CPE311

OBJECT-ORIENTED SOFTWARE ANALYSIS & DESIGN

Project:

The Online Shopping System

(Use case diagram & Description)

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Description

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| Number: | 1 |
| Name: | Login |
| Summary: | Enable the administrator and customer to enter the system and perform the operations allowed for each of them |
| Preconditions: | Enter correct password and username |
| Postconditions: | The ability to use the allowed operations for each of them |
| Primary Actor(s): | Administrator |
| Secondary Actor(s): | Customer |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System asks the administrator or the customer to enter there user name and password |
|  | 2 | User name and password entered |
|  | 3 | System displays “Hi, ‘Name’ Welcome” |
| **Extensions** | **Step** | **Branching Action** |
|  | 2a | System displays **“Error, you have enter the wrong use name or password ,please try again”** message  if username and password entered incorrectly |
|  | 2b | System displays **“You are now blocked for five minuets ”** message if password is entered incorrectly 3 times in a row |
|  | 3a | System returns to main menu |

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| Number: | 2 |
| Name: | Add |
| Summary: | Enables the administrator to add customers and products |
| Preconditions: | Administrator has logged into the system |
| Postconditions: | Successfully complete the addition process and sending a notification |
| Primary Actor(s): | Administrator |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System displays all add options available |
|  | 2 | System asks to choose one add option |
|  | 3 | Administrator chooses one add operation (add customers or add products) |
|  | 4 | System asks for number of products to be added if administrator choosed add products |
|  | 5 | Administrator enters number of products to be added |
|  | 6 | System asks for products or customers to be added |
|  | 7 | Administrator chooses products or customers to be added |
|  | 8 | System displays **“Items have been added successfully “** message |
| **Extensions** | **Step** | **Branching Action** |
|  | 8a | System returns to main menu |
|  | 5a | System throughs error message if administrator did not enter a valid number for products to be added(negative number) |

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| Number: | 3 |
| Name: | Delete |
| Summary: | Enables the administrator to delete customers and products from the system |
| Preconditions: | Administrator has logged into the system |
| Postconditions: | Successfully completing the deletion process and sending a notification |
| Primary Actor(s): | Administrator |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System displays all delete options available |
|  | 2 | System asks to choose one delete option |
|  | 3 | Administrator chooses one delete operation (delete customers or delete products) |
|  | 4 | System asks for products or customers to be deleted |
|  | 5 | Administrator chooses products or customers to be deleted |
|  | 6 | System displays “Items have been deleted successfully “ message |
| **Extensions** | **Step** | **Branching Action** |
|  | 6a | System displays **“No items to be deleted!”** message if there is no products or customers to be deleted |
|  | 5a | System returns to main menu |

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| Number: | 4 |
| Name: | Search Product Based on ID |
| Summary: | Enables the administrator to search for any product inside the system by entering its serial number |
| Preconditions: | Administrator has logged into the system and Enter a ID number |
| Postconditions: | The success of the process of searching for any product according to its ID and sending a notification |
| Primary Actor(s): | Administrator |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System asks the administrator for product ID |
|  | 2 | Administrator enters product ID |
|  | 3 | System displays the product searched for(if exists) |
| **Extensions** | **Step** | **Branching Action** |
|  | 1a | System displays **“Product does not exist try another ID!”** message |
|  | 2b | System throughs error message if administrator entered invalid ID(negative number) |
|  | 3a | System returns to main menu |

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| Number: | 5 |
| Name: | View |
| Summary: | Enables the administrator to view all of customers , products and orders |
| Preconditions: | Administrator has logged into the system |
| Postconditions: | View all of the customers and the products inside the system , in addition to the existing orders |
| Primary Actor(s): | Administrator |
| Secondary Actor(s): | None |

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| Main Scenario | Step | Action |
|  | 1 | System displays all view options available |
|  | 2 | System asks to choose one view option |
|  | 3 | Administrator chooses one view operation (all users, all products, all orders related and orders between two dates) |
|  | 4 | -If administrator chooses all users:  Systems displays all users in the system -If administrator chooses all products: Systems displays all products currently in the system  -If administrator chooses all orders related: Systems displays all orders related to a specific customer  -If administrator chooses orders between two dates: Systems displays orders that happened in an interval of time |
| **Extensions** | **Step** | **Branching Action** |
|  | 4a | System displays **“No items to be viewed!”** message if there are no items currently in the system |
|  | 4b | System returns to main menu |

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| Number: | 6 |
| Name: | View All Products |
| Summary: | View all products that can be bought from the system |
| Preconditions: | Customer has logged into the system |
| Postconditions: | System displays all products the customer can buy from |
| Primary Actor(s): | Customer |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System displays all products available for purchase to the customer |
| **Extensions** | **Step** | **Branching Action** |
|  | 1a | System offers coming soon option for products to be soon added to the store |
|  | 1b | Systems offers customer suggested products based on his preference |
|  | 1c | System offers sorting option(low price-high price, A-Z) |
|  | 1d | System returns to main menu |

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| Number: | 7 |
| Name: | Search Product based on Category |
| Summary: | Find the product by its category |
| Preconditions: | Customer has logged into the system and Enter a category that is in the system |
| Postconditions: | The search process succeeded |
| Primary Actor(s): | Customer |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System ask customer to enter a category |
|  | 2 | Customer enters category |
|  | 3 | System displays all products related to the entered category (If exists) |
| **Extensions** | **Step** | **Branching Action** |
|  | 2a | System displays **“No category with the entered name”** message if customer enters invalid category name |
|  | 2b | System offers sorting option(low price-high price, A-Z) |
|  | 3a | System returns to main menu |

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| Number: | 8 |
| Name: | Make orders& Money payment |
| Summary: | Enable the customer to order products from the system |
| Preconditions: | Customer has logged into the system |
| Postconditions: | System processes the order and subtract money from credit |
| Primary Actor(s): | Customer |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | Customer views products and selects on or more to buy |
|  | 2 | Customer adds the products to cart add presses the order  button |
|  | 3 | Systems displays**” Are you sure and with to procced “** message |
|  | 4 | Customer clicks OK |
|  | 5 | System makes a transaction and subtracts product price from customer’s credit |
|  | 6 | System displays **“Order have been added successfully!”** message |
| **Extensions** | **Step** | **Branching Action** |
|  | 5a | System displays **“No sufficient fund available in credit please add more!”** message if customer does not have sufficient fund |
|  | 6a | System gives the customer a tacking ID to know where is the order currently |
|  | 6b | System offers promotional coupons for certain customers |
|  | 6c | System returns to main menu |

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| Number: | 9 |
| Name: | Add Cash Credit |
| Summary: | Add money to the wallet |
| Preconditions: | Customer has logged into the system and Determine the amount of money to be added |
| Postconditions: | Successfully complete the addition process |
| Primary Actor(s): | Customer |
| Secondary Actor(s): | None |

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| **Main** **Scenario** | **Step** | **Action** |
|  | 1 | System asks customer to enter money amount to be added |
|  | 2 | Customer enters money amount |
|  | 3 | Systems processes the operation and adds the funds to customer’s credit |
|  | 4 | Systems displays **“Funds added successfully!”** message |
| **Extensions** | **Step** | **Branching Action** |
|  | 4a | System returns to main menu option |

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