their information to the system**

***Description:***

The customer can register their information into the database.

***Precondition:***

The customer shall open the website and appear the index page.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Name | String | Name must be only character and its length must less than 30 character. |
| Surname | String | Surname must be only character and its length must less than 30 character. |
| Address | String | - |
| Email | String | Name must be only character and its length must less than 30 character. |
| Username | String | Username must be at least 4 characters. |
| Password | String | Password length should be 4-20 character. |
| Picture | BLOB | Picture format must be only .jpg, .jpeg, and .png. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page on the customer.

3). The customer clicks on “register” menu at the index page.

4). The system shall provide the register page on the customer.

5). The customer type their information consist of name, surname, address, email, picture, username and password.

6) The system validates the format of the input data.

7). The customer clicks on “Submit” button on the register page to confirm the registration.

***Alternative flow:***

6a) If the user input data in the wrong format, the system should provide the error message as followed:

The wrong name format: “The name must be only characters” and “The name length must less than 30 characters”

The wrong surname format: “The surname must be only characters” and “The surname length must less than 30 characters”

The wrong username format: “The username must be at least 4 characters”

The wrong password format: “The password length should be 4-20 character” and “The password must contain the small letter, capital letter, and number.

The wrong picture format: “The picture must be the picture format”

***Output:***

The customers’ information is added into the users’ database.

***System Requirement Specification:***

SRS-01: The system shall provide the registration interface, which receives the name, surname, address, username, password, and picture for register to the system.

SRS-02: The system shall add customer information to the database using name, surname, address, username, password, and picture.

SRS-03: The system shall provide the successful registration page.

SRS-09: The system can check the name format. The name format should be only character.

SRS-10: The system can check the surname format. The surname format should be only character.

SRS-11: The system can check the username format. The username format should be at least 4 characters.

SRS-12: The system can check the password format. The password format must be 4-20 characters. The password must contain small letter, capital letter, and number.

SRS-13: The system can check the picture format. The picture format must be only .jpg, .jpeg, and .png.

SRS-14: The system shall display the error message. “The name must be only characters”

SRS-15: The system shall display the error message. “The surname must be only characters”

SRS-16: The system shall display the error message. “The name length must less than 30 characters”

SRS-17: The system shall display the error message. “The surname length must less than 30 characters”

SRS-18: The system shall display the error message. “The username must be at least 4 characters”

SRS-19: The system shall display the error message. “The password length should be 4-20 character”

SRS-20: The system shall display the error message. “The password must contain the small letter, capital letter, and number.

SRS-23: The system shall display the error message. “The picture must be the picture format”

**URS-02: The customer can login to the system.**

***Description:***

The customer can use their username and password in order to access to the system.

***Precondition:***

The customers have to register with their information already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Username | String | Username must be at least 4 characters. |
| Password | String | Password length should be 4-20 character. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer clicks on “Login” menu on the index page.

4). The system shall provide the login page to the customer.

5). The customer type username and password in the login page.

6). The customer clicks on “Login” button to submit.

7). The system validates the user name and password.

8). The system shall redirect to the index page.

***Alternative flow:***

7a) If the username or password are not matched, the system shows the error message “The username is incorrect” and “The password is incorrect”.

***Output:***

The customer view their picture at the top-right on the index page to confirm that customer has login already.

***System Requirement Specification:***

SRS-06: The system shall provide the login user interface, which receives the username and password.

SRS-07: The system shall provide the successful login page.

SRS-08: The system shall validate the username and password.

SRS-21: The system shall display the error message. “The username is incorrect”

SRS-22: The system shall display the error message. “The password is incorrect”

**URS-03: The customer can update their account information.**

***Description:***

The customer can edit their information and change the picture on the edit account page.

***Precondition:***

The customers have to register and login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Name | String | Name must be only character and its length must less than 30 character. |
| Surname | String | Surname must be only character and its length must less than 30 character. |
| Address | String | - |
| Email | String | Name must be only character and its length must less than 30 character. |
| Username | String | Username must be at least 4 characters. |
| Password | String | Password length should be 4-20 character. |
| Picture | BLOB | Picture format must be only .jpg, .jpeg, and .png. |

***Execution flow:***

1). The customer type the website URL.

2). The customer login successful.

3). The system shall redirect to the index page to the customer.

4). The customer clicks on “My account” menu on the index page.

5). The system shall provide the customers’ information on the account page.

6). The customer clicks on “Edit account” button on the account page.

7). The system shall provide the edit account page to the customer.

8). The customer edit their information consist of name, surname, address, email, picture, username and password.

9) The system validates the format of the input data.

***Alternative flow:***

9a) If the user input data in the wrong format, the system should provide the error message as followed:

The wrong name format: “The name must be only characters” and “The name length must less than 30 characters”

The wrong surname format: “The surname must be only characters” and “The surname length must less than 30 characters”

The wrong username format: “The username must be at least 4 characters”

The wrong password format: “The password length should be 4-20 character” and “The password must contain the small letter, capital letter, and number.

The wrong picture format: “The picture must be the picture format”

***Output:***

The system shall update the customers’ account into the database.

***System Requirement Specification***

SRS-09: The system can check the name format. The name format should be only character.

SRS-10: The system can check the surname format. The surname format should be only character.

SRS-11: The system can check the username format. The username format should be at least 4 characters.

SRS-12: The system can check the password format. The password format must be 4-20 characters. The password must contain small letter, capital letter, and number.

SRS-13: The system can check the picture format. The picture format must be only .jpg, .jpeg, and .png.

SRS-14: The system shall display the error message. “The name must be only characters”

SRS-15: The system shall display the error message. “The surname must be only characters”

SRS-16: The system shall display the error message. “The name length must less than 30 characters”

SRS-17: The system shall display the error message. “The surname length must less than 30 characters”

SRS-18: The system shall display the error message. “The username must be at least 4 characters”

SRS-19: The system shall display the error message. “The password length should be 4-20 character”

SRS-20: The system shall display the error message. “The password must contain the small letter, capital letter, and number.

SRS-23: The system shall display the error message. “The picture must be the picture format”

SRS-24: The system shall provide the Edit customer information interface for edit their own information after customer has been logged in to the system.

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-51: The system shall update information of customer to database.

**URS-04: The customer can search for the product name.**

***Description:***

The customer can search the product from search box on the website.

***Precondition:***

The customers have to register and login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Product name | String | Product name must be at least 1 character. |

***Execution flow:***

1). The customer type the website URL.

2). The customer login successful.

3). The system shall redirect to the index page to the customer.

4). The customer types a product name in search box at the top-right on the index page.

5). The customer clicks on “Search” button to search the products result.

***Alternative flow:***

4a) If the search empty, the system will shows no product.

***Output:***

The customers view the products’ information follow the products name that customer want to search on the product page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-27: The system shall provide the search box for search the product name.

SRS-28: The system shall display the result of search the product name.

SRS-49: The system shall retrieve the product information from the product name.

**URS-05: The customer can browse the product from products catalogs.**

***Description:***

The customer can select the product from products catalogs on the index page.

***Precondition:***

The customers have to register and login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| catalogs | button | Click left on button |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product from product catalogs.

6). The system shall add the products’ information in the shopping carts’ database.

7). The system shall provide the product description page to the customer.

***Alternative flow:***

5a) If the administrator don’t provide the product, In product catalogs don’t have the product.

***Output:***

The system shall display the product name, picture, and price in the product catalogs.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-26: The system shall display the product catalogs.

**URS-06: The customer can add the productsto cart.**

***Description:***

The customer can select a product and add to cart.

***Precondition:***

The customers have to register and login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Add to cart | button | Click left on button. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product.

6). The system shall provide the product description to customer.

7). The customer clicks on “Add to cart” button to submit the product.

***Alternative flow:***

5a) If the administrator don’t provide the product, the customer can’t selects a product.

***Output:***

The customer can view the product list on the shopping cart page.

***System Requirement Specification:***

SRS-04: The system shall provide the user interface, which receives the name of product, description, and picture of product.

SRS-05: The system shall add the product information to the database using name, description, and picture of product

SRS-13: The system can check the picture format. The picture format must be only .jpg, .jpeg, and .png.

SRS-23: The system shall display the error message. “ The picture must be the picture format”

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-31: The system shall provide the shopping cart interface.

SRS-36: The system shall provide the user interface for confirm of buying.

**URS-07: The customer can identify amount of the product at least one.**

***Description:***

The customer can select the amount of each product in the product description page.

***Precondition:***

The customers have to register and login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Amount | int | Amount number must be at least 1. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product.

6). The system shall provide the product description page to the customer.

7). The customer identifies the amount of products.

8). The customer clicks on “Add to cart” to confirm the amount.

***Alternative flow:***

5a) If the administrator don’t provide the product, the customer can’t selects a product.

7a) If the product not enough for amount that customer need, the customer can’t add the product to cart.

***Output:***

The customer views correctly amount of each product on the shopping cart page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-31: The system shall provide the shopping cart interface.

SRS-35: The system shall provide the user interface for receive amount of product.

SRS-36: The system shall provide the user interface for confirm of buying.

**URS-08: The customer can view the customers’ shopping cart.**

***Description:***

The customer can view their customers’ s shopping cart, which is consist of product name, product description, amount and price.

***Precondition:***

The customers have to select the product to the cart.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Amount | int | Amount number must be at least 1. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product from product catalogs.

6). The system shall provide the product description page to the customer.

7). The customer identifies the amount of products.

8). The customer clicks on “Add to cart” to confirm the amount.

9). The system shall redirect to the shopping cart page to the customer.

***Alternative flow:***

5a) If the administrator don’t provide the product, the customer can’t selects a product.

8a) If the product not enough for amount that customer need, the customer can’t add the product to cart.

***Output:***

The customer views their shopping cart list on the shopping cart page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-31: The system shall provide the shopping cart interface.

SRS-35: The system shall provide the user interface for receive amount of product.

SRS-36: The system shall provide the user interface for confirm of buying.

**URS-09: The customer can save the shopping cart.**

***Description:***

After the customer logout from the website. The customer can continue their shopping when they login again.

***Precondition:***

The customer must have at least one product in their shopping cart list.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| save | button | Click left on button |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall set the session from customers’ id in each login process.

5). The system shall redirect to the index page to the customer.

***Output:***

The customer can continue shopping with the old shopping list when they login again.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user SRS-43: The system shall display the date that customer buy product.

SRS-44: The system shall provide the user interface for save the shopping cart.

SRS-45: The system shall save shopping cart history.

SRS-46: The system shall display the successful shopping cart history interface.

SRS-48: The system shall add history of customer to database using username, name of product, picture of product, amount of product, total price, payment option, and date.

SRS-49: The system shall retrieve the product information from the product name.

**URS-10: The customer can remove the product from shopping cart.**

***Description:***

The customer can remove a product from shopping cart list in the shopping cart page.

The customer must have at least one product in their shopping cart list.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Product name | box | Click left on product box that the customer want to remove. |
| remove | button | Click left on button |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product from product catalogs.

6). The system shall provide the product description page to the customer.

7). The customer identifies the amount of products.

8). The customer clicks on “Add to cart” to confirm the amount.

9). The system shall redirect to the shopping cart page to the customer

10). The customer selects the product that they want to remove from shopping cart list.

11). The customer clicks on “Remove from list” button to remove the products.

12). The system shall redirect to shopping cart page to the customer.

***Alternative flow:***

10a) If the shopping cart don’t have the product, the customer can't remove the product in the shopping cart.

***Output:***

The product that customer select to remove from list was deleted from shopping cart list in the shopping cart page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-32: The system shall remove the selected product from the shopping cart database.

SRS-52: The system shall provide the user interface for remove the shopping cart.

**URS-11: The customer can select payment option.**

***Description:***

The customer can select payment option after they want to check out the product from the shopping cart page.

***Precondition:***

The customer must select the product and add a product to cart at least 1 items.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Payment | String | Payment must be only character format. |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product from product catalogs.

6). The system shall provide the product description page to the customer.

7). The customer identifies the amount of products.

8). The customer clicks on “Add to cart” to confirm the amount.

9). The customer selects the payment option.

10). The system shall provide the shopping cart page to the customer.

***Alternative flow:***

9a) If the shopping cart don’t have product, the customer can’t selects the payment option.

***Output:***

The customer views the payment option of each purchase in their history page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-33: The system shall provide the payment user interface, which receive the payment option (money transfer, credit cart and PayPal) that the customer wants to use.

SRS-34: The system shall display the payment option that the customer wants to use.

**URS-12: The customer can checkout the products.**

***Description:***

The customer can check out the product after they add a product to cart finish.

***Precondition:***

The customer must have at least one product in their shopping cart list.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Check out | button | Click left on button |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer selects a product from product catalogs.

6). The system shall provide the product description page to the customer.

7). The customer identifies the amount of products.

8). The customer clicks on “Add to cart” to confirm the amount.

9). The system shall provide the checkout page to the customer.

10). The customer selects the payment option.

11). The customer clicks on “Check out” button to submit the purchase.

12). The system shall redirect to the history page.

***Alternative flow:***

11a) If the customer don’t selects the payment option, the customer can’t click on “Check out” to submit the purchase.

***Output:***

The customer views their purchase that consists of product name, product description, amount, total price and payment option in the history page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-29: The system shall provide the Checkout interface consists of the product name, picture, amount, total price, and payment option.

SRS-30: The system shall display the Checkout interface that contains product name, total price, and payment option for the customer.

SRS-31: The system shall provide the shopping cart interface.

SRS-35: The system shall provide the user interface for receive amount of product.

SRS-36: The system shall provide the user interface for confirm of buying.

SRS-37: The system shall provide the shopping history page.

SRS-38: The system shall display the name of product in shopping cart.

SRS-39: The system shall display the picture of product in shopping cart.

SRS-40: The system shall display the amount of product in shopping cart.

SRS-41: The system shall display the total price in shopping cart.

**URS-13: The customer can view the shopping history.**

***Description:***

After the customer purchase a product, they can view their shopping history in the history page.

***Precondition:***

The customer must purchase a product at least one items.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| History | menu | Click left on tab menu |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer clicks on “History” menu on the index page.

6). The system shall provide the history page to the customer.

***Alternative flow:***

6a) If the customer never buy the product, the system will show no history.

***Output:***

The customer views their shopping history that consists of product name, product description, amount, total price and payment option.

***System Requirement Specification:***

SRS-37: The system shall provide the shopping history page.

SRS-47: The system shall retrieve shopping history from database when customer login and continue shopping.

**URS-14: The customer can logout from the system.**

***Introduction:***

The customer can logout from the website when they finish the purchase.

***Precondition:***

The customers have to login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Logout | button | Click left on button |

***Execution flow:***

1). The customer type the website URL.

2). The system shall provide the index page to the customer.

3). The customer login successful.

4). The system shall redirect to the index page to the customer.

5). The customer clicks on “Logout” menu on the index page.

6). The system shall provide the alert message in order to confirm the customer.

7). The customer clicks on “Submit” button on alert message to confirm.

8). The system shall delete the customers’ session from site.

***Alternative flow:***

5a) If the customer don’t login, the customer can’t logout to system.

7a) If the customer click on “Cancel” button on alert message, the system will redirect to the index page to the customer.

***Output:***

The pictures’ customers do not appear on the top-right in the index page and show the login menu in order to login again.

***System Requirement Specification:***

SRS-50: The system shall provide the logout interface.

**URS-15: The administrator can login to the system.**

***Description:***

The administrator can login in order to manage the website.

***Precondition:***

The administrator must have their account in the database.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Username | String | Username must be at least 4 characters. |
| Password | String | Password length should be 4-20 character. |

***Execution flow:***

1). The administrator type the website URL.

2). The system shall provide the index page to the administrator.

3). The administrator clicks on “Login” menu on the index page.

4). The system shall provide the login page to the administrator.

5). The administrator type username and password in the login page.

6). The administrator clicks on “Login” button to submit.

7). The system validates the user name and password.

8). The system shall redirect to the admin index page.

***Alternative flow:***

7a) If the username or password are not matched, the system shows the error message “The username is incorrect” and “The password is incorrect”.

***Output:***

The administrator views their picture at the top-right on the index page to confirm that administrator has login already.

***System Requirement Specification:***

SRS-06: The system shall provide the login user interface, which receives the username and password.

SRS-07: The system shall provide the successful login page.

SRS-08: The system shall validate the username and password.

SRS-11: The system can check the username format. The username format should be at least 4 characters.

SRS-12: The system can check the password format. The password format must be 4-20 characters. The password must contain small letter, capital letter, and number.

SRS-21: The system shall display the error message. “The username is incorrect”

SRS-22: The system shall display the error message. “The password is incorrect”

**URS-16: The administrator can provide details of the products.**

***Description:***

The administrator can add the product and provide products’ description into the database.

***Precondition:***

The administrators have to login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| Name | String | Name must be only a character. |
| Description | String | Description must be only a character |
| Price | double | Price must be Thai Bath only. |
| Picture | BLOB | Picture format must be only .jpg, .jpeg, and .png. |

***Execution flow:***

1). The administrator type the website URL.

2). The system shall provide the index page to the administrator.

3). The customer login successful.

4). The system shall redirect to the admin index page.

5). The administrator clicks on “Add product” button to provide the product.

6). The system shall provide the add product page to the administrator.

7). The administrator types the products’ information that consists of name, description, price and picture.

8). The administrator clicks on “Submit” to confirm the product.

9). The system shall redirect to the product page to the administrator.

***Alternative flow:***

7a) If the administration input data incomplete, the system will show message “Input the data”.

***Output:***

The new product appears on the product page after administrator added a product.

***System Requirement Specification:***

SRS-04: The system shall provide the user interface, which receives the name of product, description, and picture of product.

SRS-05: The system shall add the product information to the database using name, description, and picture of product.

**URS-17: The administrator can see the shopping history of all customers.**

***Description:***

The administrator can view the all customers’ history in the history page.

***Precondition:***

In the history database must contain at least one customers’ history.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| History | menu | Click left on button |

***Execution flow:***

1). The administrator type the website URL.

2). The system shall provide the index page to the administrator.

3). The customer login successful.

4). The system shall redirect to the admin index page.

5). The administrator clicks on “History” menu in the admin index page.

***Output:***

The all of customers’ history appear on the history page.

***System Requirement Specification:***

SRS-25: The system shall display the picture of customer on top-right of the user interface.

SRS-42: The system shall provide the shopping history of all customers page.

SRS-43: The system shall display the date that customer buy product.

**URS-18: The administrator can logout from the system.**

***Description:***

The administrator can logout from the website when they finish managing website.

***Precondition:***

The administrators have to login already.

***Input:***

|  |  |  |
| --- | --- | --- |
| ***Name*** | ***Type*** | ***Remarks*** |
| logout | button | Click left on button |

***Execution flow:***

1). The administrator type the website URL.

2). The system shall provide the index page to the administrator.

3). The customer login successful.

4). The system shall redirect to the admin index page.

5). The administrator clicks on “Logout” menu in the index page.

6). The system shall provide the alert message to the administrator.

7). The administrator clicks on “Submit” button on the alert message to confirm.

8). The system shall delete the administrators’ session from site.

***Alternative flow:***

6a) If the customer don’t login, the customer can’t logout to system.

8a) If the customer click on “Cancel” button on alert message, the system will redirect to the index page to the customer.

***Output:***

The pictures’ administrators do not appear on the top-right in the index page and show the login menu in order to login again.

***System Requirement Specification:***

SRS-50: The system shall provide the logout interface.