



EAST WEST UNIVERSITY

Department of computer science and engineering

Project Title: Online Shop Management Software.

Group ID: 03

Name:

Department: Department of computer science and engineering

University Name: East West University

Country: Bangladesh

Session: Spring

Date: 22

Month: May

Year: 2021

Submitted By

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2016-3-60-026

Tanvir Hasan
2017-1-60-102

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2020-1-60-092

Submitted To

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**CSE103 – Structured Programming
Project Declaration**

(Student1)

Student ID	2016-3-60-026
Name	Shamimatul Jannat
Session	Spring 2021
Project No.	9
Date submitted	22 May, 2021
Deadline of the project	23 May, 2021
My contribution in doing this project (in percentage) in the group	33.33%
Description of my contribution in this project in the group	1. Designed the flow chart 2. Contributed on a portion of admin part
Number of hours I spent in doing this project	15 Hours

(Student 2)

Student ID	2017-1-60-102
Name	Tanvir Hasan
Session	Spring 2021
Project No.	9
Date submitted	22 May, 2021
Deadline of the project	23 May, 2021
My contribution in doing this project (in percentage) in the group	33.33%
Description of my contribution in this project in the group	1. Contributed on customer part 2. Introduction, as well as merge the project report
Number of hours I spent in doing this project	20 Hours

(Student 3)

Student ID	2020-1-60-092
Name	Hasnain Ahmed
Session	Spring 2021
Project No.	9
Date submitted	22 May, 2021
Deadline of the project	23 May, 2021
My contribution in doing this project (in percentage) in the group	33.33%
Description of my contribution in this project in the group	1. Contributed on a rest of the admin part 2. Limitation of the project
Number of hours I spent in doing this project	13 Hours

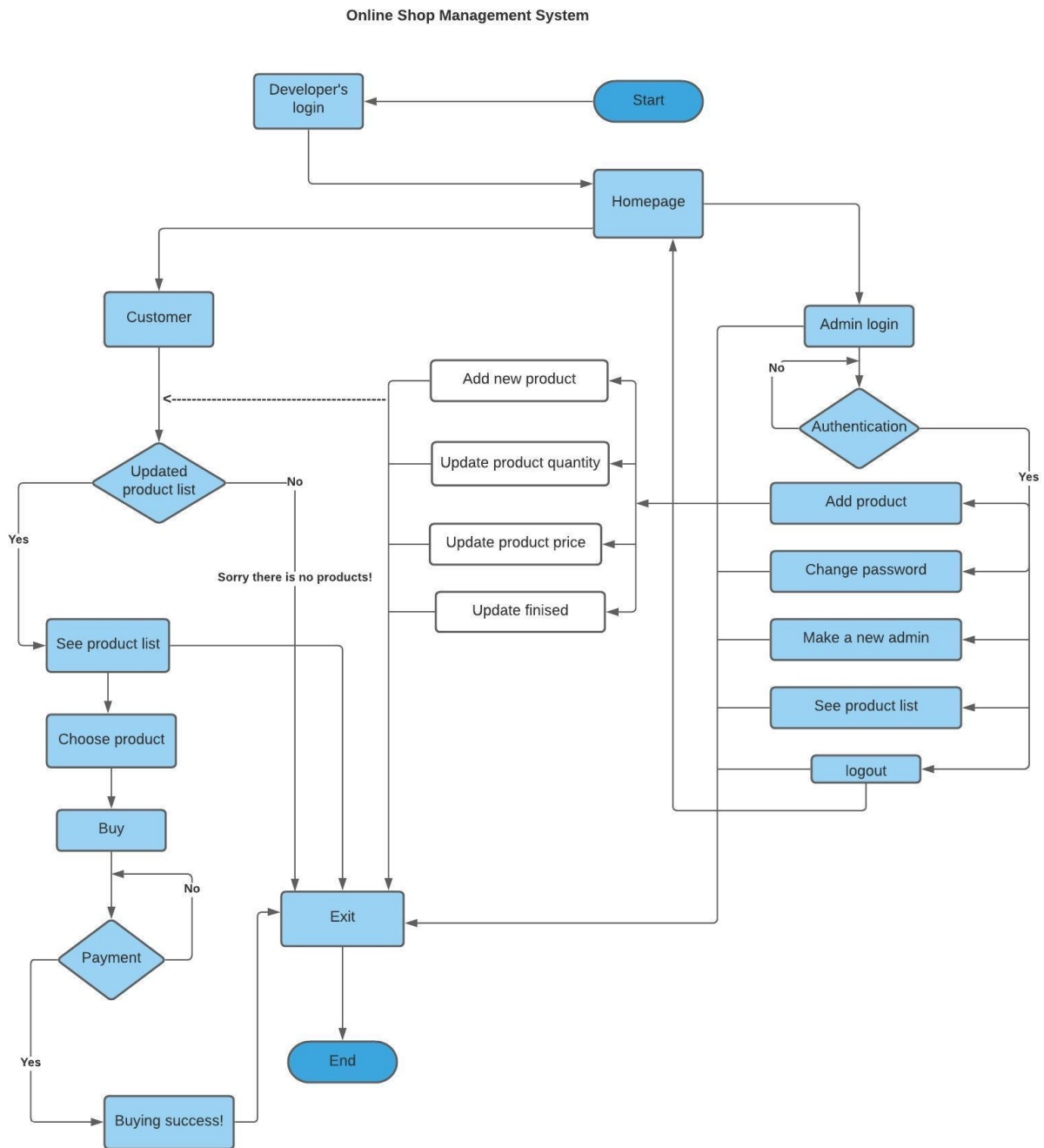
❖ Introduction / Problem Statement:

A full day of shopping is every girl's fantasy, especially for young girls, and every parent's, boyfriend's, and man's nightmare. For some people, going shopping is a highly important and almost obligatory activity. An online shop management software is used to sell products through online. In recent years, there has been a growing trend in online shopping. With the advent of technological advancement, the 21st century has witnessed the number of online shopping websites and apps.

People used to go to several stores before making a purchase because they didn't have simple access to product information in the past. Because of the advancement of the internet, it is now possible to access products available all over the world without wasting time, money, or other resources, while also benefiting the environment. A hassle free shopping is the desire of everyone. To avoid the hassle of shopping online shopping seems to be a good option, it saves the energy of spending in shopping physically.

In this software it contains mainly two parts, one is admin part and another one is customer part. In admin part after successfully login of admin through authentication admin can add new products, change the password, make a new admin, see product list and can logout from the admin portion which takes to homepage. In the customer part after updating the product list the customer can see the product list unless it takes to the customer in the exit part. Customers can select a product for buying after the update of the product list, when the payment will be done the buying process will be completed.

❖ Flow chart:



❖ **Output:**

1. First Admin(Developer of the system)

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
There's exists no admin, Please make at least one admin first
Enter new email
Cancel - Press C
tanvir@gmail.com
Enter Password :
1234
```

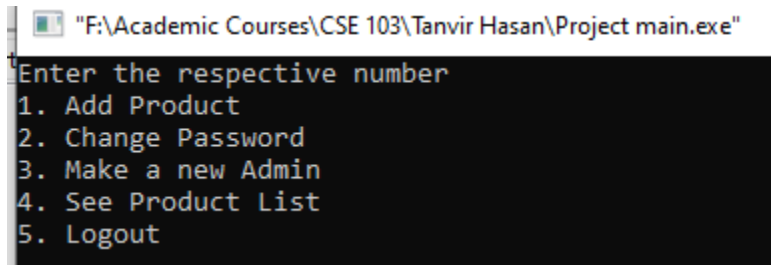
2. Home Page

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter the respective number
1. Admin Login
2. Customer
```

3. Wrong email and password of Admin(Developer Password)

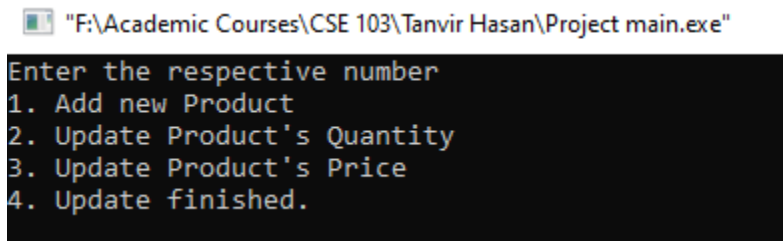
```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter Email :
Cancel - Press C
jannat@gmail.com
Enter Password :
1234
Email doesn't exist
Try Again
Enter Email :
Cancel - Press C
```

4. Admin panel activity



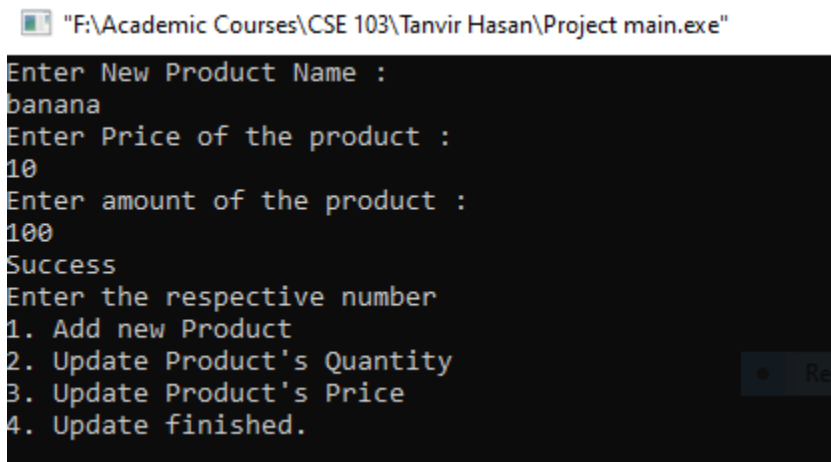
```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter the respective number
1. Add Product
2. Change Password
3. Make a new Admin
4. See Product List
5. Logout
```

5. Product add by admin panel



```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter the respective number
1. Add new Product
2. Update Product's Quantity
3. Update Product's Price
4. Update finished.
```

6. Insert product information by admin



```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter New Product Name :
banana
Enter Price of the product :
10
Enter amount of the product :
100
Success
Enter the respective number
1. Add new Product
2. Update Product's Quantity
3. Update Product's Price
4. Update finished.
```

7. Update Product's Quantity by admin


```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter Product Name :
banana
Enter amount of the product :
300
Success
Enter the respective number
1. Add new Product
2. Update Product's Quantity
3. Update Product's Price
4. Update finished.
```

Before update

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter New Product Name :
banana
Enter Price of the product :
10
Enter amount of the product :
100
Success
Enter the respective number
1. Add new Product
2. Update Product's Quantity
3. Update Product's Price
4. Update finished.
```

After Update:

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
1. banana      400      10
2. mango       500     100
Enter the respective number
1. Add Product
2. Change Password
3. Make a new Admin
4. See Product List
5. Logout
```

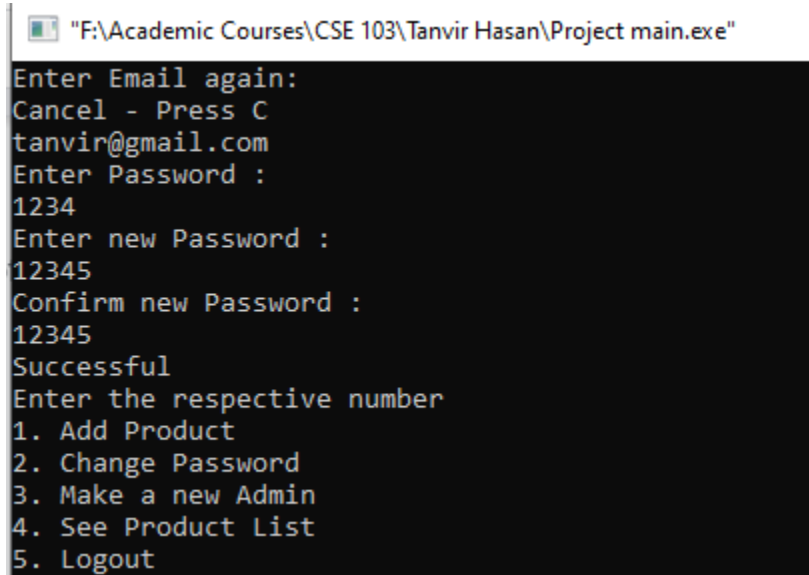
8. Admin can see the product list

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
1. banana      400      10
2. mango       500     100
Enter the respective number
1. Add Product
2. Change Password
3. Make a new Admin
4. See Product List
5. Logout
```

9. Admin can make another admin

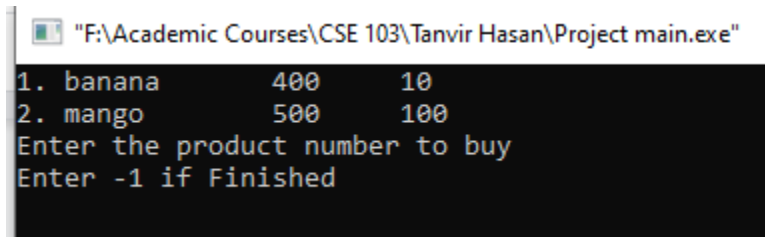
```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter new email
Cancel - Press C
admin3@gmail.com
Enter Password :
1234
```

10. Admin can change his password



```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
Enter Email again:
Cancel - Press C
tanvir@gmail.com
Enter Password :
1234
Enter new Password :
12345
Confirm new Password :
12345
Successful
Enter the respective number
1. Add Product
2. Change Password
3. Make a new Admin
4. See Product List
5. Logout
```

11. Customer can see all the available product list



```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
1. banana      400      10
2. mango       500     100
Enter the product number to buy
Enter -1 if Finished
```

12. Customer can buy product by inserting product id

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
1. banana      400      10
2. mango       500     100
Enter the product number to buy
Enter -1 if Finished
2
Enter amount to buy
20
Enter the product number to buy
Enter -1 if Finished
1
Enter amount to buy
100
```

13. Customer can see their selected products with total amount

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
2. mango       20      2000
1. banana      100     1000

Total Cost : 3000

Please pay to buy
Enter the respective number
1. Admin Login
2. Customer
```

14. Customer can see the updated available products amount

```
"F:\Academic Courses\CSE 103\tanvir Hasan\Project main.exe"
1. banana      300      10
2. mango       480     100
Enter the product number to buy
Enter -1 if Finished
```

❖ Limitations:

1. Customers can not pay the bill.
2. Home Delivery service is not available yet.

❖ Source Code:

```
1. #include<stdio.h>
2. #include<string.h>
3. #define MX 1000005
4. int index,max_admin,max_product,count_buy,buyitems[MX],amount_buy_items[MX];
5. char emailadmin[MX][55],passwordadmin[MX][55];
6. //O(1e6*50)//O(1e6*1e6)
7. struct product_info //structure create
8. {
9.     int price,amount;
10.    char name[55];
11. }products[MX];
12.
13. int isvalid(char *s) //in this function checking if admin
    email already exists
14. {
15.     index=0;
```

```

16.     for(int i=0;i<max_admin;i++){           //checking one by one if email
matches
17.         if(strcmp(emailadmin[i],s)==0){     //strcmp compares two strings
18.             index=i;
19.             return 1;
20.         }
21.     }
22.     return 0;
23. }
24.
25. int isValid2(char *s)                       //in this function checking if product
already exists
26. {
27.     for(int i=0;i<max_product;i++){
28.         if(strcmp(products[i].name,s)==0){
29.             index=i;
30.             return 1;
31.         }
32.     }
33.     return 0;
34. }
35.
36. int makeadmin()
37. {
38.     printf("Enter new email\n");
39.     printf("Cancel - Press C\n");
40.     int i,len;
41.     char pass[55],email[55];
42.     scanf("%s",&email);
43.
44.     len=strlen(email);
45.     if(email[0]=='C'&&len==1)return -1;
46.
47.     for(i=0;email[i]!='@'&&i<len;i++);
48.     for( ;email[i]!='.'&&i<len;i++);
49.     if(i==len){
50.         printf("\nInvalid Email\nPlease enter a valid Email\n");
51.         return 0;
52.     }
53.
54.     printf("Enter Password :\n");
55.     scanf(" %[^\\n]s",&pass);
56.
57.     if(isvalid(email)==0){
58.         strcpy(emailadmin[max_admin],email);
59.         strcpy(passwordadmin[max_admin],pass);
60.         max_admin++;
61.         printf("Successful\n");
62.         system("cls");
63.         return 1;
64.     }
65.     else{
66.         printf("Email already exists\nTry Again\n");
67.         return 0;
68.     }

```

```

69. }
70.
71. int signin()
72. {
73.     printf("Enter Email : \n");
74.     printf("Cancel - Press C\n");
75.     int i, len;
76.     char pass[55], email[55];
77.
78.     scanf("%s", &email);
79.     len=strlen(email);
80.
81.     if(email[0]=='C' && len==1) return -1;
82.
83.     for(i=0; email[i]!='@' && i<len; i++);
84.     for( ; email[i]!='.' && i<len; i++);
85.     if(i==len){
86.         printf("\nInvalid Email\nPlease enter a valid Email\n");
87.         return 0;
88.     }
89.
90.     printf("Enter Password : \n");
91.     scanf(" %[^\\n]s", &pass);
92.
93.     if(isvalid(email)==1){
94.         if(strcmp(passwordadmin[index], pass)==0){
95.             printf("Successful Login\n");
96.             return 1;
97.         }
98.         else{
99.             printf("Incorrect Password\nTry Again\n");
100.            return 0;
101.        }
102.    }
103.    else{
104.        printf("Email doesn't exist\nTry Again\n");
105.        return 0;
106.    }
107. }
108.
109. int changePassword()
110. {
111.     system("cls");
112.     printf("Enter Email again: \n");
113.     printf("Cancel - Press C\n");
114.     int i, len;
115.     char pass[55], email[55];
116.
117.     scanf("%s", &email);
118.     len=strlen(email);
119.
120.     if(email[0]=='C' && len==1) return -1;
121.
122.     for(i=0; email[i]!='@' && i<len; i++);
123.     for( ; email[i]!='.' && i<len; i++);

```

```

124.     if(i==len){
125.         printf("\nInvalid Email\nPlease enter a valid Email\n");
126.         return 0;
127.     }
128.
129.     printf("Enter Password :\n");
130.     scanf(" %[^\\n]s",&pass);
131.
132.     char npass[55],ncpass[55];
133.     printf("Enter new Password :\n");
134.     scanf(" %[^\\n]s",npass);
135.     printf("Confirm new Password :\n");
136.     scanf(" %[^\\n]s",ncpass);
137.
138.     if(isvalid(email)==1){
139.         if(strcmp(npass,ncpass)!=0){
140.             printf("Doesn't match\nTry Again\n");
141.             return 0;
142.         }
143.         if(strcmp(passwordadmin[index],pass)==0){
144.             strcpy(passwordadmin[index],npass);
145.             printf("Successful\n");
146.             return 1;
147.         }
148.         else{
149.             printf("Incorrect main Password\nTry Again\n");
150.             return 0;
151.         }
152.     }
153.     else{
154.         printf("Email doesn't exist\nTry Again\n");
155.         return 0;
156.     }
157. }
158.
159. void updateProductAmount()
160. {
161.     system("cls");
162.     printf("Enter Product Name :\n");
163.     char pro[103];
164.     scanf(" %[^\\n]s",pro);
165.     int count;
166.     printf("Enter amount of the product :\n");
167.     scanf("%d",&count);
168.     if(isvalid2(pro)==1){
169.         products[index].amount+=count;
170.         printf("Success\n");
171.     }
172.     else{
173.         printf("Product doesn't exist.\nTry Again.\n");
174.     }
175. }
176.
177. void updateProductPrice()
178. {

```

```

179.     system("cls");
180.     printf("Enter Product Name :\\n");
181.     char pro[103];
182.     scanf(" %[^\\n]s",pro);
183.     int price;
184.     printf("Enter Price of the product :\\n");
185.     scanf("%d",&price);
186.     if(isvalid2(pro)==1){
187.         products[index].price=price;
188.         printf("Success\\n");
189.     }
190.     else{
191.         printf("Product doesn't exist.\\nTry Again.\\n");
192.     }
193. }
194.
195. void addNewProduct()
196. {
197.     system("cls");
198.     printf("Enter New Product Name :\\n");
199.     char pro[103];
200.     scanf(" %[^\\n]s",pro);
201.     int price,count;
202.
203.     printf("Enter Price of the product :\\n");
204.     scanf("%d",&price);
205.     printf("Enter amount of the product :\\n");
206.     scanf("%d",&count);
207.     if(isvalid2(pro)==0){
208.         index=max_product;
209.         strcpy(products[index].name,pro);
210.         products[index].price=price;
211.         products[index].amount=count;
212.         max_product++;
213.         printf("Success\\n");
214.     }
215.     else{
216.         printf("Product already exists\\nTry Again\\n");
217.     }
218. }
219.
220. void updateProduct()
221. {
222.     printf("Enter the respective number\\n");
223.     printf("1. Add new Product\\n2. Update Product's Quantity\\n3. Update
Product's Price\\n4. Update finished.\\n");
224.     int a;
225.     while(scanf("%d",&a)&&a!=4){
226.         system("cls");
227.         if(a==1)addNewProduct();
228.         else if(a==2)updateProductAmount();
229.         else if(a==3)updateProductPrice();
230.         else printf("Please enter a valid number\\n");
231.         printf("Enter the respective number\\n");

```



```

232.         printf("1. Add new Product\n2. Update Product's Quantity\n3. Update
Product's Price\n4. Update finished.\n");
233.     }
234. }
235.
236. void admin()
237. {
238.     int v=signin();
239.     while(v!=1){
240.         v=signin();
241.         if(v==-1)return;
242.     }
243.     system("cls");
244.     printf("Enter the respective number\n");
245.     printf("1. Add Product\n2. Change Password\n3. Make a new Admin\n4. See
Product List\n5. Logout\n");
246.     int a;
247.     while(scanf("%d",&a)&&a!=5){
248.         system("cls");
249.         if(a==1){
250.             updateProduct();
251.         }
252.         else if(a==2){
253.             while(changePassword()==0);
254.         }
255.         else if(a==3){
256.             while(makeadmin()==0);
257.         }
258.         else if(a==4){
259.             printproducts();
260.         }
261.         else printf("Please enter a valid number\n");
262.         printf("Enter the respective number\n");
263.         printf("1. Add Product\n2. Change Password\n3. Make a new Admin\n4.
See Product List\n5. Logout\n");
264.     }
265. }
266.
267. void printproducts()
268. {
269.     for(int i=0;i<max_product;i++){
270.         printf("%d.
%s\t%d\t%d\n",i+1,products[i].name,products[i].amount,products[i].price);
271.     }
272. }
273. void printreceipt()
274. {
275.     system("cls");
276.     int sum=0;
277.     for(int i=0;i<count_buy;i++){
278.         int x=buyitems[i]-1;
279.         printf("%d.
%s\t%d\t%d\n",x+1,products[x].name,amount_buy_items[i],products[x].price*amount_
buy_items[i]);
280.         sum+=(products[x].price*amount_buy_items[i]);

```

```

281.     }
282.     printf("\nTotal Cost : %d\n\n",sum);
283. }
284.
285.
286. void customer()
287. {
288.     system("cls");
289.     printproducts();
290.     int id,a;
291.     count_buy=0;
292.     while(1){
293.         printf("Enter the product number to buy\nEnter -1 if Finished\n");
294.         scanf("%d",&id);
295.         if(id==-1)break;
296.         if(id>max_product){
297.             printf("Enter a valid number\n");
298.             continue;
299.         }
300.         else{
301.             printf("Enter amount to buy\n");
302.             scanf("%d",&a);
303.             if(products[id-1].amount<a){
304.                 printf("Product amount crossed\nPlease try again\n");
305.             }
306.             else{
307.                 buyitems[count_buy]=id;
308.                 amount_buy_items[count_buy]=a;
309.                 products[id-1].amount-=a;
310.                 count_buy++;
311.             }
312.         }
313.     }
314.     if(count_buy>0){
315.         printreceipt();
316.         printf("Please pay to buy\n");
317.     }
318. }
319.
320. int main()
321. {
322.     max_admin=0, max_product=0;
323.     printf("There's exists no admin, Please make at least one admin
first\n");
324.     int v=makeadmin();
325.     while(v==0||v==-1)v=makeadmin();
326.     printf("Enter the respective number\n");
327.     printf("1. Admin Login\n2. Customer\n");
328.     int a;
329.     while(scanf("%d",&a)&&a<3){
330.         system("cls");
331.         if(a==1)admin();
332.         else if(a==2)customer();
333.         printf("Enter the respective number\n");
334.         printf("1. Admin Login\n2. Customer\n");

```

