**Programming Fundamentals**

Fall 2020

**Project Details**

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| ***Project*** |  |
| Project Title | Online Shopping and Warehouse Management |
| Registration Number | 2020-Cs-144 |
| Summary | *There will be three main/basic users for the software: An Admin, employee and a buyer. Admin will just be able to edit employees, their ID's and passwords and view a balance sheet of the company. The employee will be able to manage all incoming and outgoing goods. Employee can add list of items and their buying cost and price, view all the buyers/users with their orders that they placed. The buyer will register him/herself first where they will be prompted to add their username and password, address and a telephone number. All these inputs will be checked with validation functions. Buyer can see all the goods, their availability that whether that good is in stock or not, and the price of the product. Buyer can also add listed products in cart and checkout at the end where buyer can see total price for the products, he/she is going to buy.* |
| Features | *At the starting of the software, it will be prompted whether it is being accessed by admin or buyer. buyers and register themselves and then proceed to their shopping. Admin can view total purchase and sale in a form of balance sheet which will be printed in a form of excel file where total profit will be also displayed. All buyer data will also be available in a text file. Details of goods in the warehouse, availability of every item in the inventory will be accessible to employees which is also stored in an excel sheet. the program also sorts which item have a higher demand. buyers have an option whether to view items by category, price and most selling items. This program also alerts employee that an item is about to finish, or it is out of stock, so you need to order more.* |
| ***Details of Interfaces*** |  |
| ***Main Menu Details*** | |
| Option 1 | 1. *Company* 2. *Buyer* |
| Purpose | *Option 1 will allow user to enter the software, whether he/she is an admin, employee of the company or just a common buy, who is using the software for online shopping.* |
| Input/ Output | *Press 1 for Admin access*  *Press 2 for Employee access*  *Press 3 to exit program*  *Enter option number: ½*  ***Submenu 1:***  *Press 1 to add employee details*  *Press 2 to update employee details*  *Press 3 to delete employee details*  *Press 4 to print balance sheet.*  *Press 5 to logout of the system*  *Press 6 to exit program*  *Enter option number:*  ***Submenu 2:***  *Press 1 to add item*  *Press 2 to update item*  *Press 3 to delete item*  *Press 4 to view all items with stock availability*  *Press 5 to view all items with barcode*  *Press 6 to search an item according to name*  *Press 7 to search an item according to barcode*  *Press 6 to logout of the system*  *Press 7 to exit program*  *Enter option number:*  ***Login screen for admin:***  *Enter Email ID:*  *Enter Password:*  ***Login screen for employee:***  *Enter Username:*  *Enter Password:* |
| Validation | *Email IDs for company access will be validated. Upon wrong input, software will prompt the user to enter the details again or exit the program by pressing -1. Passwords will be choice of the user whatever he/she sets.*  *For employee, a unique ID will be validated, every employee has a 6-digit ID, and first 2 digits will be ‘88’ which is our warehouse number. When the employee is adding item, a unique barcode will also be validated according to the product. It will consist of product initials and 6-digit code* |
| Screenshot |  |
|  | |
| Option 2 | *Press 1 Buyer/Purchaser access.* |
| Purpose | *Buyer can view and purchase products.* |
| Input/ Output | ***Login screen for user:***  *Enter Email ID:*  *Enter Password:*  *Press 1 to search and buy a product*  *Press 2 to buy product from the list*  *Press 3 to view all product with their price*  *Press 4 to view cart and check out*  *Press 5 to logout of the system*  *Press 6 to exit program* |
| Validation | *Email address and password will be validated for the user.* |
| Screenshot |  |
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**Note:**

* Add the details of all options of the main menu in the same format described above.
* In case of sub, menus, add the menu in the same format as the main menu.
* In case of the login screen etc., explain it after all menus, in the same format as the menu option.