



PSP COURSE PROJECT REPORT

ON

“ONLINE SHOPPING”

DEVELOPED BY:

H.T.NO

STUDENT NAME

2203A51430

M. HARSHITHA

Under the Guidance of

Dr. Sheshikala Martha

Associate Professor & Head

Submitted to

Department of Computer Science and Artificial Intelligence

SR UNIVERSITY

Ananth Sagar(V), Hasanparthy(M), Hanamkonda(dist.)-506371

www.sru.edu.in

JUNE 2023

Department of Computer Science and Artificial Intelligence

CERTIFICATE

This is to certify that PSP course project report entitled “**ONLINE SHOPPING**” is a record of Bonafide work carried out by the students T. Siri Chandana, M. Harshitha, Y. Ashritha and S. Swarthik bearing roll numbers 2203A51451,2203A51430,2203A51458 and 2203A51445 of computer science department during the Acedemic year 2022-23.

Supervisor

(M. Sheshikala)

INDEX

Sl.NO	Title	Page No.
1.	Problem statement	4
2.	Module –wise description	5
3.	Knowledge required to develop the project	6
4.	Source code (.c file code followed by .h file code)	7
5.	Results	24

PROBLEM STATEMENT:

Develop a c application program for online shopping and store the product details of the products in a file.

Provide the functionality for below mentioned:

1. To add a product to existing cart.
2. To remove a product from the existing cart.
3. Show the billing as following:
 - Product
 - Colour
 - Price
 - Quantity
4. To order with the address with details like:
 - Mobile number
 - Country
 - State
 - District
 - House number
 - Payment method

MODULES:

In this application all variables and structures are declared globally so that these variables and structure members can be accessed throughout the program at any function call. We can choose any function by using function calls which are declared in switch-case. To repeat the loop control statement (do-while) is used with condition. The memory allocation will be done in this program dynamically.

The application asks the user to provide the details like E-mail to login to the application.

In this application four modules are used.

1. Selecting

In this module the application asks the user who runs the program to select their desired product.

2. Editing

In this module the application asks if the user wants to delete or add any product to the existing cart.

3. Billing

In this module the bill will be generated under the categories: -

Product, colour , price, quantity and shows the total amount to be paid.

The application asks if the user wants to place the order or continue shopping.

4.Address

In this module, the application asks to enter details of the user like: -

Mobile number, Country, State, District, House number, Payment method and places the order.

KNOWLEDGE REQUIRED TO DEVELOP THIS APPLICATION

- Control statements(if,if-else,switch)
- Loop statements (while/do while, for)
- Arrays(1D/2D-arrays)
- Strings (strings and table of strings) and its functions(strcpy,strcmp)
- Functions (any type of user defined functions)
- Structure (structures and nested structures)
- Pointers (pointer to strings and pointers to structures)
- Dynamic memory allocation(malloc/calloc/realloc)

SOURCE CODE (with files):

```
#include<stdio.h>
#include<strings.h>
void cart(char [],char [],float,int);
void address();
void add_item();
void bill();
char option='z';
struct online
{
char email[100];
struct address
{
int number[10];
char country[100];
char state[100];
char district[100];
char house[10];
int password[10];

}q;
}s;
struct cart
{
char item[100];
char color[100];
float cost;
```

```

int q;
}z[5];
int display();
FILE *b,*e,*y,*x,*t,*d;
int choice,things=0,quantity;
char colour[20],item[20];
float totalprice=0,price;
void select();
main()
{
char c;
printf("\n\n***-----WELCOME TO THRIFT SHOPPING-----
*****\n");
printf("logon to 'THRIFT SHOPPING' by providing following details \n\n");
printf("Enter your e-mail ID :");
//scanf("%s",s.email);
gets(s.email);
printf("\n\n");
select();
}
void select()
{
int i;
char c;
char option[20];
choice=display();
switch(choice)

```



```

{
case 1 :
printf("\t1.WOMEN\n");
printf("\t2.MEN\n");
printf("\t3.CHILDREN");
printf("\nSelect a type of clothing you'd like to shop :");
scanf("%d",&choice);
switch(choice)
{
case 1:
b=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/women.txt.txt","r");
printf("\n=====\\n");
printf(" type          colour          price\\n");
while(fscanf(b,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s      %s      %.2f",item,colour,price);
printf("\\n");
}
fclose(b);
do
{
printf("\\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
b=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/women.txt.txt","r");

```

```

while(fscanf(b,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}
}
fclose(b);
printf("\ndo you want to continue shopping for women[y/n/bill(b)] :");
scanf(" %c",&c);
}
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
case 2:
e=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/mens.txt","r");
printf("\n=====\\n");
printf(" type          colour          price\\n");
while(fscanf(e,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s          %s          %.2f",item,colour,price);
printf("\\n");
}

```

```
fclose(e);
do
{
printf("\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
e=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/mens.txt","r");
while(fscanf(e,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}

}
fclose(e);
printf("\ndo you want to continue shopping for men[y/n/bill(b)] :");
scanf(" %c",&c);
}
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
case 3:
```

```

y=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/children.txt","r");
printf("\n=====\\n");
printf(" type          colour          price\\n");
while(fscanf(y,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s          %s          %.2f",item,colour,price);
printf("\\n");
}
fclose(y);

do
{
printf("\\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
y=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/children.txt","r");
while(fscanf(y,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}
}
fclose(y);
printf("\\ndo you want to continue shopping for children[y/n/bill(b)] :");
scanf(" %c",&c);

```

```

}
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
}
break;
case 2:
x=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/accessories.txt","r");
printf("\n=====\\n");
printf(" type          colour          price\\n");
while(fscanf(x,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s          %s          %.2f",item,colour,price);
printf("\\n");
}
fclose(x);
do
{
printf("\\n\\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
x=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/accessories.txt","r");

```

```

while(fscanf(x,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}
}
fclose(x);
printf("\ndo you want to continue shopping for accessories[y/n/bill(b)] :");
scanf(" %c",&c);
}
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
case 3:
t=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/groceries.txt","r");
printf("\n=====\\n");
printf(" type          quantity          price per 1 kg/ltr/dozen\\n");
while(fscanf(t,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s          %s          %.2f",item,colour,price);
printf("\\n");
}

```

```

fclose(t);
do
{
printf("\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
t=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/groceries.txt","r");
while(fscanf(t,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}
}
fclose(t);
printf("\ndo you want to continue shopping for groceries[y/n/bill(b)] :");
scanf(" %c",&c);
}
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
case 4:
d=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/electronics.txt","r");

```

```

printf("\n=====\\n");
printf(" type      colour      price\\n");
while(fscanf(d,"%s %s %f",&item,&colour,&price)!=EOF)
{
printf("-----\\n");
fprintf(stdout,"%s      %s      %.2f",item,colour,price);
printf("\\n");
}
fclose(d);
do
{
printf("\\nEnter the product that you want to add to cart :");
scanf("%s",&option);
printf("enter quantity=");
scanf("%d",&quantity);
d=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/electronics.txt","r");
while(fscanf(d,"%s %s %f",&item,&colour,&price)!=EOF)
{
if(strcmp(option,item)==0)
{
cart(item,colour,price,quantity);
}
}
fclose(d);
printf("\\ndo you want to continue shopping for groceries[y/n/bill(b)] :");
scanf(" %c",&c);
}

```



```
while(c=='y');
if(c=='n')
select();
if(c=='b')
bill();
break;
    }
}
int display()
{
int choice;
printf("The following are the categories we have that you might like to shop\n");
printf("\t1.Clothes\n");
printf("\t2.Accessories\n");
printf("\t3.Grocery\n");
printf("\t4.Electronics\n");
printf("Select a category you want to shop :");
scanf("%d",&choice);
return choice;

}
void cart(char item[100],char colour[100],float price,int q)
{
strcpy(z[things].item,item);
strcpy(z[things].color,colour);
z[things].cost=price;
z[things].q=q;
```

```

totalprice=totalprice+(z[things].cost*z[things].q);
things++;

}

void bill()
{
int i;
char c;
printf("\n=====
=====\\n");

printf("s.no product          colour          price          quantity\\n");
for(i=0;i<things;i++)
{
printf("-----\\n");
printf("%d %s          %s          %.2f
%d\\n",i+1,z[i].item,z[i].color,z[i].cost*z[i].q,z[i].q);
printf("-----\\n");
}

printf("\ntotal amount=%f\\n",totalprice);
    for(i=0;i<1;i++)
    {
if(option=='a')
continue;
printf("\nPress 'o' to place order:");
scanf(" %c",&c);
if(c=='o')
address();
}

```

```

}
int delete_item()
{
int i,r;
char c;
printf("\n The items in cart are =\n");
for(i=0;i<things;i++)
{
printf("\t%d %s %s %f %d\n",i+1,z[i].item,z[i].color,z[i].q*z[i].cost,z[i].q);
}
printf("\nenter the item you want to remove :");
scanf("%d",&r);
if(z[r-1].q>1)
{
z[r-1].q=z[r-1].q-1;
}
else
{
for(i=r;i<things;i++)
{
strcpy(z[i-1].item,z[i].item);
strcpy(z[i-1].color,z[i].color);
z[i-1].cost=z[i].cost;
}
things=things-1;
}
printf("\n-----selected item is succesfully removed-----\n");

```

```

for(i=0;i<things;i++)
{
printf("\t%d %s %s %f %d\n",i+1,z[i].item,z[i].color,z[i].q*z[i].cost,z[i].q);
}
return things;
}

void edit()
{
int i;

printf("\ndo you want to remove/add any item from/to the cart\n To remove press'r'\n To add
press 'a'\n To go to billing press 'b'=");

scanf(" %c",&option);

if(option=='r')
things=delete_item();

if(option=='a')
select();
}

void address()
{
edit();

char c,ch;

printf("\n=====ENTER YOUR
DETAILS=====\\n");

printf("Enter your mobile number :");scanf("%d",&s.q.number);

printf("Enter addresss :\\n");

printf("\tCountry :");

scanf("%s",s.q.country);

printf("\n\tState :");

```

```

scanf("%s",s.q.state);
printf("\n\tDistrict :");
scanf("%s",s.q.district);
printf("\n\tHouse number :");
scanf("%d",&s.q.house);
printf("\nPAYMENT METHOD :");
printf("\n\t1.cash on delivery(d)\n\t2.pay with card(p) :");
scanf(" %c",&c);
if(c=='d')
printf("\n ORDER PLACED SUCCESSFULLY :)");
else
{
printf("\n choose your card\n \tcredit(c)\n\tdebit(d)");
scanf(" %c",&ch);
printf("\nenter your password :");
scanf("%d",&s.q.password);
printf("\n=====ORDER PLACED SUCCESSFULLY :)=====");
}
printf("\n=====THANK YOU FOR CHOOSING 'THRIFTSHOP' :) :)
:)======");
}

```

FILE CODE :

```

#include<stdio.h>

main()
{
    FILE *b,*e,*y,*x,*t,*d;
    char item[20];
    char colour[20];
    float price;
    printf("womens\n");
    b=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/women.txt.txt","w");
    while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)
    fprintf(b,"%s %s %.2f",item,colour,price);
    fclose(b);
    printf("\nmens");
    e=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/mens.txt","w");
    while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)
    fprintf(e,"%s %s %.2f",item,colour,price);
    fclose(e);
    printf("\nchildren");
    y=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/children.txt","w");
    while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)
    fprintf(y,"%s %s %.2f",item,colour,price);
    fclose(y);
    printf("acesories\n");
    x=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/accessories.txt","w");
    while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)
    fprintf(x,"%s %s %.2f",item,colour,price);
}

```

```
fclose(x);  
printf("groceries\n");  
t=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/groceries.txt","w");  
while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)  
    fprintf(t,"%s %s %.2f",item,colour,price);  
fclose(t);  
printf("Electronics\n");  
d=fopen("C:/Users/sirichandana/OneDrive/Desktop/products/electronics.txt","w");  
while(fscanf(stdin,"%s %s %f",item,&colour,&price)!=EOF)  
    fprintf(d,"%s %s %.2f",item,colour,price);  
fclose(d);
```

```
}
```

OUTPUT:

FIG 1: SELECTING A CATEGORY TO SHOP

```
*****-----WELCOME TO THRIFT SHOPPING-----*****
logon to 'THRIFT SHOPPING' by providing following details

Enter your e-mail ID :sirichandana

The following are the categories we have that you might like to shop
  1.Clothes
  2.Accessories
  3.Grocery
  4.Electronics
Select a category you want to shop :1
  1.WOMEN
  2.MEN
  3.CHILDREN
Select a type of clothing you'd like to shop :1

=====
type          colour          price
-----
kurtha        pink            1200.00
-----
jeans         blue             999.00
-----
t-shirt       blue             600.00
-----
sweat-shirt   pink             799.00
-----
hoodie        blue             799.00

Enter the product that you want to add to cart :kurtha
enter quantity=1

do you want to continue shopping for women[y/n/bill(b)] :n
The following are the categories we have that you might like to shop
  1.Clothes
  2.Accessories
  3.Grocery
```


FIG 2: ADDING ITEMS OF ACCESSORIES AND GROCERIES TO CART

```

4.Electronics
Select a category you want to shop :2

=====
type          colour      price
-----
chain         white        699.00
-----
watch         titan(silver)  2000.00
-----
ring          gold         2500.00
-----
studs         pink         59.00
-----
bracelet      black        199.00
-----

Enter the product that you want to add to cart :watch
enter quantity=1

do you want to continue shopping for accessories[y/n/bill(b)] :n
The following are the categories we have that you might like to shop
1.Clothes
2.Accessories
3.Grocery
4.Electronics
Select a category you want to shop :3

=====
type          quantity      price per 1 kg/ltr/dozen
-----
eggs          per_twelve      60.00
-----
rice          per_kg          255.00
-----
oil           per_ltr         85.00
-----
bread         one             50.00
-----
sugar         per_kg          40.00
-----

```

FIG 3: ADDING PRODUCTS OF ELECTRONICS TO CART AND BILLING

Enter the product that you want to add to cart :eggs
enter quantity=1

do you want to continue shopping for groceries[y/n/bill(b)] :n
The following are the categories we have that you might like to shop

- 1.Clothes
- 2.Accessories
- 3.Grocery
- 4.Electronics

Select a category you want to shop :4

type	colour	price
hplaptop	silver	50000.00
headphones	black	2000.00
tv	black	85000.00
AC	white	90000.00
smartwatch	black	3000.00

Enter the product that you want to add to cart :AC
enter quantity=1

do you want to continue shopping for groceries[y/n/bill(b)] :b

s.no	product	colour	price	quantity
1	kurtha	pink	1200.00	1
2	watch	titan(silver)	2000.00	1
3	eggs	per_twelve	60.00	1

FIG 4: REMOVING ITEMS FROM THE CART

```

-----
2 watch          titan(silver)          2000.00          1
-----
3 eggs           per_twelve             60.00            1
-----
4 AC             white                   90000.00         1
-----

total amount=93260.000000

Press 'o' to place order:o

do you want to remove/add any item from/to the cart
To remove press'r'
To add press 'a'
To go to billing press 'b'=r

The items in cart are =
  1 kurtha pink  1200.000000  1
  2 watch titan(silver)  2000.000000  1
  3 eggs per_twelve  60.000000  1
  4 AC white  90000.000000  1

enter the item you want to remove :1

-----selected item is succesfully removed-----
  1 watch titan(silver)  2000.000000  1
  2 eggs per_twelve  60.000000  1
  3 AC white  90000.000000  1

=====ENTER YOUR DETAILS=====
Enter your mobile number :9989795762
Enter addresss :
  Country :india

  State :telangana

  District :warangal

```

FIG 5: PLACING ORDER

```

The items in cart are =
  1 kurtha pink  1200.000000  1
  2 watch titan(silver)  2000.000000  1
  3 eggs per_twelve  60.000000  1
  4 AC white  90000.000000  1

enter the item you want to remove :1

-----selected item is succesfully removed-----
  1 watch titan(silver)  2000.000000  1
  2 eggs per_twelve  60.000000  1
  3 AC white  90000.000000  1

=====ENTER YOUR DETAILS=====
Enter your mobile number :9989795762
Enter addresss :
  Country :india

  State :telangana

  District :warangal

  House number :2318011

PAYMENT METHOD :
  1.cash on delivery(d)
  2.pay with card(p) :p

choose your card
  credit(c)
  debit(d)c

enter your password :123678

=====ORDER PLACED SUCCESSFULLY :)=====
=====THANK YOU FOR CHOOSING 'THRIFTSHOP' :) :) =====
=====
Process exited after 112.5 seconds with return value 110
Press any key to continue . . . |

```