 Object Orientated

Programming

**Final Term Project Detailed Requirements**

|  |  |
| --- | --- |
| Registration Number | 2020-CS-134 |
| Student Name | Zain Hassan |
| Project Name | Rubrics Based Evaluation |
| Project Description | In this Project we will manage the Fast Food And Ice-Cream Shop.  **Admin:**  This program is used by admin for managing Stores, product and for creating order and for Paying bills. There is no need to maintain the record manually. It can maintain the record of Product, Store, Categories, and etc. so that it will be easy to access any time 24\*7. This project will perform all the CRUD operations like Add, Delete, Update and Read functions. With this system the tasks would be performed in less amount of time and more efficiently.  In which at first there will be login for the admin. Admin can login to his account by adding valid Id and Password. Admin will be able to see the feedback enter by customer. Admin will be able to leave the section by logging out using the password set for him.  The admin can add, delete, edit the order on the demand of customer.  **Customer:**  Customer will login the customer section to buy the different products. Customer can view all the products entered by the admin. He can get discount offer if he will buy things greater than Rs1500. Discount will be 20 percent of the total bill. The customer can choose the food he want to eat and can replace the item with other. Customer can cancel the order and give a new one.  After login there will be a menu bar in which two types of menu will be displayed:   * **Fast Food** * **Ice Cream**   Admin will select the category after taking order from the customer.  Further, there will be sub-categories in each of the menu. In Fast Food there will be sub-categories:   * **Shawarma** * **Burgers** * **Pizza**   And in Ice Cream there will be sub-category of:   * **Cup Ice Cream** * **Cone** * **Family Pack** * **Kulfi** * **Stick Ice Cream**   Prices of each food will be applied when the customer will order the specific items. There will be a special discount on the order over Rs 1500. There will be specific service charges in the bill of each customer. Drinks will also be available on the customer’s demand. **Fast Food** will contain Burger (Egg, Chicken, Zinger), Shawarma (Chicken, Zinger), Pizza (Chicken Tikka, Malai Boti, Veg, Pepperoni, BBQ, Hawaiian). Desi Food will contain Malai Boti, Karahi, Mutton, Beef, Biryani etc.  Ice Cream will be available in Mango, Banana, Blueberry, Kulfa, Vanilla and Chocolate flavours.  There will be three types of services:   * **Dine In** * **Take Away** * **Home Delivery**   Menu displayed will contain all types of fast food and ice creams. Customer can choose the food he / she wants to order the items will display on the screen with the specified price and the bill will pop out. After ordering the food he wants to pay the bill, he will press the specific number and then the bill receipt will be shown to him and then he will be asked to give the amount on the bill.   * In this project the admin can add, delete and update the menu in menu bar. He can add more item on the customer reviews. On the other hand, the customer can add, delete items in his/her order.   **Detail:**  At first there will be a login page admin and customer both can login at that page. After logging in as admin, admin can add, delete and update items in the menu. He/ She can view the feedback given by the customers. And logging in as customer, customer can view menu, buy products, pay bill ang give the feedback. Customer can also give suggestions to admin on the feedback. |
| Actors of the System | * Admin * Customer |

**Use Case # 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add item in Menu | | |
| Primary Actor | Admin | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Name | TextBox | nameValid(string Name); |
| Price | TextBox | priceValid(int price); |
|  |  |  |
|  |  |  |  |
| How To Access the use case | Top Menu > Admin>Add item in Menu | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Use Case # 2**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete item from Menu | | |
| Primary Actor | Admin | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Name | TextBox | nameValid(string Name); |
| How To Access the use case | Top Menu > Admin> Delete item from Menu | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Use Case # 3**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Update item in Menu | | |
| Primary Actor | Admin | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Name | TextBox | nameValid(string Name); |
| New Name | TextBox | nameValid(string Name); |
| Price | TextBox | priceValid(int price); |
|  | New Price | TextBox | priceValid(int price); |
| How To Access the use case | Top Menu > Admin> Update item in Menu | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Use Case # 4**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Add item in Order | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Name | TextBox | nameValid(string Name); |
| Number of Items | Drop Down Box | numberValid(int num); |
|  |  |  |
| How To Access the use case | Top Menu > Customer> Add item in Order | | |
| On Success Return to Screen | List of Order | | |
| Screen Design |  | | |

**Use Case # 5**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete item from Order | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Name | TextBox | nameValid(string Name); |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Customer> Delete item from Order | | |
| On Success Return to Screen | List of Order | | |
| Screen Design |  | | |

**Use Case # 6**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | View Menu | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Category | DropDown Box | catValid(string Cat); |
| Item Sub-Category | DropDown Box | catValid(string Cat); |
|  |  |  |
| How To Access the use case | Top Menu > Customer> View Menu | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Use Case # 7**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Buy Products | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Item Category | ComboBox | catValid(string Cat); |
| Item Sub-Category | ComboBox | catValid(string Cat); |
| Item Number | ComboBox | numberValid(int num); |
| How To Access the use case | Top Menu > Customer> Buy Products | | |
| On Success Return to Screen | List of Order | | |
| Screen Design |  | | |

**Use Case # 8**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Pay Bill | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Bill | TextBox | numberValid(int num); |
|  |  |  |
|  |  |  |
| How To Access the use case | Top Menu > Customer> Pay Bill | | |
| On Success Return to Screen | List of Bill | | |
| Screen Design |  | | |

**Use Case # 9**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Login as Admin | | |
| Primary Actor | Admin | | |
| List of Fields on screen | Field Name | Component | Validation |
| Email | TextBox | emailValid(String email); |
| Password | TextBox | passValid(String a, int b); |
|  |  |  |
| How To Access the use case | Top Menu > Login as Admin | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Use Case # 10**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Login as Customer | | |
| Primary Actor | Customer | | |
| List of Fields on screen | Field Name | Component | Validation |
| Email | TextBox | emailValid(String email); |
| Password | TextBox | passValid(String a, int b); |
|  |  |  |
| How To Access the use case | Top Menu > Login as Customer | | |
| On Success Return to Screen | List of Menu | | |
| Screen Design |  | | |

**Format of Data in Files**

|  |  |
| --- | --- |
| **File Name** | Bill.txt |
| **Type** | Text File |
| **Data format** | Customer Name, Products Bought, Products Price, Bill |

|  |  |
| --- | --- |
| **File Name** | Order.txt |
| **Type** | Text File |
| **Data format** | Customer Name, Order Items |

|  |  |
| --- | --- |
| **File Name** | Feedback.txt |
| **Type** | Text File |
| **Data format** | Customer Name, Feedback |

|  |  |
| --- | --- |
| **File Name** | Menu.txt |
| **Type** | Text File |
| **Data format** | Menu |

|  |  |
| --- | --- |
| **File Name** | File.txt |
| **Type** | Text File |
| **Data format** | Order.txt  Bill.txt  Menu.txt  Feedback.txt |

***Vocabulary***

***Noun:***

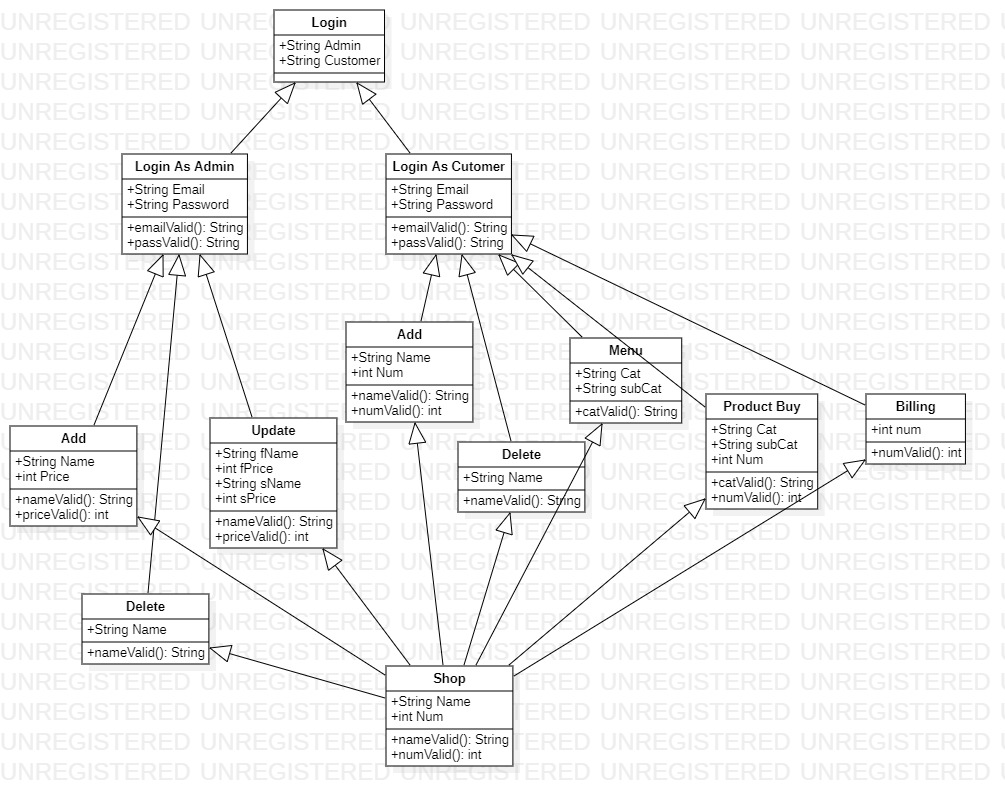
By doing case study, the nouns found are:

* Admin
* Customer
* Mutton
* Beef
* Chicken

***Verbs:***

* ***Product***
* ***Store***
* ***Category***
* ***Discount***

***CLASS DIAGRAM:***

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