**e-shopping**

Software Construction, Testing and Maintenance

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**User Requirement Specification**

Customer

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| **No.** | **Requirement List** |
| URS 01 | The customer can login to the system by using username and password. |
| URS 03 | The customer can register to the system by provide the name, address, picture, username, and password. |
| URS 04 | The customer can update their information. |
| URS 05 | The customer can log out from the system. |
| URS 08 | The customer can browse the catalog. |
| URS 09 | The customer can search for the product name. |
| URS 10 | The customer can choose the product to shopping cart as many products as he/she wants. |
| URS 11 | The customer can see the summary of his/her shopping cart. |
| URS 12 | The customer can check out the shopping cart. |
| URS 13 | The customer can view his/her history of shopping cart consists of cart ID, total price, checkout status, and date. |

Administrator

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| **No.** | **Requirement List** |
| URS 06 | The administrator can add product and provide details of the product which contain product name, product description, and picture of product. |
| URS 07 | The administrator can see the shopping history of all customers in his/her page. |
| URS 02 | The administrator can login to the system by using username and password. |

**System Requirement Specification**

URS 01: The customer can login to the system by using username and password.

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| **No.** | **Requirement List** |
| SRS 01 | The system provides the UI which receive the username and password to login. |
| SRS 02 | The system validates the username and password. |
| SRS 03 | The system display error message “Incorrect username or password”. |
| SRS 04 | The system shows an error message “Can’t leave this empty.” |

URS 02: The administrator can login to the system by using username and password.

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| **No.** | **Requirement List** |
| SRS 05 | The system provides the UI which receive the admin name and password to login. |
| SRS 06 | The system validates the admin name and password. |
| SRS 03 | The system display error message “Incorrect username or password”. |
| SRS 04 | The system shows an error message “Can’t leave this empty.” |

URS 03: The customer can register to the system by provide the name, address, picture, username, and password.

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| **No.** | **Requirement List** |
| SRS 07 | The system provides the UI which receive the name, address, picture, username, and password for the registration. |
| SRS 08 | The system can check the length of username format which contain only characters has the maximum length is twenty. |
| SRS 09 | The system can check the username format; the username format must be a unique username. |
| SRS 10 | The system can check the length of the password format, the maximum length of password must be 4-20 letters. |
| SRS 11 | The system shall retrieve the existing customer information to the data from username. |
| SRS 12 | The system shall provide the successful registration page. |
| SRS 13 | The system shall display error message is “This username is already exist”. |
| SRS 14 | The system shall display error message is “Password length should be 4-20 letters” |
| SRS 15 | The system shall display error message is “The name must be only characters” |
| SRS 16 | The system shall display error message is “The username length should not over 20” |
| SRS 17 | The system shall display error message is “These passwords doesn’t match. Try again” |
| SRS 18 | The system shall display error message is “The picture should be JPEG image (.jpg)” |
| SRS 04 | The system shows an error message “Can’t leave this empty.” |

URS 04: The customer can update their information.

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| **No.** | **Requirement List** |
| SRS 19 | The system provides the UI which receive the name, address, picture, and password to edit the information. |
| SRS 10 | The system can check the length of the password format, the maximum length of password must be 4-20 letters. |
| SRS 11 | The system shall retrieve the existing customer information to the data from username. |
| SRS 12 | The system shall provide the successful registration page. |
| SRS 13 | The system shall display error message is “This username is already exist”. |
| SRS 14 | The system shall display error message is “Password length should be 4-20 letters” |
| SRS 14 | The system shall display error message is “Password length should be 4-20 letters” |
| SRS 15 | The system shall display error message is “The name must be only characters” |
| SRS 16 | The system shall display error message is “The username length should not over 20” |
| SRS 17 | The system shall display error message is “These passwords doesn’t match. Try again” |
| SRS 18 | The system shall display error message is “The picture should be JPEG image (.jpg)” |
| SRS 04 | The system shows an error message “Can’t leave this empty.” |

URS 05: The customer can log out from the system.

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| **No.** | **Requirement List** |
| SRS 20 | The system provides the logout button after login at every page. |
| SRS 21 | The system should clear user’s session. |

URS 06: The administrator can add product and provide details of the product which contain product name, product description, and picture of product.

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| **No.** | **Requirement List** |
| SRS 22 | The system shall add the product information which administrator provide into database. |
| SRS 15 | The system shall display error message is “The product name must be only characters” |
| SRS 23 | The system shall display error message is “The product id length should have 6 digits” |
| SRS 18 | The system shall display error message is “The picture should be JPEG image (.jpg)” |

URS 07: The administrator can see the shopping history of all customers in his/her page.

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| **No.** | **Requirement List** |
| SRS 24 | The system shall query the all customer’s shopping history from database. |
| SRS 25 | The system shall display all customer’s shopping history. |

URS 08: The customer can browse the catalog.

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| **No.** | **Requirement List** |
| SRS 26 | The system provides the catalog UI to display catalogs. |
| SRS 27 | The system shall query the product list from database. |

URS 09: The customer can search for the product name.

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| **No.** | **Requirement List** |
| SRS 28 | The system provides the search box in every page. |
| SRS 29 | The system provides the UI for showing the list of searched product. |
| SRS 30 | The system shall match the search’s keywords with product’s keywords. |
| SRS 31 | The system shall display error message “No matched product found”. |

URS 10: The customer can choose the product to shopping cart as many products as he/she wants.

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| **No.** | **Requirement List** |
| SRS 32 | The system provides the UI to show the product name, picture, and price. |
| SRS 33 | The system can add product which customer select to the cart into database. |
| SRS 34 | The system shows the error message “This product is now unavailable” |

URS 11: The customer can see the summary of his/her shopping cart.

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| **No.** | **Requirement List** |
| SRS 35 | The system shall display the list of product which customer chooses. |
| SRS 36 | The system shall query the product that customer chooses from database. |
| SRS 37 | The system shall calculate the total price of all products in shopping cart. |
| SRS 38 | The system shall display the total price of all product that customer choose. |

URS 12: The customer can check out the shopping cart.

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| **No.** | **Requirement List** |
| SRS 39 | The system shall provide the payment option UI for customer to select. |
| SRS 40 | The system shall provide the buying history UI for customer to fill. |
| SRS 41 | The system shall connect to the each payment system, which consist of bank system for money transfer, credit card and PayPal. |
| SRS 42 | The system shall saving check out status to the database. |
| SRS 43 | The system shall saving payment option to the database. |
| SRS 44 | The system shall saving buying history to the database. |

URS 13: The customer can view his/her history of shopping cart consists of cart ID, total price, checkout status, and date.

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| **No.** | **Requirement List** |
| SRS 45 | The system shall query the customer’s shopping history from database. |
| SRS 46 | The system shall display customer’s shopping history. |

**Database**

**Product**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PID | Name | Description | Price | Picture | keyword | amount |

**Cart**

|  |  |  |  |
| --- | --- | --- | --- |
| cartID | PID | amount | price |

**Invoice**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| invoiceID | username | cartID | TotalPrice | invoiceDate |

**Customer**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Username | Name | Address | Picture | password | cartID |

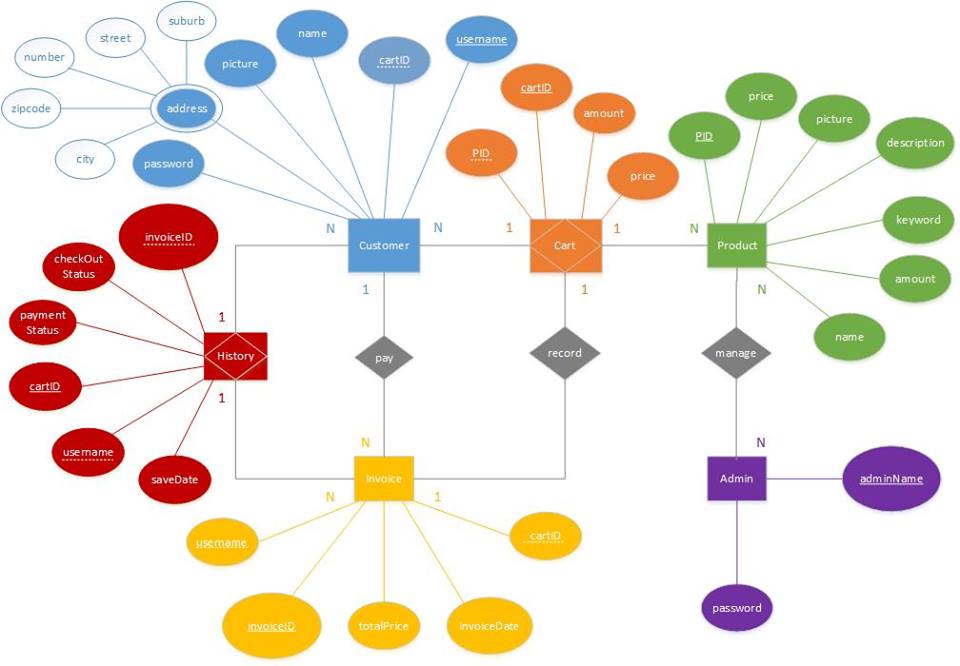
**History**

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| --- | --- | --- | --- | --- | --- |
| cartID | username | checkOutStatus | saveDate | paymentStatus | invoiceID |

**Administrator**

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| --- | --- |
| AdminName | Password |

**ER Diagram**

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