SR UNIVERSITY

PSP [20ES104] COURSE PROJECT

On

"ONLINE SHOPING PLATFORM"

Developed By:

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CERTIFICATE

This is to certify that the PSP course project report entitled " Title of the project" is a record of bonafide work carried out by the student(s) **B.NAGARAJU , P.RAHUL, M.SAHITH & CH.RUSIKAR** bearing roll number(s) **2203A51072, 2205A41058, 2203A51083 & 2205A41037** of Computer Science and Artificial Intelligence department during the academic year 2022-23.

Supervisor

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Problem Statement:

The objective of the project is to develop an online shopping store using C programming language. The store should be able to allow users to browse through the available products, add them to a shopping cart, and make payments for their purchases.

Module-wise Description:

The project can be divided into several modules:

- **User registration and login**
- **Product browsing and search**
- **Shopping cart management**
- **Payment gateway integration**
- **Order tracking and management**

Knowledge Required to Develop the Project:

To develop this project, you need to have a good understanding of the C programming language, including its syntax and concepts such as variables, functions, loops, and pointers. You also need to have knowledge of web development concepts such as HTML, CSS, and JavaScript. Additionally, you should be familiar with database management systems and SQL.

Source Code:

Here is an example of the source code for the product browsing module:

```c
#include <stdio.h>

#include <string.h>


struct details {

        char uname[50];

        int age;

        char password[100];

        char email[100];

        char mobile[10];

};


struct Shops {

        char shop[100];

        char item1[20];

        char item2[20];

        char item3[20];
```

```c
        char item4[25];

        int first, second, third, fourth;

};


struct Shops m[5];

struct details s[100];

void signup();

void account_validate();

int validate();

void login();

void cart();

void shop();

void items();

void item_order(int item);


void shop_initialize();

void Shop(int shop_choice);


char t_name[100], t_password1[100];

char t_password2[100], t_email[100];
```

```c
char t_mobile[100];

int flag = 1, i, j = 0, count = 0, caps = 0;

int Small = 0,total = 0 ,success = 0,special = 0, numbers = 0;

int x, choice,t_age, item_choice, n,shop_choice, search_choice,
confirm,ch, item, shop_id;

int main()

{

        while (1)

        {

            printf("\n\n\t****************Welcome to
    Shop""Cart****************\n");

            printf("\n\n1)SIGNUP");

            printf("\n2)LOGIN");

            printf("\n3)EXIT");

            printf("\n\n\nEnter your choice : ");

            scanf("%d", &choice);

            switch (choice) {

            case 1: {

                    signup();

                    break;
```

```c
            }
            case 2: {
                    login();
                    break;
            }
            case 3: {
                    printf("\n\t*************************Thank
you " "Visit Again********************\n\n");
                    return 0;
            }
            default: {
                    printf("\n\nPlease enter valid choice!!\n");
                    break;
            }
            }
        }
}
void signup()
{
```

```c
printf("\n\n\t*****************""Welcome to Signup ""Page***************""*\n\n");

printf("\tEnter Your name : ");

scanf("%s", t_name);


printf("\tEnter Your Email : ");

scanf("%s", t_email);


printf("\tEnter Password : ");

scanf("%s", t_password1);


printf("\tConfirm Password : ");

scanf("%s", t_password2);


printf("\tEnter Your Mobile Number : ");

scanf("%s", t_mobile);


printf("\tEnter Your Age : ");

scanf("%d", &t_age);
```

```c
        x = validate();

        if (x == 1) {

            account_validate();

            login();

        }

    }

    int validate()

    {

        for (i = 0; t_name[i] != '\0'; i++) {

            if (!((t_name[i] >= 'a' && t_name[i] <= 'z')

                    || (t_name[i] >= 'A' && t_name[i] <= 'Z'))) {

                printf("\nPlease enter the valid Name!\n");

                flag = 0;

                break;

            }

        }

        if (flag == 1) {

            count = 0;

            for (i = 0; t_email[i] != '\0'; i++) {

                if (t_email[i] == '@' || t_email[i] == '.')
```

```c
                count++;
        }
        if (count >= 2 && strlen(t_email) >= 5) {
                if (!strcmp(t_password1, t_password2)) {
                        if (strlen(t_password1) >= 8
                                && strlen(t_password1) <= 12) {
                                caps = 0;

                                Small = 0;

                                numbers = 0;

                                special = 0;

for (i = 0; t_password1[i] != '\0';i++)

{

        if (t_password1[i] >= 'A'&& t_password1[i] <= 'Z')

                caps++;

        else if (t_password1[i] >= 'a'&& t_password1[i] <= 'z')

                Small++;

        else if (t_password1[i] >= '0'&& t_password1[i] <= '9')

                numbers++;

        else if (t_password1[i] == '@'|| t_password1[i] == '&'

|| t_password1[i] == '#'|| t_password1[i] == '*')
```

```c
                    special++;

    }

    if (caps >= 1 && Small >= 1&& numbers >= 1 && special >= 1)

     {

          if (t_age != 0 && t_age > 0)

           {

                    if (strlen(t_mobile) == 10)

                     {

                              for (i = 0; i < 10; i++)

                               {

                                        if (t_mobile[i] >= '0'&& t_mobile[i] <= '9')

                                         {

                                                  success = 1;

                                         }

                                        else

                                         {

                                                  printf("\n\nPlease");

                                                  printf("Enter Valid ");

                                                  printf("Mobile “"Number\n\n");

    return 0;
```

```c
        break;

    }

    }

    if (success == 1)

            return 1;

    }

    else

     {

            printf("\n\nPlease Enter ""the 10 digit ""mobile number\n\n");

            return 0;

    }

    }

    else

    {

            printf("\n\nPlease Enter the ""valid age\n\n");

             return 0;

    }

    }

    else

    {
```

```c
        printf("\n\nPlease Enter the strong ""password, Your
password must ""contain atleast one ""uppercase,Lowercase,
Number ""and special character\n\n ");

        return 0;

}

}

else

 {

        printf("\nYour Password is very ""short\nLength must between
        8 ""to 12\n\n");

        return 0;

}

}

else

{

        printf("\nPassword Mismatch\n\n");

        return 0;

}

}

else

{
```

```c
        printf("\nPlease Enter Valid E-Mail\n\n");

        return 0;

    }

}

}

void account_validate()

{

    for (i = 0; i < 100; i++)

    {

            if (!(strcmp(t_email, s[i].email)&& strcmp(t_password1,
    s[i].password)))

     {

    printf("\n\nAccount Already Existed. Please ""Login !\n\n");

    login();

    break;

    }

    }

    if (i == 100)

    {

            strcpy(s[j].uname, t_name);
```

```c
            s[j].age = t_age;

            strcpy(s[j].password, t_password1);

            strcpy(s[j].email, t_email);

            strcpy(s[j].mobile, t_mobile);

            j++;

            printf("\n\n\nAccount Successfully Created!\n\n");

            }

}
void login()
{

        printf("\n\n\t****************""Welcome to Login
""Page********************""****\n\n");

        printf("\n\nLOGIN\n\n");

        printf("\t Enter Your Email: ");

        scanf("%s", t_email);

        printf("\t Enter Your Password: ");

        scanf("%s", t_password1);

        for (i = 0; i < 100; i++)

{

if (!strcmp(s[i].email, t_email))
```

```c
{
    if (!strcmp(s[i].password, t_password1))
    {
        printf("\n\nWelcome %s, ", s[i].uname);

        printf("Your are successfully logged in\n\n ");

        printf("We Provide two ways of search : \n ");

        printf("1) Search By Shop\n ");

        printf("2) Search by item\n ");

        printf("3) Exit\n\n");

        printf("Please Enter your choice : ");

        scanf("%d", &search_choice);

switch (search_choice)
{
        case 1:
        {
                shop();
                break;
        }
            case 2: {
```

```c
                items();

                break;

        }

        case 3: {

                main();

                break;

        }

        default: {

                printf("Please Enter the valid ""choice!!!\n\n");

                break;

        }

        }

        break;

        }

        else {

                printf("\n\nInvalid Password!!\n ");

                printf("Please Enter the correct
""password\n\n");

                login();

        break;
```

```c
            }

            }

        else {

        printf("\n\nAccount doesn't exist, Please ""signup!!\n\n ");

        main();

        break;

        }

        }

        }
void shop_initialize()

{

                strcpy(m[1].shop, "Puma");

                strcpy(m[1].item1, "puma sneaker V2");

                strcpy(m[1].item2, "mens dryflex");

                strcpy(m[1].item3, "one8x puma");

                m[1].first = 3499;

                m[1].second = 2999;

                m[1].third = 5999;


                strcpy(m[2].shop, "USA");
```

```c
        strcpy(m[2].item1, "US polo Tshirt");

        strcpy(m[2].item2, "Shoes");

        strcpy(m[2].item3, "shirt");

        m[2].first = 999;

        m[2].second = 2000;

        m[2].third = 1499;


        strcpy(m[3].shop, "WROGN");

        strcpy(m[3].item1, "Mens Watch");

        strcpy(m[3].item2, "mens solid jacket");

        strcpy(m[3].item3, "casusal T-shirt");

        m[3].first = 2000;

        m[3].second = 2239;

        m[3].third = 799;
}


void shop()
{
        shop_initialize();
```

```c
        printf("\n\nPlease Choose the Shop \n\n1) %s\n2) ""%s\n3) %s",

            m[1].shop, m[2].shop, m[3].shop);

        printf("\n4) Exit\n\nPlease ");

        printf("select the shop\t");


        scanf("%d", &shop_choice);

        if (shop_choice > 4) {

            printf("Please Enter the");

            printf("valid choice\n\n");

            shop();

        }

        else if (shop_choice == 4)

            main();

        else{

            Shop(shop_choice);

        }

}


void Shop(int shop_choice)
```

```c
{
    total = 0;

    while (1) {

        printf("\n\nList of items available ");

        printf("in %s\n\n1) %s --> %d\n",
                m[shop_choice].shop, m[shop_choice].item1,
                m[shop_choice].first);

        printf("2) %s --> %d\n3) %s --> %d\n",
                m[shop_choice].item2, m[shop_choice].second,
                m[shop_choice].item3, m[shop_choice].third);

        printf("4) Cart\n5) Exit\n\nPlease Enter ");
        printf("Your Choice : ");
        scanf("%d", &item_choice);
```

```c
if (item_choice == 1) {

        printf("Please Enter the ");

        printf("Count of %s\t", m[shop_choice].item1);

        scanf("%d", &n);

        total = total + (n * m[shop_choice].first);

}
else if (item_choice == 2) {

        printf("Please Enter the Count");

        printf("of %s : ", m[shop_choice].item1);

        scanf("%d", &n);

        total = total + (n * m[shop_choice].second);

}
else if (item_choice == 3) {

        printf("Please Enter the Count");

        printf("of %s : ", m[shop_choice].item3);

        scanf("%d", &n);

        total = total + (n * m[shop_choice].third);

}


else if (item_choice == 4) {
```

```c
                cart();
        }
        else if (item_choice == 5) {
                shop();
        }
        else {
                printf("Please Enter the");
                printf("valid Choice\n\n");
        }
    }
}

void items()
{
        total = 0;
        shop_initialize();
        while (1) {

            printf("\n\nPlease choose the ");
```

```c
        printf("item\n\n1) %s /t--> %d\n2) %s/t -->
%d",m[1].item1, m[1].first, m[1].item2,m[1].second);


        printf("\n3) %s/t --> %d\n4) %s/t -->
%d\n",m[1].item3, m[1].third, m[2].item1,m[2].first);


        printf("5) %s/t --> %d\n6) %s/t --> %d\n",m[2].item2,
m[2].second, m[2].item3,m[2].third);


        printf("7) %s/t --> %d\n8) %s/t --> %d\n",m[3].item1,
m[3].first, m[3].item2,m[3].second);


        printf("9) %s/t --> %d\n10) Cart\n",
m[3].item3,m[3].third);

        printf("11) Exit");

        printf("\nPlease Enter Your Choice : ");

        scanf("%d", &item);

        if (item > 10)

        {

                printf("Please Enter the ");

                printf("valid choice\n\n");
```

```
                items();
        }
    else if (item == 10)
            cart();
    else if (item == 11)
            return;


    else
            item_order(item);
    }
}


void item_order(int item)
{

        if (item >= 1 && item <= 3)
            shop_id = 1;
        else if (item >= 4 && item <= 6)
            shop_id = 2;
        else
```

```c
        shop_id = 3;
    if ((item % 3) == 1) {

        printf("Please Enter the");

        printf(" Count of %s : ", m[shop_id].item1);

        scanf("%d", &n);

        total = total + (n * m[shop_id].first);

    }

    else if ((item % 3) == 2) {

        printf("Please Enter the ");

        printf("Count of %s\t", m[shop_id].item2);

        scanf("%d", &n);

        total = total + (n * m[shop_id].second);

    }

    else if ((item % 3) == 0) {

        printf("Please Enter the Count of
%s\t",m[shop_id].item3);

        scanf("%d", &n);

        total = total + (n * m[shop_id].third);

    }

}
```

```c
void cart()
{
        printf("\n\n\n\n\t******************************""Cart*****************************");

        printf("\n\nYour Total Order Amount is : %d\n", total);

        printf("\n\nDo You wish to order (y=1/n=0) : ");

        scanf("%d", &ch);
if (ch == 1) {

        printf("\n\nThank You for your Order");

        printf("\nYour item is on the way. Welcome again ""\n\n ");


        main();

        return;

    }
        else if (ch == 0) {

        printf("To cancel Your Order = 1 \nTo Exit = 0 ");

        printf("Select option : ");

        scanf("%d", &confirm);
```

```c
            if (confirm == 1) {

                    printf("\n\nOops! Your item is cancelled!!
""Exiting..\n\n");

                    printf("Thank You visit again!\n");

                    main();

                    return;

            }

            else {

                    printf("\n\n\t\t***********Thank
You****************\n\n");

                    login();

            }

        }

        else {

            printf("\n\nPlease Enter the correct choice\n\n ");

            cart();

        }

}
```

SOURCE CODE [HEADER FILE]:

#include <stdio.h>

#include<string.h>

Results:

                ONLINE SHOPPING STORE

******************Welcome to Shop Cart*****************

1)SIGNUP

2)LOGIN

3)EXIT

Enter your choice : 1

******************Welcome to Signup Page*****************

Enter Your name : nagaraju

Enter Your Email : nagaraju@gmail.com

Enter Password : Nagaraju_@12

Confirm Password : Nagaraju_@12

Enter Your Mobile Number : 0987654321

Enter Your Age : 20

Account Successfully Created!

******************Welcome to Login Page*********************

LOGIN

Enter Your Email: nagaraju@gmail.com

Enter Your Password: Nagaraju_@12

Welcome nagaraju,Your are successfully logged in

We Provide two ways of search :

1) Search By Shop

2) Search by item

3) Exit

Please Enter your choice : 1

Please Choose the Shop

1) Puma

2) USA

3) WROGN

4) Exit

Please select the shop 1

List of items available in Puma

1) puma sneaker V2 --> 3499

2) mens dryflex --> 2999

3) one8x puma --> 5999

4) Cart

5) Exit

Please Enter Your Choice : 1

Please Enter the Count of puma sneaker V2   2

List of items available in Puma

1) puma sneaker V2 --> 3499

2) mens dryflex --> 2999

3) one8x puma --> 5999

4) Cart

5) Exit

Please Enter Your Choice : 4

******************************Cart***

Your Total Order Amount is : 6998

Do You wish to order (y=1/n=0) : 1

Thank You for your Order

Your item is on the way. Welcome again

ONLINE SHOPPING STORE

*****************Welcome to Shop Cart*****************

1)SIGNUP

2)LOGIN

3)EXIT

Enter your choice : 2

****************Welcome to Login Page************************

LOGIN

Enter Your Email: nagaraju@gmail.com

Enter Your Password: Nagaraju_@12

Welcome nagaraju,Your are successfully logged in

We Provide two ways of search :

1) Search By Shop

2) Search by item

3) Exit

Please Enter your choice : 2

Please choose the item

1) puma sneaker V2 --> 3499

2) mens dryflex --> 2999

3) one8x puma --> 5999

4) US polo Tshirt --> 999

5) Shoes --> 2000

6) shirt --> 1499

7) Mens Watch --> 2000

8) mens solid jacket --> 2239

9) casusal T-shirt --> 799

10) Cart

11) Exit

Please Enter Your Choice : 5

Please Enter the Count of Shoes   2

Please choose the item

1) puma sneaker V2 --> 3499

2) mens dryflex --> 2999

3) one8x puma --> 5999

4) US polo Tshirt --> 999

5) Shoes --> 2000

6) shirt --> 1499

7) Mens Watch --> 2000

8) mens solid jacket --> 2239

9) casusal T-shirt --> 799

10) Cart

11) Exit

Please Enter Your Choice : 10

*****************************Cart**

Your Total Order Amount is : 4000

Do You wish to order (y=1/n=0) : 1

Thank You for your Order

Your item is on the way. Welcome again

ONLINE SHOPPING STORE

*****************Welcome to Shop Cart*****************

1)SIGNUP

2)LOGIN

3)EXIT

Enter your choice : 3

**************************Thank you Visit Again*********************