dbromle2

250892366

**Key Questions**

1. Entry conditions:

The Customer registers/logs into iCLOTHING

Exit conditions:

The Customer successfully places an order and gets their purchased items shipped to them

1. Functional requirements describe the functionality of the system (eg connectivity to other systems, user i/o), whereas nonfunctional requirements describe parts of the system that do not directly affect the functionality (eg usability, reliability, support)
2. iCLOTHING Functional Requirements:

* iCLOTHING is a website which allows customers to browse, shop online, and make purchases
* There is a filter feature which allows customer to see product carried by iCLOTHING by department (mens, womens, children), clothing type (shirts, pants, jackets, etc), sub-categories (t-shirt, dress shirt, etc) or brand (D&G, Gucci, etc)
* Customer will be able to create an account with a username and password
* Customers can browse the catalogue without creating an account but they cannot place orders or leave reviews or comments without logging in.
* Customer can add/remove items to their shopping cart
* Website will process orders and payment before delivering the order to the admin for verification
* Website admin can update the catalogue with new products and search filters
* Admin is notified by email when an item goes out of stock, and the item’s ad is updated with an”out of stock” notice

1. iCLOTHING Non-functional Requirements:

* Online store will be able to ship a customer’s order from the warehouse to their front door
* The website’s security features will have user authentication and password encryption using SHA-2 hashing algorithms

**Activities**

1. last item in stock purchased

|  |  |
| --- | --- |
| Use case name | BuysLastItem |
| Participating actor | Initiated by Customer  Communicated with Administrator |
| Entry condition | The item the customer buys is the last one in stock in the warehouse |
| Flow of events | -The customer buys an item online that the warehouse only has 1 in stock  -The system responds by sending an email to the administrator notifying them t that the product is out of stock |
| Exit condition | The customer receives an order confirmation notice from the administrator |
| Quality requirements | N/A |

2. email no internet connection

|  |  |
| --- | --- |
| Use case name | SendEmailNoInternet |
| Participating actor | Initiated by Customer  Communicated with Administrator |
| Entry condition | The Administrator sends the Customer an order confirmation email but the internet is down |
| Flow of events | -The Customer places an order and the Administrator is sent a copy of the order for confirmation  -The internet connection drops  -The Administrator sends an order confirmation email to send to the customer  -The email application saves the email information and queues it to be sent when the internet connection resumes  -The internet connection resumes  -The administrator’s email app sends the customer the queued email |
| Exit condition | The Administrator sends the customer an email |
| Quality requirements | The email application should save unsent emails and automatically try to send them periodically (normal email function) |

A close up of a map

Description automatically generated

**Problems**

1. Authenticate User

|  |  |
| --- | --- |
| Use case name | AuthenticateUser |
| Participating actor | Initiated by Customer |
| Entry condition | The Customer inputs their login info to the account fields |
| Flow of events | -The Customer inputs their account username and password to the appropriate fields  -The website verifies the customer’s login information using SHA-2 encryption algorithms |
| Exit condition | -The Customer’s inputs are rejected  -The Customer’s inputs are accepted |
| Quality requirements | Must be using SHA-2 encryption algorithms |

2. Buy Item

|  |  |
| --- | --- |
| Use case name | BuyItem |
| Participating actor | Initiated by Customer  Communicated with Administrator |
| Entry condition | The Customer clicks on the “check out” button when viewing their cart |
| Flow of events | -The Customer inputs all their order information (billing address, shipping address, payment info  -The Administrator receives an order confirmation email  -The Customer’s payment is approved  -The Administrator approves of the order and sends an order confirmation to tttthe Customer  -The Administrator notifies the warehouse of the new order |
| Exit condition | -The Administrator approves of the order and sends an order confirmation email to the customer |
| Quality requirements | The order confirmation from the administrator informs the warehouse of an new order to pick & pack |

3. Manage Shopping Cart

|  |  |
| --- | --- |
| Use case name | ManageShoppingCart |
| Participating actor | Initiated by Customer |
| Entry condition | -The Customer makes some change to their shopping cart |
| Flow of events | -The Customer adds a new item to their shopping cart  OR  -The Customer removes an item from their shopping cart  OR  -The Customer updates a quantity of an item in their shopping cart |
| Exit condition | -Customer clicks “check out” button  -Customer clicks some other link to take them away from the View My Cart webpage |
| Quality requirements | The Customer’s cart state is saved while the customer is browsing other pages of the website |

4. Maintain Product Catalogue

|  |  |
| --- | --- |
| Use case name | MaintainProductCatalogue |
| Participating actor | Initiated by Administrator |
| Entry condition | Administrator logs into back system |
| Flow of events | -Administrator logs into back system and selects “view product catalogue button”  -Administrator clicks “add new item” button  -Administrator fills out all applicable information fields  -Administrator clicks “save” button  -Item gets added to product catalogue  -Administrator clicks on existing item  -Administrator clicks “archive product” button  -Product gets archived and the website updates to no longer advertise it  -Administrator clicks on existing item  -Administrator clicks “update item” button  -Administrator changes information in the applicable information fields  -Administrator clicks “save” button  -Item gets updated and website is updated to reflect these changes  -Administrator does something  -Administrator clicks “cancel” button  -Administrator’s work is not saved, website is not updated |
| Exit condition | Administrator saves their edits and logs out of the back system |
| Quality requirements | -Website should update regularly when the Administrator maintains product catalogue to reflect the changes the Administrator makes |