**Written use cases**

1. **Login**

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| --- | --- |
| **Use Case** | Login |
| **Description** | A user logging in to the system |
| **Actor(s)** | User |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The users goes to login page. 2. The user enters username/ email and password value in corresponding fields. 3. The user clicks on login button. 4. If credential is correct, then user/admin successfully login to the system. | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Authentication fail | 1. User enter invalid username or password.  2. System displays information with appropriate message to correct invalid username or password. |
| **Pre-conditions** | |
| The user is not logged in the system (guest). | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and user is returned to the homepage as a logged in user. |
| Failure | The user is unable to log in for one or more reasons and an error is prompted. |
| **Extension Points** | |
| None. | |

1. **Logout**

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| --- | --- |
| **Use Case** | Logout |
| **Description** | A user logging out to the system |
| **Actor(s)** | User |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user chooses to sign-out.  2. The system removes the current authentication token of the user.  3. The system logging out the user. | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| The user is logged in the system. | |
| **Post-conditions** | |
| The user return to homepage as guest. | |
| **Extension Points** | |
| None. | |

1. **Sign Up**

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| --- | --- |
| **Use Case** | Sign Up |
| **Description** | A user creates an account |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. Customer goes to registration page or select registration option while try to login the system 2. The system prompts user for registration information: username, password, etc 3. The customer enters their information. 4. The system validates user information. 5. The system creates a new user base on entered information 6. The system saves the new user to database. | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Invalid Information Entered | 1. User enter invalid information  2. System displays information with appropriate message to correct invalid username or password. |
| **Pre-conditions** | |
| The user is not logged in the system (guest). | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and user is returned to the homepage. |
| Failure | The user is unable to log in for one or more reasons and an error is prompted. |
| **Extension Points** | |
| None. | |

1. **Display Products**

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| --- | --- |
| **Use Case** | Display Products |
| **Description** | A user displays all available computers of the system |
| **Actor(s)** | User |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to display products page.  2. The system get all products in database as a list.  3. The system displays all products in the list for the user | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| None. | |
| **Post-conditions** | |
| A page lists all products in database is displayed for the user. | |
| **Extension Points** | |
| None. | |

1. **Display Product Detail**

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| --- | --- |
| **Use Case** | Display Product Detail |
| **Description** | A user displays all product information of the system |
| **Actor(s)** | User |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to display product detail page.  2. The user click on Detail displayed on the image of product.  3. The system retrieves data and displays detailed information about that product | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| None. | |
| **Post-conditions** | |
| A page lists all product detail in database is displayed for the user. | |
| **Extension Points** | |
| None. | |

1. **Display Purchase Order**

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| --- | --- |
| **Use Case** | Display Purchase Order |
| **Description** | Admin displays all orders that have been ordered of the customer |
| **Actor(s)** | Admin |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to display purchase order page.  2. The system get all orders in database as a list.  3. The system displays orders that have been ordered in the list of users | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| None. | |
| **Post-conditions** | |
| A page lists all orders in database is displayed for the user. | |
| **Extension Points** | |
| None. | |

1. **Display Selected Product**

|  |  |
| --- | --- |
| **Use Case** | Display Selected Product |
| **Description** | Customer displays a list of the products they have selected |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | | |
| 1. The user goes to display selected products page.  2. The system get all selected products in database as a list.  3. The system displays all the list of items that the user has selected | | |
| **Alternative Flows** | | |
| None. | | |
| **Pre-conditions** | | |
| None. | | |
| **Post-conditions** | | |
| A page lists all selected products in database is displayed for the user. | | |
| **Extension Points** | | |
| Choose Product. | | |

1. **Display Order Status**

|  |  |
| --- | --- |
| **Use Case** | Display Order Status |
| **Description** | Customer displays all status of order |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to display order status page.  2. The system get all status of orders in database as a list.  3. The system displays all order status in the list for the user | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| None. | |
| **Post-conditions** | |
| A page lists all order status in database is displayed for the user. | |
| **Extension Points** | |
| None. | |

1. **Choose Product**

|  |  |
| --- | --- |
| **Use Case** | Choose Product |
| **Description** | A customer chooses products based on search and/or filtering options |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to home page.  2. The system get all products in database as a list.  3. The user select one or more products.  4. The system displays all selected products in the list for the user | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| The user is in display products page. | |
| **Post-conditions** | |
| A page lists all selected products in database is displayed for the user. | |
| **Extension Points** | |
| None. | |

1. **Cancel Selected Product**

|  |  |
| --- | --- |
| **Use Case** | Cancel Selected Product |
| **Description** | A customer cancel product that they have selected |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to Cart.  2. The system get all selected products in database as a list.  3. The user click Cancel in the selected product list for the user  4. The system delete that items in the List of selected products | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| The user is logged in and the products have been selected. | |
| **Post-conditions** | |
| The system displays the list of selected products again after cancelling. | |
| **Extension Points** | |
| None. | |

1. **Order Product**

|  |  |
| --- | --- |
| **Use Case** | Order Product |
| **Description** | A customer order product(s) online through the system |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user adds products to order items list (cart).  2. The user goes to order products page.  3. The user enters their information.  4. The system validates information saves the ordered information to database. | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Invalid Information Entered | 1. User enter invalid information.  2. System displays information with appropriate message to correct invalid information. |
| **Pre-conditions** | |
| The user is in display products page. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | The user receives the ordered item. |
| Failure | The user is unable to orders for one or more reasons and is returned to display products page. |
| **Extension Points** | |
| None. | |

1. **Cancel Order**

|  |  |
| --- | --- |
| **Use Case** | Cancel Order |
| **Description** | A customer cancel order that they have order |
| **Actor(s)** | Customer |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to cancel order page.  2. The system get all orders in database as a list.  3. The user click Cancel in the order list for the user  4. The system returns to the order status view interface | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| The user is logged in and the selected products have been ordered. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | A page lists cancelled orders in database is displayed for the user. |
| Failure | The user is unable to cancel order when order status switch to Cooking mode |
| **Extension Points** | |
| None. | |

1. **Add Product**

|  |  |
| --- | --- |
| **Use Case** | Add Product |
| **Description** | Admin adds new product(s) to the database |
| **Actor(s)** | Admin |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to add products page.  2. The user enters information for a new product  3. The user submits information.  4. The system verifies information, and save the new product with specified information to database | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Invalid Information Entered | 1. User enter invalid information.  2. System displays information with appropriate message to correct invalid information. |
| **Pre-conditions** | |
| The user is logged in. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and the product with specified information is added to database. |
| Failure | The user is unable to add new product to database for one or more reasons and an error is prompt. |
| **Extension Points** | |
| None. | |

1. **Delete Product**

|  |  |
| --- | --- |
| **Use Case** | Delete Product |
| **Description** | Admin delete product(s) from the database |
| **Actor(s)** | Admin |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to delete product page.  2. The user selects product(s) to be deleted.  3. The system delete the selected product(s) from database. | |
| **Alternative Flows** | |
| None. | |
| **Pre-conditions** | |
| The user is logged in. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and the selected product(s) is deleted from database. |
| Failure | The user is unable to delete existing product(s) in database for one or more reasons and an error is prompt. |
| **Extension Points** | |
| None. | |

1. **Edit Product**

|  |  |
| --- | --- |
| **Use Case** | Edit Product |
| **Description** | Admin edits existing product(s) to the database |
| **Actor(s)** | Admin |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to edit products page.  2. The user updates information for an existing computer.  3. The user submits information.  4. The system verifies information, and save the product with specified information to database | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Invalid Information Entered | 1. User enter invalid information.  2. System displays information with appropriate message to correct invalid information. |
| **Pre-conditions** | |
| The user is logged in. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and the product with updated information is saved to database |
| Failure | The user is unable to update information of existing product in database for one or more reasons and an error is prompt. |
| **Extension Points** | |
| None. | |

1. **Edit Order Status**

|  |  |
| --- | --- |
| **Use Case** | Edit Order Status |
| **Description** | Admin changes the status of orders that have been ordered |
| **Actor(s)** | Admin |
| **Flows of Events** |  |
| **Basic Flow** | |
| 1. The user goes to edit order status page.  2. The user updates status for an order.  3. The user submits information.  4. The system verifies information, and save order status with specified information to database | |
| **Alternative Flows** | |
| **Title** | **Description** |
| Invalid Information Entered | 1. User enter invalid information.  2. System displays information with appropriate message to correct invalid information. |
| **Pre-conditions** | |
| The user is logged in. | |
| **Post-conditions** | |
| **Title** | **Description** |
| Success | Success message is prompted and the order with updated status is saved to database |
| Failure | The user is unable to update status of order in database for one or more reasons and an error is prompt. |
| **Extension Points** | |
| Cancel Order. | |