OOP PROJECT SOURCE CODE

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//Object-Oreinted-Programming Project
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//Project Name: Feasomed

#include <iostream>

#include <iomanip>

#include <windows.h>

#include <vector>

#include <fstream>

#include <string>

#include <sstream>

#include <conio.h>

using namespace std;

int main();

//Login Class

```
class Login
  char login[30];
  char pass[30];
public:
  int check(const char *a, const char *b)
    if (strcmp(a, login) == 0 && strcmp(b, pass) == 0)
      return 1;
    return 0;
  Login(const char *a, const char *b)
    strcpy(login, a);
    strcpy(pass, b);
//Market Class
class market
public:
  char prod[20];
  int price;
  long int total;
  int sr_no;
```

```
//Item Class
class item
public:
  int quantity;
  int limit;
  int sr_no;
  int code;
  char name[20];
  int order_quantity = 0;
//Wholesaler Class
class wholesaler
public:
  char name[20];
  int rating;
  char r_id[30];
  char r_pass[30];
  int price;
  item items;
  char address[100];
  bool cofirmation = 0;
//Order Class
//Inheritance
class order : public item
```

```
//Main Storage Class
class mainStorage
public:
  item items;
//Class for State
//Inheritance
class st : public mainStorage
public:
  char s_name[20];
  char s_id[30];
  char s_pass[30];
  int o = 0;
//Class for Region
//Inheritance
class reg : public st
public:
  char r_name[20];
  int r_id;
```

```
//Class for Hospital
//Inheritance
class hos : public reg
public:
  char h_name[30];
  char h_id[30];
  char h_pass[30];
vector<hos> h;
mainStorage obj;
//Function For Admin
int admin()
  cout << "Welcome" << endl
    << endl;
  cout << endl
    << endl
    << endl
     << endl
    << "Please select an appropriate option:-" << endl
     << endl;
  cout << " 1.Add State" << endl
    << " 2.Add Item" << endl
    << " 3.Check items" << endl
     << " 4.Delete Item" << endl
```

```
<< " 5.Change item" << endl
   << " 6.Check States" << endl
   << " 7.Add Wholesaler" << endl
   << " 8.Check Wholesaler" << endl
   << " 9.Goto Login Page" << endl
   << " 10.Exit the System" << endl
   << endl
   << "Enter the required option:-";
int option;
cin >> option;
//Option 1
//Add State
if (option == 1)
  st S;
  fstream all_states("states.txt");
  all_states.seekg(0, ios::end);
  int no_states = all_states.tellg() / sizeof(S);
  int n;
  cout << "enter number of states to be added :- ";</pre>
  cin >> n;
  for (int i = 0; i < n; i++)
    cout << "Sr. No. :- " << no_states + 1 << endl;
```

```
cout << "Name of state :- ";
      cin >> S.s_name;
      char id[30] = "ID_";
      char pass[30] = "PASS_";
      strcat(id, S.s_name);
      strcat(pass, S.s_name);
      strcpy(S.s_id, id);
      strcpy(S.s_pass, pass);
      all_states.write((char *)&S, sizeof(S));
      char state_name[20];
      strcpy(state_name, S.s_name);
      strcat(state_name, ".txt");
      ofstream S1(state_name);
      fstream temp s("temp s.txt");
      cout << "\n\nState :- " << S.s_name << " added with Login ID :- " << id << " and
Password :- " << pass << endl;
      if (temp_s && S1)
        string line;
        while (getline(temp s, line))
          S1 << line;
```

```
S1.close();
       temp_s.close();
       no_states++;
//Option 2
//Add Item
else if (option == 2)
  ifstream in_file("main_storage.txt", ios::binary);
  in_file.seekg(0, ios::end);
  int file_size = in_file.tellg();
  mainStorage object;
  int n;
  int no_items = file_size / sizeof(object);
  cout << "Enter number of items to be added:- ";</pre>
  cin >> n;
  for (int i = 0; i < n; i++)
     cout << "Sr. No. :- " << no_items + 1 << endl;
```

```
object.items.sr_no = no_items + 1;
cout << "Name :- ";
cin >> object.items.name;
cout << "Product Code:- ";</pre>
cin >> object.items.code;
object.items.quantity = 0;
object.items.limit = 0;
ofstream file1;
file1.open("main_storage.txt", ios::app);
file1.write((char *)&object, sizeof(object));
file1.close();
st S;
fstream all_states("states.txt");
all_states.seekg(0, ios::end);
int no_states = all_states.tellg() / sizeof(S);
all_states.seekg(0, ios::beg);
for (int i = 0; i < no_states; i++)
  all states.read((char *)&S, sizeof(S));
  char state_name[20];
  strcpy(state_name, S.s_name);
```

```
strcat(state_name, ".txt");
  ofstream fp(state_name, ios::app);
  st S1;
  S1.items.sr no = no items + 1;
  strcpy(S1.items.name, object.items.name);
  S1.items.quantity = 0;
  S1.items.limit = 0;
  S1.items.code = object.items.code;
  fp.write((char *)&S1, sizeof(S1));
  fp.close();
ofstream fp1("temp_s.txt", ios::app);
st S2;
S2.items.sr_no = no_items + 1;
strcpy(S2.items.name, object.items.name);
S2.items.quantity = 0;
S2.items.limit = 0;
S2.items.code = object.items.code;
fp1.write((char *)&S2, sizeof(S2));
fp1.close();
```

```
file1.close();
    ofstream fp2("temp_h.txt", ios::app);
    hos h2;
    h2.items.sr_no = no_items + 1;
    strcpy(h2.items.name, object.items.name);
    h2.items.quantity = 0;
    h2.items.limit = 0;
    h2.items.code = object.items.code;
    fp2.write((char *)&h2, sizeof(h2));
    fp2.close();
    file1.close();
    no_items++;
  cout << endl
     << endl
     << endl
     << "Items Added Successfully" << endl;
//Option 3
//Check Items
else if (option == 3)
```

```
mainStorage ms;
  ifstream file2;
  file2.open("main_storage.txt", ios::in);
  file2.seekg(0, ios::end);
  int file_size = file2.tellg();
  int n_items = file_size / sizeof(ms);
  file2.seekg(0, ios::beg);
  for (size_t i = 0; i < n_items; i++)
     file2.read((char *)&ms, sizeof(ms));
     cout << ms.items.sr_no << endl;</pre>
     cout << ms.items.name << endl;</pre>
     cout << ms.items.quantity << endl;</pre>
     cout << ms.items.limit << endl;</pre>
     cout << ms.items.code << endl
        << endl;
  file2.close();
//Option 4
//Delete Items
else if (option == 4)
  int i = 1;
```

```
fstream file2("main_storage.txt", ios::in);
fstream file3("dup.txt", ios::app);
mainStorage md;
long long n;
cout << "Enter the code of the product you want to delete : ";</pre>
cin >> n;
while (file2.read((char *)&md, sizeof(md)))
 if (n == md.items.code)
    continue;
  else
    md.items.sr_no = i;
    file3.write((char *)&md, sizeof(md));
  i++;
file2.close();
file3.close();
remove("main_storage.txt");
```

```
rename("dup.txt", "main_storage.txt");
fstream file1("temp_s.txt");
file2.open("dup1.txt", ios::app);
st sd;
i = 1;
while (file1.read((char *)&sd, sizeof(sd)))
  if (n == sd.items.code)
     continue;
  else
    sd.items.sr_no = i;
    file2.write((char *)&sd, sizeof(sd));
 i++;
file1.close();
file2.close();
remove("temp_s.txt");
rename("dup1.txt", "temp_s.txt");
```

```
file1.open("states.txt", ios::in);
file1.seekg(0, ios::end);
int no_states = file1.tellg() / sizeof(sd);
file1.seekg(0, ios::beg);
int j = 1;
for (i = 0; i < no_states; i++)
  file1.read((char *)&sd, sizeof(sd));
  char state_name[20];
  strcpy(state_name, sd.s_name);
  strcat(state_name, ".txt");
  fstream file2(state_name);
  st sdd;
  fstream file3("dup3.txt", ios::app);
  while (file2.read((char *)&sdd, sizeof(sdd)))
    if (n == sdd.items.code)
       continue;
    else
```

```
sdd.items.sr_no = j;
         file3.write((char *)&sdd, sizeof(sdd));
      j++;
     file2.close();
     file3.close();
     remove(state_name);
     rename("dup3.txt", state_name);
  file1.close();
//Option 5
//Change Items
else if (option == 5)
  int i = 1;
  char name[30];
  int code;
  fstream file2("main_storage.txt", ios::in);
  fstream file3("dup.txt", ios::app);
  mainStorage md;
  long long n;
```

```
cin >> n;
cout << "Enter the name of new product :- ";</pre>
cin >> name;
cout << "Enter the Product Code :- ";</pre>
cin >> code;
while (file2.read((char *)&md, sizeof(md)))
  if (n == md.items.code)
    md.items.sr_no = i;
    md.items.code = code;
    strcpy(md.items.name, name);
    md.items.quantity = 0;
    md.items.limit = 0;
    file3.write((char *)&md, sizeof(md));
  else
    md.items.sr_no = i;
    file3.write((char *)&md, sizeof(md));
```

cout << "Enter the code of the product you want to Update : ";</pre>

```
file2.close();
 file3.close();
 remove("main_storage.txt");
 rename("dup.txt", "main_storage.txt");
 fstream file1("temp_s.txt");
 file2.open("dup1.txt", ios::app);
 st sd;
i = 1;
 while (file1.read((char *)&sd, sizeof(sd)))
   if (n == sd.items.code)
     sd.items.sr_no = i;
     sd.items.code = code;
     strcpy(sd.items.name, name);
     sd.items.quantity = 0;
     sd.items.limit = 0;
     file2.write((char *)&sd, sizeof(sd));
else
```

```
sd.items.sr_no = i;
    file2.write((char *)&sd, sizeof(sd));
i++;
file1.close();
file2.close();
remove("temp_s.txt");
rename("dup1.txt", "temp_s.txt");
file1.open("states.txt", ios::in);
file1.seekg(0, ios::end);
int no_states = file1.tellg() / sizeof(sd);
file1.seekg(0, ios::beg);
int j = 1;
for (i = 0; i < no_states; i++)
  file1.read((char *)&sd, sizeof(sd));
  char state_name[20];
  strcpy(state_name, sd.s_name);
  strcat(state_name, ".txt");
  fstream file2(state_name);
```

```
st sdd;
fstream file3("dup3.txt", ios::app);
while (file2.read((char *)&sdd, sizeof(sdd)))
 if (n == sdd.items.code)
    sdd.items.sr_no = j;
    sdd.items.code = code;
    strcpy(sdd.items.name, name);
    sdd.items.quantity = 0;
    sdd.items.limit = 0;
    file3.write((char *)&sdd, sizeof(sdd));
  else
    sdd.items.sr_no = j;
    file3.write((char *)&sdd, sizeof(sdd));
 j++;
file2.close();
file3.close();
remove(state_name);
rename("dup3.txt", state_name);
```

```
file1.close();
//Option 6
//Check States
else if (option == 6)
  st S;
   fstream all_states("states.txt");
   all_states.seekg(0, ios::end);
   int no_states = all_states.tellg() / sizeof(S);
   all_states.seekg(0, ios::beg);
   for (int i = 0; i < no_states; i++)</pre>
     // S.sno=i;
     all_states.read((char *)&S, sizeof(S));
     cout << "S No. : " << i + 1 << endl;
     cout << "Name : " << S.s_name << endl;</pre>
   all_states.close();
//Option 7
//Add Wholesaler
else if (option == 7)
   wholesaler RT;
```

```
int n;
fstream in_file("wholesaler.txt");
cout << "Number of wholesalers you want to add :- ";</pre>
cin >> n;
in_file.seekg(0, ios::end);
int file_size = in_file.tellg();
int m = file_size / sizeof(RT);
// in_file.open("wholesaler.txt", ios::app);
for (int i = 0; i < n; i++)
  cout << "Enter the details of the wholesaler\n";</pre>
  cout << "S No. : " << m + 1 << endl;
  cout << "Name: ";
  cin >> RT.name;
  cout << "Rating out of 5 : ";</pre>
  cin >> RT.rating;
  cout << "Address : ";</pre>
  cin >> RT.address;
  char id[30] = "ID_";
  char pass[30] = "FEASO ";
```

```
strcat(id, RT.name);
      strcat(pass, RT.name);
      strcpy(RT.r_id, id);
      strcpy(RT.r_pass, pass);
      in_file.write((char *)&RT, sizeof(RT));
      cout << endl
         << endl
         << endl
         << endl
         << "Wholsaler " << RT.name << " Added With Login ID :- " << id << " and Password "
<< pass << endl
         << endl;
      m++;
    in_file.close();
 //Option 8
 //Check Wholesaler
 else if (option == 8)
    cout << "The wholesalers are\n";</pre>
    wholesaler R;
    fstream ret("wholesaler.txt");
    ret.seekg(0, ios::end);
    int no_states = ret.tellg() / sizeof(R);
```

```
for (int i = 0; i < no_states; i++)</pre>
    ret.read((char *)&R, sizeof(R));
    cout << "S No.: " << R.items.sr no << endl;</pre>
     cout << "Name : " << R.name << endl;
    cout << "Wholesaler ID : " << R.r_id << endl;</pre>
     cout << "Wholesaler address : " << R.address << endl;</pre>
     cout << "Wholesaler rating : " << R.rating << endl;</pre>
  ret.close();
//Option 9
//GOTO Login Page
else if (option == 9)
  main();
  return 0;
//Option 10
//Exit The system
else if (option == 10)
  system("cls");
  cout << "Thanks For Using";
```

ret.seekg(0, ios::beg);

```
return 0;
 //Defualt Option
  else
    system("cls");
    cout << "Wrong Entry \nTry again!";</pre>
    Sleep(2000);
    system("cls");
    admin();
menu2:
 cout << endl
    << endl
    << endl
    << endl
    << "Select The Appropriate option :- " << endl;
 cout << " 1.Back To Menu" << endl
    << " 2.Goto Login Page" << endl
    << " 3.EXIT" << endl
    << endl
    << "ENTER YOUR CHOICE :- ";
 int option2;
  cin >> option2;
 if (option2 == 1)
```

```
system("cls");
  admin();
  return 0;
else if (option2 == 2)
  system("cls");
  main();
  return 0;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return 0;
else
  system("cls");
  cout << "Wrong Entry \nTry again!";</pre>
  Sleep(2000);
  system("cls");
  goto menu2;
```

```
return 0;
//Function For Main Storage
int main storage()
  cout << "Welcome to Main Storage" << endl
     << endl;
  cout << "Please select an appropriate option:-" << endl</pre>
     << endl;
  cout << " 1.Display Stocks" << endl
    << " 2.Check Orders" << endl
    << " 3.Place Orders" << endl
    << " 4.Finalise Quotation" << endl
     << " 5.Recieve Order" << endl
    << " 6.Goto Login Page" << endl
    << " 7.Exit" << endl
    << endl
    << "Enter the required option:-";
  int option;
  cin >> option;
 //Option 1
 //Display Stocks
 if (option == 1)
    mainStorage ms;
```

```
file2.open("main_storage.txt", ios::in);
  file2.seekg(0, ios::end);
  int file size = file2.tellg();
  int n_items = file_size / sizeof(ms);
  file2.seekg(0, ios::beg);
  for (size_t i = 0; i < n_items; i++)
     file2.read((char *)&ms, sizeof(ms));
     cout << "Sr. No. :- " << ms.items.sr_no << endl;</pre>
     cout << "Product Name :- " << ms.items.name << endl;</pre>
     cout << "Quantity :- " << ms.items.quantity << endl;</pre>
     cout << "Product Code :- " << ms.items.code << endl
       << endl;
  file2.close();
//Option 2
//Check Order
else if (option == 2)
  st S;
  fstream all states("states.txt");
```

ifstream file2;

```
all_states.seekg(0, ios::end);
int no_states = all_states.tellg() / sizeof(S);
all_states.seekg(0, ios::beg);
for (int i = 0; i < no_states; i++)</pre>
  all_states.read((char *)&S, sizeof(S));
  char state_name[30];
  strcpy(state_name, S.s_name);
  strcat(state_name, ".txt");
  fstream file2(state_name);
  st state1;
  file2.seekg(0, ios::end);
  int file_size = file2.tellg();
  int n_items = file_size / sizeof(state1);
  file2.seekg(0, ios::beg);
  int test = 0;
  fstream file3("oc.txt", ios::app);
  for (int i = 0; i < n_items; i++)
```

```
if (state1.o == 1 && test == 0)
  cout << "S No. : " << i + 1 << endl;
  cout << "Name : " << S.s name << endl;</pre>
  test++;
if (state1.o == 1)
  cout << "Sr. No. :- " << state1.items.sr_no << endl;</pre>
  cout << "Product Name :- " << state1.items.name << endl;</pre>
  cout << "Quantity :- " << state1.items.order_quantity << endl;</pre>
  mainStorage ms;
  fstream fp("main_storage.txt");
  fstream temp("temp.txt", ios::app);
  fp.seekg(0, ios::end);
  int n = fp.tellg() / sizeof(ms);
  fp.seekg(0, ios::beg);
  cout << "Do you want to dispatch this order now? Y/N :- ";</pre>
  char C;
  cin >> C;
  if (C == 'Y')
```

file2.read((char *)&state1, sizeof(state1));

```
for (int i = 0; i < n; i++)
               fp.read((char *)&ms, sizeof(ms));
               if (strcmp(state1.items.name, ms.items.name) == 0)
                 ms.items.quantity = ms.items.quantity - state1.items.order quantity;
                 cout << "\n\nProduct :- " << state1.items.name << " With Quantity :- " <<
state1.items.order quantity << " Dispatched for " << state1.s name << endl;
               temp.write((char *)&ms, sizeof(ms));
             state1.o = 2;
          fp.close();
          temp.close();
          remove("main_storage.txt");
          rename("temp.txt", "main_storage.txt");
        file3.write((char *)&state1, sizeof(state1));
      file2.close();
      file3.close();
      remove(state_name);
      rename("oc.txt", state name);
    all_states.close();
```

```
//Option 3
//Place Order
else if (option == 3)
  mainStorage ms;
  ifstream file2;
  file2.open("main_storage.txt", ios::in);
  file2.seekg(0, ios::end);
  int file_size = file2.tellg();
  int n_items = file_size / sizeof(ms);
  file2.seekg(0, ios::beg);
  for (size_t i = 0; i < n_items; i++)
     file2.read((char *)&ms, sizeof(ms));
     cout << "Sr. No. :- " << ms.items.sr_no << endl;</pre>
     cout << "Product Name :- " << ms.items.name << endl;</pre>
     cout << "Product Code :- " << ms.items.code << endl
        << endl;
  cout << "Enter number of items to be ordered :- ";</pre>
  int n;
  cin >> n;
  for (int i = 0; i < n; i++)
    if (n_items == 0)
```

```
cout << "no items present";</pre>
  break;
int p code;
cout << "enter product code of the product:- ";</pre>
cin >> p_code;
order test;
fstream file3("order.txt");
file3.seekg(0, ios ::end);
int k = file3.tellg() / sizeof(test);
file3.close();
file2.seekg(0, ios::beg);
for (int j = 0; j < n_items; j++)
  file2.read((char *)&ms, sizeof(ms));
  if (p_code == ms.items.code)
    order odr;
    strcpy(odr.name, ms.items.name);
    cout << "enter Quantity :- ";</pre>
    int quantity;
    cin >> quantity;
```

```
odr.quantity = quantity;
         odr.sr_no = k + 1;
         fstream file3("order.txt", ios::app);
         file3.write((char *)&odr, sizeof(odr));
         file3.close();
         k++;
         cout << "\n\n
                            Your Order has been successfully placed\n";
  file2.close();
//Option 4
//Finalize Quatation
else if (option == 4)
  wholesaler rt;
  fstream file1("application_from_retailor.txt");
  file1.seekg(0, ios::end);
  int no_of_bids = file1.tellg() / sizeof(rt);
  file1.seekg(0, ios::beg);
  fstream file2("order.txt");
```

```
order odr;
file2.seekg(0, ios::end);
int file_size = file2.tellg();
int n_items = file_size / sizeof(odr);
file2.seekg(0, ios::beg);
cout << "Ref. No."
   << " "
   << "Name" << endl;
for (int i = 1; i <= n_items; i++)
  file2.read((char *)&odr, sizeof(odr));
  cout << odr.sr_no << ". " << odr.name << endl;</pre>
int n;
cout << "Enter number of items :- ";
cin >> n;
for (int k = 0; k < n; k++)
  cout << "Enter the Ref. No. of the item for which you want to Check the quotation :- ";
  int s_no;
  cin >> s_no;
```

```
cout
    << "Id of Wholesaler"
    << " "
    << "Item Name"
    << " "
    << "Total Price" << endl;
  file1.seekg(0, ios::beg);
  for (int i = 0; i < no_of_bids; i++)
    file1.read((char *)&rt, sizeof(rt));
    if (rt.items.sr_no == s_no)
       cout << rt.r_id << " " << rt.items.name << " " << rt.price << endl;</pre>
file2.close();
file1.close();
cout << "YOU Want to finalise a quotation ?"</pre>
   << "Enter Y for yes and N for no :- ";
char a;
cin >> a;
if (a == 'Y')
```

```
cout << "Enter the number of items you want to finalise :- ";</pre>
int z;
cin >> z;
for (int i = 0; i < z; i++)
  fstream file1("application_from_retailor.txt");
  fstream file2("order.txt");
  cout << "Enter the Ref. No. of the item you want to finalise :- ";
  int s1_no;
  cin >> s1_no;
  cout << "Enter the retailor ID you want to finalise :- ";</pre>
  char rid[30];
  cin >> rid;
  file1.seekg(0, ios::beg);
  cout << endl
     << endl
     << "Quotation is finalised successfully." << endl;
  fstream temp1("temp1.txt", ios::app);
  fstream temp2("temp2.txt", ios::app);
```

```
for (int I = 0; I < no_of_bids; I++)
  file1.read((char *)&rt, sizeof(rt));
  if (s1_no == rt.items.sr_no && strcmp(rid, rt.r_id) == 0)
    fstream file3("status.txt", ios::app);
    file3.write((char *)&rt, sizeof(rt));
    file3.close();
  if (s1_no != rt.items.sr_no)
    temp1.write((char *)&rt, sizeof(rt));
file2.seekg(0, ios::beg);
for (int I = 0; I < n_items; I++)
  file2.read((char *)&odr, sizeof(odr));
  if (odr.sr_no != s1_no)
    temp2.write((char *)&odr, sizeof(odr));
temp1.close();
temp2.close();
file2.close();
```

```
file1.close();
        remove("application_from_retailor.txt");
        rename("temp1.txt", "application_from_retailor.txt");
        remove("order.txt");
        rename("temp2.txt", "order.txt");
 //Option 5
 //Receive Order
 else if (option == 5)
    fstream file1("status.txt");
    wholesaler rt;
    file1.seekg(0, ios::end);
    int n o = file1.tellg() / sizeof(rt);
    file1.seekg(0, ios::beg);
    if (n_o != 0)
      cout << setw(4) << "Sr.No." << setw(10) << "Retailor Id" << setw(20) << "Name of
product" << setw(30) << "Quantity of Product" << endl;
    else
      cout << "NO items to recieve";
```

```
Sleep(1500);
      system("cls");
      main_storage();
      exit(0);
    for (int i = 0; i < n_0; i++)
      file1.read((char *)&rt, sizeof(rt));
      if (rt.cofirmation == 1)
        cout << setw(4) << i + 1 << setw(10) << rt.r_id << setw(20) << rt.items.name <<
setw(30) << rt.items.quantity << endl;
    file1.close();
    cout << "You want to recieve any order? Enter Y for yes and N for No:-";
    char a;
    cin >> a;
    if (a == 'N')
      main_storage();
      exit(0);
```

```
for (int i = 0; i < n_0; i++)
  cout << "Enter number of orders you want to recieve :- ";</pre>
  int orders;
  cin >> orders;
  for (int j = 0; j < orders; j++)
    fstream file1("status.txt");
    fstream temp1("temp1.txt", ios::app);
     cout << "Enter the serial number of order you want to recieve :- ";</pre>
    int sno;
     cin >> sno;
    file1.read((char *)&rt, sizeof(rt));
    if (sno == j + 1)
       mainStorage ms;
       fstream file2("main_storage.txt");
       file2.seekg(0, ios::end);
       int size_ms = file2.tellg() / sizeof(ms);
       file2.seekg(0, ios::beg);
```

```
fstream temp2("temp2.txt", ios::app);
  for (int k = 0; k < size_ms; k++)
    file2.read((char *)&ms, sizeof(ms));
    if (strcmp(rt.items.name, ms.items.name) == 0)
      ms.items.quantity = ms.items.quantity + rt.items.quantity;
      cout << "\n\n Ordered recieved successfully\n";</pre>
    temp2.write((char *)&ms, sizeof(ms));
  file2.close();
  temp2.close();
  remove("main_storage.txt");
  rename("temp2.txt", "main_storage.txt");
else
  temp1.write((char *)&rt, sizeof(rt));
file1.close();
temp1.close();
remove("status.txt");
rename("temp1.txt", "status.txt");
```

```
//Option 6
//GOTO Login Page
 else if (option == 6)
   system("cls");
   main();
   return 0;
//Option 7
//Exit
else if (option == 7)
   system("cls");
   cout << "Thanks For Using";</pre>
   return 0;
//Default Option
else
   system("cls");
   cout << "Wrong Entry" << endl
      << "Try again!";
```

```
Sleep(2000);
    system("cls");
    main_storage();
    return 0;
menu2:
 cout << endl
    << endl
    << endl
    << endl
    << "Select The Appropriate option :- " << endl;
  cout << " 1.Back To Menu" << endl
     << " 2.Goto Login Page" << endl
    << " 3.EXIT" << endl
    << endl
    << "ENTER YOUR CHOICE :- ";
 int option2;
 cin >> option2;
 if (option2 == 1)
    system("cls");
    main_storage();
    return 0;
```

```
else if (option2 == 2)
  system("cls");
  main();
 return 0;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return 0;
else
 system("cls");
  cout << "Wrong Entry" << endl
     << "Try again!";
  Sleep(2000);
  system("cls");
  goto menu2;
return 0;
```

```
//Function For State
int state(char *state)
menu:
  st state1;
  char state_name[30];
  strcpy(state_name, state);
  char s_name[20];
  char s1_name[20];
 strcpy(s_name, state_name);
  strcpy(s1_name, state_name);
  cout << "Welcome to " << state name << " Storage " << endl
    << endl;
  cout << "Please select an appropriate option:-" << endl</pre>
     << endl;
  cout << " 1.Display Stocks" << endl
    << " 2.Check Orders" << endl
    << " 3.Place Orders" << endl
    << " 4.Recieve Order" << endl
     << " 5.Add Hospital" << endl
    << " 6.Display Hospital" << endl
    << " 7.Goto Login Page" << endl
    << " 8.EXIT" << endl
     << endl
    << "Enter the required option:-";
```

```
strcat(state name, ".txt");
int option;
cin >> option;
//Option 1
//Display Stocks
if (option == 1)
  fstream file2(state_name);
  file2.seekg(0, ios::end);
  int file_size = file2.tellg();
  int n_items = file_size / sizeof(state1);
  file2.seekg(0, ios::beg);
  for (int i = 0; i < n_items; i++)
     file2.read((char *)&state1, sizeof(state1));
     cout << "Sr. No. :- " << state1.items.sr_no << endl;</pre>
     cout << "Product Name :- " << state1.items.name << endl;</pre>
     cout << "Quantity :- " << state1.items.quantity << endl;</pre>
     cout << "Product Code :- " << state1.items.code << endl
        << endl;
  file2.close();
```

//Option 2

```
//Check Order
else if (option == 2)
  hos h1, h2;
  fstream file11("order_h.txt");
  file11.seekg(0, ios::end);
  int n_o = file11.tellg() / sizeof(h1);
  file11.seekg(0, ios::beg);
  cout << "Enter the region for which you want to check the order :- ";</pre>
  char r_name[30];
  cin >> r_name;
  fstream fp("temp_h.txt");
  fp.seekg(0, ios::end);
  int n_i = fp.tellg() / sizeof(h2);
  fp.seekg(0, ios::beg);
  int order[n_i];
  for (int i = 0; i < n_i; i++)
    order[i] = 0;
  for (int i = 0; i < n_0; i++)
    file11.read((char *)&h1, sizeof(h1));
```

```
if (strcmp(s_name, h1.s_name) == 0 \&\& strcmp(r_name, h1.r_name) == 0 \&\& h1.o == 0)
    fp.seekg(0, ios::beg);
    for (int j = 0; j < n_i; j++)
       fp.read((char *)&h2, sizeof(h2));
       if (strcmp(h1.items.name, h2.items.name) == 0)
         order[h2.items.sr_no - 1] = order[h2.items.sr_no - 1] + h1.items.order_quantity;
         break;
for (int i = 0; i < n_i; i++)
  if (order[i] == 0)
    continue;
  fp.seekg(0, ios::beg);
  for (int j = 0; j < n_i; j++)
    fp.read((char *)&h2, sizeof(h2));
    if (h2.items.sr no == i + 1)
       cout << "Product Name :- " << h2.items.name << endl;</pre>
```

```
cout << "Quantity :- " << order[i] << endl
          << endl;
file11.close();
cout << "Do you want to dispatch any order ? Y/N :- ";</pre>
char c;
cin >> c;
if (c == 'Y')
  cout << "How many orders you want to Dispatch :- ";</pre>
  int n;
  cin >> n;
  for (int i = 0; i < n; i++)
    file11.seekg(0, ios::beg);
     cout << "Enter the name of the product you want to dispatch :- ";</pre>
     char i_name[20];
     cin >> i_name;
    st st1;
```

```
fstream store(state name);
        fstream temp("temp.txt", ios::app);
        store.seekg(0, ios::end);
        int size = store.tellg() / sizeof(st1);
        store.seekg(0, ios::beg);
        for (int j = 0; j < size; j++)
           store.read((char *)&st1, sizeof(st1));
          if (strcmp(st1.items.name, i_name) == 0)
             st1.items.quantity = st1.items.quantity - order[st1.items.sr no - 1];
             cout << "\n\nProduct :-" << st1.items.name << " with quantity :- " <<
order[st1.items.sr no - 1] << " Dispatched" << endl;
           temp.write((char *)&st1, sizeof(st1));
        store.close();
        temp.close();
         remove(state_name);
         rename("temp.txt", state_name);
         fstream file("order_h.txt");
         fstream temp2("temp2.txt", ios::app);
        for (int i = 0; i < n_o; i++)
```

```
file.read((char *)&h1, sizeof(h1));
         if (strcmp(s_name, h1.s_name) == 0 && strcmp(r_name, h1.r_name) == 0)
           if (strcmp(h1.items.name, i_name) == 0)
             h1.o = 1;
         temp2.write((char *)&h1, sizeof(h1));
      file.close();
      temp2.close();
       remove("order_h.txt");
       rename("temp2.txt", "order_h.txt");
//Option 3
//Place Order
else if (option == 3)
  st ss;
  ifstream file2;
  file2.open(state_name, ios::in);
  file2.seekg(0, ios::end);
```

```
int file_size = file2.tellg();
 int n_items = file_size / sizeof(ss);
 file2.seekg(0, ios::beg);
 int items = 0;
 for (size_t i = 0; i < n_items; i++)
if (ss.o == 0)
     file2.read((char *)&ss, sizeof(ss));
      cout << "Sr. No. :- " << ss.items.sr_no << endl;
      cout << "Product Name :- " << ss.items.name << endl;</pre>
      cout << "Product Code :- " << ss.items.code << endl
         << endl;
     items++;
 file2.close();
 if (items > 0)
   cout << "Enter number of items to be ordered :- ";</pre>
   int n;
   cin >> n;
for (int i = 0; i < n; i++)
```

```
fstream file2(state_name);
if (n_items == 0)
  cout << "no items present";</pre>
  break;
int p_code;
cout << "enter product code of the product:-";</pre>
cin >> p_code;
fstream file3("s1.txt", ios::app);
file2.seekg(0, ios::beg);
for (int j = 0; j < n_items; j++)
  file2.read((char *)&ss, sizeof(ss));
  if (p_code == ss.items.code)
    cout << "enter Quantity :- ";</pre>
    int quantity;
     cin >> quantity;
    ss.items.order_quantity = quantity;
    ss.o = 1;
    cout << "\n\n
                         Order Placed Successfully";
```

```
file3.write((char *)&ss, sizeof(ss));
      file3.close();
      file2.close();
      remove(state_name);
       rename("s1.txt", state_name);
//Option 4
//Receive Order
else if (option == 4)
  fstream file2(state_name);
  st state1;
  file2.seekg(0, ios::end);
  int file_size = file2.tellg();
  int n_items = file_size / sizeof(state1);
  file2.seekg(0, ios::beg);
  fstream file3("oc.txt", ios::app);
  for (int i = 0; i < n_items; i++)
    file2.read((char *)&state1, sizeof(state1));
```

```
if (state1.o == 2)
    cout << state1.items.sr_no << endl;</pre>
    cout << state1.items.name << endl;</pre>
    cout << state1.items.order quantity << endl;</pre>
    cout << "Do you want to Recieve this order now? Y/N :- ";
    char C;
    cin >> C;
    if (C == 'Y')
      state1.o = 0;
      state1.items.quantity = state1.items.quantity + state1.items.order_quantity;
      state1.items.order_quantity = 0;
      cout << "\n\n\n
                              Order Recieved Successfully\n";
  file3.write((char *)&state1, sizeof(state1));
file2.close();
file3.close();
remove(state_name);
rename("oc.txt", state_name);
```

```
//Option 5
//Add Hospital
else if (option == 5)
  hos h;
  fstream fp2("hospitals.txt");
  fp2.seekg(0, ios::end);
  int n = fp2.tellg() / sizeof(h);
  fp2.seekg(0, ios::beg);
  int q[4] = \{0, 0, 0, 0\};
  for (int i = 0; i < n; i++)
     fp2.read((char *)&h, sizeof(h));
     if (strcmp(h.r_name, "North") == 0)
      q[0]++;
    if (strcmp(h.r_name, "South") == 0)
       q[1]++;
    if (strcmp(h.r_name, "East") == 0)
       q[2]++;
```

```
if (strcmp(h.r_name, "West") == 0)
q[3]++;
  fp2.close();
  fstream fp1("hospitals.txt", ios::app);
  cout << " 1. North \n 2. South \n 3. East \n 4. West \n ";
restart:
  cout << "Slect the region of hospitals you want to add :- ";</pre>
  int r;
  cin >> r;
  char r_n[4];
  if (r == 1)
    strcpy(h.r_name, "North");
    strcpy(r_n, "-N-");
  else if (r == 2)
    strcpy(h.r_name, "South");
    strcpy(r_n, "-S-");
```

```
else if (r == 3)
  strcpy(h.r_name, "East");
  strcpy(r_n, "-E-");
else if (r == 4)
  strcpy(h.r_name, "West");
  strcpy(r_n, "-W-");
else
  cout << "Wrong input Try again.";
  goto restart;
cout << "Enter number of hospitals you want to add in above mentioned region :- ";</pre>
int n_hos;
cin >> n_hos;
for (int i = 0; i < n_hos; i++)
  cout << "Sr. no :- " << q[r - 1] + 1 << endl;
  cout << "Hospital Name :- ";
  cin >> h.h_name;
```

```
int a = q[r - 1] + 1;
stringstream w;
w << a;
char x[10];
w >> x;
char str[20];
strcpy(str, s1_name);
strcat(str, r_n);
strcat(str, x);
strcpy(h.h_id, str);
q[r - 1]++;
strcpy(h.s_name, s_name);
char pass[30] = "FEASO_";
strcat(pass, h.h_name);
strcpy(h.h_pass, pass);
fp1.write((char *)&h, sizeof(h));
char f_name[20];
strcpy(f_name, h.h_name);
strcat(f_name, ".txt");
ofstream S1(f_name);
fstream temp_h("temp_h.txt");
```

```
if (temp_h && S1)
        string line;
         while (getline(temp_h, line))
           S1 << line;
        S1.close();
         temp_h.close();
      cout << "\n\nYour Id Generated for hospital " << h.h_name << " is :- " << h.h_id <<
endl;
      cout << "Password :- " << h.h_pass << endl;</pre>
 //Option 6
  //Display Hospital
  else if (option == 6)
    fstream fp1(s_name);
    hos h;
    fp1.seekg(0, ios::end);
    int n = fp1.tellg() / sizeof(h);
    fp1.seekg(0, ios::beg);
```

```
int q = 1;
// stringstream w;
// w >> q;
// char x[10];
// w << x;
// char str[20];
// strcpy(str, s_name);
// strcat(str, "ON");
// strcat(str, x);
cout << "North \n";</pre>
for (int i = 0; i < n; i++)
  fp1.read((char *)&h, sizeof(h));
  if (strcmp(h.r_name, "North") == 0)
     cout << "Sr. no :- " << q << endl;
     cout << "Hospital Name :- ";
     cout << h.h_name << " " << h.h_id << endl;
     q++;
  if (i == n - 1 \&\& q == 1)
     cout << "No Hospitals\n";</pre>
```

```
fp1.seekg(0, ios::beg);
 q = 1;
 cout << "South \n";</pre>
 for (int i = 0; i < n; i++)
    fp1.read((char *)&h, sizeof(h));
    if (strcmp(h.r_name, "South") == 0)
      cout << "Sr. no :- " << q << endl;
      cout << "Hospital Name :- ";
      cout << h.h_name << endl;</pre>
      q++;
if (i == n - 1 && q == 1)
     cout << "No Hospitals\n";</pre>
 fp1.seekg(0, ios::beg);
 q = 1;
```

```
cout << "East \n";
for (int i = 0; i < n; i++)
   fp1.read((char *)&h, sizeof(h));
   if (strcmp(h.r_name, "East") == 0)
      cout << "Sr. no :- " << q << endl;
     cout << "Hospital Name :- ";</pre>
     cout << h.h_name << endl;</pre>
     q++;
if (i == n - 1 && q == 1)
     cout << "No Hospitals\n";</pre>
fp1.seekg(0, ios::beg);
q = 1;
cout << "West \n";</pre>
for (int i = 0; i < n; i++)
   fp1.read((char *)&h, sizeof(h));
```

```
if (strcmp(h.r_name, "West") == 0)
       cout << "Sr. no :- " << q << endl;
       cout << "Hospital Name :- ";</pre>
       cout << h.h_name << endl;</pre>
       q++;
    if (i == n - 1 && q == 1)
       cout << "No Hospitals\n";</pre>
  fp1.close();
//Option 7
//GOTO Login page
else if (option == 7)
  system("cls");
  main();
  return 0;
//Option 8
```

```
//Exit
  else if (option == 8)
    system("cls");
    cout << "Thanks For Using";</pre>
    return 0;
  //Default Option
  else
    system("cls");
    cout << "Wrong Entry \nTry again!";</pre>
    Sleep(2000);
    system("cls");
    goto menu;
menu2:
  cout << endl
    << endl
    << endl
    << endl
     << "Select The Appropriate option :-" << endl;
  cout << " 1.Back To Menu" << endl
     << " 2.Goto Login Page" << endl
```

```
<< " 3.EXIT" << endl
  << endl
  << "ENTER YOUR CHOICE :- ";
int option2;
cin >> option2;
if (option2 == 1)
  system("cls");
  goto menu;
  return 0;
else if (option2 == 2)
  system("cls");
  main();
  return 0;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return 0;
else
```

```
system("cls");
    cout << "Wrong Entry \nTry again!";</pre>
    Sleep(2000);
    system("cls");
    goto menu2;
  return 0;
//Function for Region
int region()
menu:
  fstream file("hospitals.txt");
  hos h;
  file.seekg(0, ios::end);
  int n = file.tellg() / sizeof(h);
  file.seekg(0, ios::beg);
  cout << "Enter the State Name:- ";</pre>
  char state[30];
  cin >> state;
  int k = 1;
```

```
cout << "\n\nNorth Region:-\n";</pre>
for (int i = 0; i < n; i++)
  file.read((char *)&h, sizeof(h));
  if (strcmp(state, h.s_name) == 0 && strcmp("North", h.r_name) == 0)
    cout << k << ". " << h.h_name << endl;
    k++;
if (k == 1)
  cout << " No Hospitals";</pre>
cout << "\n\nSouth Region:-\n";</pre>
k = 1;
file.seekg(0, ios::beg);
for (int i = 0; i < n; i++)
  file.read((char *)&h, sizeof(h));
  if (strcmp(state, h.s_name) == 0 && strcmp("South", h.r_name) == 0)
    cout << k << ". " << h.h_name << endl;
```

```
k++;
if (k == 1)
  cout << " No Hospitals";</pre>
cout << "\n\nEast Region:-\n";</pre>
k = 1;
file.seekg(0, ios::beg);
for (int i = 0; i < n; i++)
  file.read((char *)&h, sizeof(h));
  if (strcmp(state, h.s_name) == 0 && strcmp("East", h.r_name) == 0)
     cout << k << ". " << h.h_name << endl;
     k++;
if (k == 1)
  cout << " No Hospitals";</pre>
cout << "\n\nWest Region:-\n";</pre>
```

```
file.seekg(0, ios::beg);
  for (int i = 0; i < n; i++)
    file.read((char *)&h, sizeof(h));
    if (strcmp(state, h.s_name) == 0 && strcmp("West", h.r_name) == 0)
      cout << k << ". " << h.h_name << endl;
      k++;
 if (k == 1)
    cout << " No Hospitals";</pre>
menu2:
  cout << endl
     << endl
    << endl
    << endl
     << "Select The Appropriate option :- " << endl;
  cout << " 1.Back To Menu" << endl
     << " 2.Goto Login Page" << endl
     << " 3.EXIT" << endl
     << endl
    << "ENTER YOUR CHOICE :- ";
```

k = 1;

```
int option2;
cin >> option2;
if (option2 == 1)
  system("cls");
  goto menu;
  return 0;
else if (option2 == 2)
  system("cls");
  main();
  return 0;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return 0;
else
  system("cls");
  cout << "Wrong Entry \nTry again!";</pre>
  Sleep(2000);
```

```
system("cls");
    goto menu2;
//Function for Hospital
int hospital(char *ID)
menu:
  int keydec = 0;
  hos current_hos;
  char id[20];
  char name[20];
  strcpy(id, ID);
  int k = 0;
  fstream file("hospitals.txt");
  for (int i = 0; !file.eof(); i++)
    file.read((char *)&current_hos, sizeof(current_hos));
    if (strcmp(current_hos.h_id, id) == 0)
      k = 1;
      break;
```

```
if (k == 0)
  return 0;
cout << "Welcome to " << current_hos.h_name << " Hospital" << endl</pre>
   << endl
   << endl;
strcpy(name, current_hos.h_name);
strcat(name, ".txt");
cout << "Select an appropriate option\n\n";</pre>
cout << " 1.Display Stocks" << endl
   << " 2.Place Order" << endl
   << " 3.Recieve Order " << endl
  << " 4.Goto Login Page" << endl
   << " 5.EXIT" << endl
   << endl
   << "Enter the required option:- ";
int option;
cin >> option;
//Option 1
//Display Stocks
if (option == 1)
  hos h;
  fstream file1(name);
```

```
file1.seekg(0, ios::end);
   int n_i = file1.tellg() / sizeof(h);
    file1.seekg(0, ios::beg);
   for (int i = 0; i < n_i; i++)
     if (keydec == 0)
        cout << left
           << setw(10) << "Ref. No."
           << "|" << left << setw(25) << "Product Name"
           << "|" << left << setw(15) << "Quantity"
           << "|"
           << "\n";
        cout << "-----|-----|;;
        cout << "\n";
      keydec++;
      file1.read((char *)&h, sizeof(h));
      cout << left
         << setw(10) << h.items.sr_no << "|" << left << setw(25) << h.items.name << "|" <<
left << setw(15) << h.items.quantity << "|"
        << "\n";
```

//Option2

```
//Place Order
  else if (option == 2)
    hos h;
    fstream file1(name);
    file1.seekg(0, ios::end);
    int n_i = file1.tellg() / sizeof(h);
    file1.seekg(0, ios::beg);
    for (int i = 0; i < n_i; i++)
      if (keydec == 0)
        cout << left
           << setw(10) << "Ref. No."
           << "|" << left << setw(25) << "Product Name"
           << "|" << left << setw(15) << "Quantity"
           << "|"
           << "\n";
         cout << "-----|--
         cout << "\n";
      keydec++;
      file1.read((char *)&h, sizeof(h));
      cout << left
         << setw(10) << h.items.sr no << "|" << left << setw(25) << h.items.name << "|" <<
left << setw(15) << h.items.guantity << "|"
         << "\n";
```

```
fstream file3("order_h.txt", ios::app);
int n;
cout << "Enter number of items to be ordered :- ";</pre>
cin >> n;
for (int i = 0; i < n; i++)
  cout << "Enter the refrence number of product :- ";</pre>
  int x;
  cin >> x;
  file1.seekg(0, ios::beg);
  for (int j = 0; j < n_i; j++)
    file1.read((char *)&h, sizeof(h));
    if (x == h.items.sr no)
       cout << "Product Name :- " << h.items.name << endl;</pre>
       cout << "Enter quantity :- ";</pre>
       cin >> h.items.order_quantity;
       strcpy(h.s name, current hos.s name);
       strcpy(h.r_name, current_hos.r_name);
       file3.write((char *)&h, sizeof(h));
```

```
cout << "\n\n\n
                                     Order Placed Successfully\n";
    file3.close();
    file1.close();
 //Option 3
 //Receive Order
  else if (option == 3)
    hos h;
    fstream file4("order_h.txt");
    file4.seekg(0, ios::end);
    int n_o = file4.tellg() / sizeof(current_hos);
    file4.seekg(0, ios::beg);
    fstream temp2("temp2.txt", ios::app);
    for (int i = 0; i < n_0; i++)
      file4.read((char *)&h, sizeof(h));
      if (strcmp(current hos.s name, h.s name) == 0 && strcmp(current hos.r name,
h.r name) == 0 \&\& h.o == 1 \&\& strcmp(current hos.h name, h.h name) == 0
        cout << h.items.name << " " << h.items.order quantity << endl;</pre>
```

```
cout << "Do you want to recieve this order ? Y/N :- ";
char c;
cin >> c;
if (c == 'Y')
  hos h1;
  fstream s(name);
  fstream temp1("temp1.txt", ios::app);
  s.seekg(0, ios::end);
  int n_i = s.tellg() / sizeof(h1);
  s.seekg(0, ios::beg);
  for (int j = 0; j < n_i; j++)
    s.read((char *)&h1, sizeof(h1));
    if (strcmp(h1.items.name, h.items.name) == 0)
       h1.items.quantity = h1.items.quantity + h.items.order_quantity;
       cout << endl
          << endl
         << endl
         << "Order Recieved Successfully" << endl;
    temp1.write((char *)&h1, sizeof(h1));
```

```
temp1.close();
        s.close();
        remove(name);
         rename("temp1.txt", name);
        continue;
    temp2.write((char *)&h, sizeof(h));
  temp2.close();
  file4.close();
  remove("order_h.txt");
  rename("temp2.txt", "order_h.txt");
//Option 4
//GOTO Login Page
else if (option == 4)
  system("cls");
  main();
  return 0;
else if (option == 3)
```

```
system("cls");
    cout << "Thanks For Using";</pre>
    return 0;
 else
    system("cls");
    cout << "Wrong Entry \nTry again!";</pre>
    Sleep(2000);
    system("cls");
    goto menu;
menu2:
  cout << endl
    << endl
    << endl
    << endl
    << "Select The Appropriate option :- " << endl;
  cout << " 1.Back To Menu" << endl
    << " 2.Goto Login Page" << endl
    << " 3.EXIT" << endl
    << endl
    << "ENTER YOUR CHOICE :- ";
 int option2;
```

```
cin >> option2;
if (option2 == 1)
  system("cls");
  goto menu;
  return 0;
else if (option2 == 2)
  system("cls");
  main();
  return 0;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return 0;
else
  system("cls");
  cout << "Wrong Entry \nTry again!";</pre>
  Sleep(2000);
```

```
system("cls");
    goto menu2;
//Function for Wholesaler
void w_saler(char *name, char *id, int rating)
menu:
  char sr_no[30];
  strcpy(sr_no, id);
  system("cls");
  int option;
  cout << endl
     << "Welcome " << name << " to quotation portal" << endl;
  cout << "Your Rating is :- " << rating << endl;</pre>
  cout << "Select an appropriate option" << endl</pre>
     << endl
     << endl;
  cout << " 1.To add your quotation" << endl
     << " 2.Status of quotation" << endl
     << " 3.Dispatch Order" << endl
     << " 4.Goto Login Page" << endl
     << " 5.EXIT" << endl
     << endl
     << "Enter the required option:- ";
```

```
cin >> option;
//Option 1
//Add Quotation
if (option == 1)
  fstream file1("order.txt");
  order odr;
  file1.seekg(0, ios::end);
  int file_size = file1.tellg();
  int n_items = file_size / sizeof(odr);
  file1.seekg(0, ios::beg);
  cout << "Sr. No."
     << " "
     << "Name"
     << " "
     << "Quantity" << endl;
  for (int i = 1; i <= n_items; i++)
     file1.read((char *)&odr, sizeof(odr));
     cout << i << ". " << odr.name << " " << odr.quantity << endl;
  cout << "If you can fullfill all the order then only fill the form!!!" << endl;
  cout << "Enter the number of items you can supply :- ";</pre>
```

```
int n;
cin >> n;
for (int i = 0; i < n; i++)
  cout << "Enter the serial number of product :- ";</pre>
  int a;
  cin >> a;
  file1.seekg(0, ios::beg);
  for (int j = 1; j <= n_items; j++)
    file1.read((char *)&odr, sizeof(odr));
    if (a == j)
       wholesaler rt;
       cout << "product :- " << odr.name << endl;</pre>
       strcpy(rt.items.name, odr.name);
       // cout << "enter quantity :- ";
       // cin >> rt.items.quantity;
       cout << "enter price of one piece :- ";</pre>
       int price_of_one;
       cin >> price_of_one;
```

```
int price = price_of_one * odr.quantity;
         cout << "Percentage discount you will give :- ";</pre>
         int discount;
         cin >> discount;
         price = price - (price * discount / 100);
         cout << "Total :- " << price << endl;
         rt.price = price;
         strcpy(rt.r_id, sr_no);
         rt.items.sr_no = odr.sr_no;
         rt.items.quantity = odr.quantity;
         fstream file2("application_from_retailor.txt", ios ::app);
         file2.write((char *)&rt, sizeof(rt));
         file2.close();
         cout << "\n\nQuotation Added Successfully\n";</pre>
  file1.close();
//Option 2
//Status Of Quotation
else if (option == 2)
```

```
wholesaler rt;
fstream file1("status.txt");
int count = 0;
file1.seekg(0, ios::end);
int n = file1.tellg() / sizeof(rt);
file1.seekg(0, ios::beg);
for (int i = 1; i <= n; i++)
  file1.read((char *)&rt, sizeof(rt));
  if (strcmp(sr_no, rt.r_id) == 0 && count == 0 && rt.cofirmation == 0)
    cout << "your quotation for following items is selected :- " << endl
       << endl;
    cout << "SR. NO.
                         NAME
                                     Quantity" << endl;
  if (strcmp(sr_no, rt.r_id) == 0 && rt.cofirmation == 0)
    cout << i << " " << rt.items.name << " " << rt.items.quantity << endl;
    count++;
if (count == 0)
  cout << endl
     << "No order is pending";
```

```
file1.close();
//Option 3
//Dispatch Order
else if (option == 3)
  wholesaler rt;
  fstream file1("status.txt");
  int count = 0;
  file1.seekg(0, ios::end);
  int n = file1.tellg() / sizeof(rt);
  file1.seekg(0, ios::beg);
  for (int i = 1; i <= n; i++)
     file1.read((char *)&rt, sizeof(rt));
     if (strcmp(sr_no, rt.r_id) == 0 && count == 0 && rt.cofirmation == 0)
       cout << "your quotation for following items is selected :- " << endl
          << endl;
                                        Quantity" << endl;
       cout << "SR. NO.
                            NAME
    if (strcmp(sr_no, rt.r_id) == 0 && rt.cofirmation == 0)
```

```
cout << i << " " << rt.items.name << " " << rt.items.quantity << endl;
     count++;
if (count == 0)
   cout << "No Order to Dispatch";</pre>
   file1.close();
   Sleep(1500);
   goto menu;
 cout << "Enter the number of orders you want to dispatch :- ";</pre>
int q;
 cin >> q;
fstream temp("temp.txt", ios::app);
 file1.seekg(0, ios::beg);
for (int i = 0; i < q; i++)
   file1.read((char *)&rt, sizeof(rt));
   cout << "Enter the Sr. No. of the order you want to dispatch :- ";</pre>
   int s_no;
   cin >> s_no;
   for (int j = 1; j \le n; j++)
```

```
if (strcmp(sr_no, rt.r_id) == 0 && rt.cofirmation == 0 && s_no == j)
           cout << "\n\nProduct :-" << rt.items.name << " with quantity :- " <<
rt.items.quantity << " Dispatched" << endl;
          rt.cofirmation = 1;
      temp.write((char *)&rt, sizeof(rt));
    file1.close();
    temp.close();
    remove("status.txt");
    rename("temp.txt", "status.txt");
 //Option 4
 //GOTO Login Page
 else if (option == 4)
    system("cls");
    main();
    return;
```

```
//Option 5
  //Exit
  else if (option == 5)
    system("cls");
    cout << "Thanks For Using";</pre>
    return;
  //Default Option
  else
    system("cls");
    cout << "Wrong Entry \nTry again!";</pre>
    Sleep(2000);
    system("cls");
    goto menu;
menu2:
  cout << endl
    << endl
    << endl
    << endl
     << "Select The Appropriate option :- " << endl;
  cout << " 1.Back To Menu" << endl
    << " 2.Goto Login Page" << endl
     << " 3.EXIT" << endl
```

```
<< endl
   << "ENTER YOUR CHOICE :- ";
int option2;
cin >> option2;
if (option2 == 1)
  system("cls");
  goto menu;
  return;
else if (option2 == 2)
  system("cls");
  main();
  return;
else if (option2 == 3)
  system("cls");
  cout << "Thanks For Using";</pre>
  return;
else
  system("cls");
  cout << "Wrong Entry \nTry again!";</pre>
```

```
Sleep(2000);
   system("cls");
   goto menu2;
//Main Function
int main()
 system("cls");
  cout << "Welcome To FEASOMED" << endl
    << endl;
 cout << "LOGIN AS :-" << endl
    << " 1.ADMIN" << endl
    << " 2.MAIN STORAGE" << endl
    << " 3.STATE" << endl
    << " 4.REGION" << endl
    << " 5.HOSPITAL " << endl
    << " 6.WHOLESALER" << endl
    << endl
    << "ENTER THE NUMBER OF YOUR DESIGNATION : -";
 int login;
 cin >> login;
  //Option 1
```

```
//Admin Option
if (login == 1)
  //Login ID and Password Admin
  Login pass("Ladmin", "Padmin");
  system("cls");
admin:
  char a[30];
  char b[30];
  cout << endl
     << "Enter Login Id :- ";
  cin >> a;
  cout << endl
     << "Enter Password :- ";
  char c;
  for (int i = 0; i < 30; i++)
    c = getch();
    if (c == 13)
      b[i] = '\0';
      break;
    b[i] = c;
    cout << '*';
```

```
if (pass.check(a, b))
    system("cls");
    admin();
  else
    cout << endl
       << endl
       << " Login ID or password is incorrect! Try Again " << endl
       << endl;
    goto admin;
//Option 2
//Main Storage Option
else if (login == 2)
  //Login ID and Password Main Storage
  Login Imain("Lmain", "Pmain");
  system("cls");
m s:
  char a[30];
  char b[30];
```

```
cout << endl
   << "Enter Login Id :- ";
cin >> a;
cout << endl
   << "Enter Password :- ";
char c;
for (int i = 0; i < 30; i++)
c = getch();
  if (c == 13)
     b[i] = '\0';
     break;
b[i] = c;
   cout << '*';
if (lmain.check(a, b))
   system("cls");
   main_storage();
else
   cout << "\n\nLogin ID or password is incorrect ! Try Again\n\n";</pre>
   goto m_s;
```

```
//Option 3
//State Option
else if (login == 3)
  system("cls");
s_s:
  char login1[30];
  char name[30];
  char pass1[30];
  char pass2[30];
  cout << endl
     << "Enter Login Id :- ";
  cin >> login1;
  fstream file("states.txt");
  st st1;
  file.seekg(0, ios::end);
  int n = file.tellg() / sizeof(st1);
  file.seekg(0, ios::beg);
  for (int i = 0; i < n; i++)
```

```
file.read((char *)&st1, sizeof(st1));
  if (strcmp(st1.s_id, login1) == 0)
    strcpy(pass1, st1.s_pass);
    strcpy(name, st1.s_name);
    break;
Login lstate(login1, pass1);
cout << endl
  << "Enter Password :- ";
char c;
for (int i = 0; i < 30; i++)
  c = getch();
 if (c == 13)
    pass2[i] = '\0';
    break;
  pass2[i] = c;
  cout << '*';
if (lstate.check(login1, pass2))
```

```
system("cls");
    state(name);
  else
    cout << endl
       << endl
       << "Login ID or password is incorrect! Try Again" << endl
       << endl;
    goto s_s;
//Option 4
//Region Option
else if (login == 4)
  system("cls");
  region();
//Option 5
//Hospital Option
else if (login == 5)
  system("cls");
```

h_s:

```
char login1[30];
char name[30];
char pass1[30];
char pass2[30];
cout << endl
   << "Enter Login Id :- ";
cin >> login1;
fstream file("hospitals.txt");
hos h1;
file.seekg(0, ios::end);
int n = file.tellg() / sizeof(h1);
file.seekg(0, ios::beg);
for (int i = 0; i < n; i++)
  file.read((char *)&h1, sizeof(h1));
  if (strcmp(h1.h_id, login1) == 0)
    strcpy(pass1, h1.h_pass);
    strcpy(name, h1.h_name);
    break;
```

```
Login lhos(login1, pass1);
cout << endl
  << "Enter Password :- ";
char c;
for (int i = 0; i < 30; i++)
  c = getch();
 if (c == 13)
    pass2[i] = '\0';
    break;
 pass2[i] = c;
  cout << '*';
if (lhos.check(login1, pass2))
  system("cls");
  hospital(login1);
else
  cout << endl
     << endl
     << "Login ID or password is incorrect! Try Again" << endl
```

```
<< endl;
goto h_s;
//Option 6
//Wholesaler Option
else if (login == 6)
  system("cls");
h_w:
  char login1[30];
  char name[30];
  char pass1[30];
  char pass2[30];
  cout << endl
     << "Enter Login Id :- ";
  cin >> login1;
  fstream file("wholesaler.txt");
  wholesaler h1;
  file.seekg(0, ios::end);
  int n = file.tellg() / sizeof(h1);
```

```
file.seekg(0, ios::beg);
int rating;
for (int i = 0; i < n; i++)
  file.read((char *)&h1, sizeof(h1));
  if (strcmp(h1.r_id, login1) == 0)
    strcpy(pass1, h1.r_pass);
    strcpy(name, h1.name);
    rating = h1.rating;
    break;
Login lwh(login1, pass1);
cout << endl
  << "Enter Password :- ";
char c;
for (int i = 0; i < 30; i++)
  c = getch();
  if (c == 13)
    pass2[i] = '\0';
    break;
```

```
pass2[i] = c;
    cout << '*';
  if (lwh.check(login1, pass2))
    system("cls");
    w_saler(name, login1, rating);
  else
    cout << endl
       << endl
       << "Login ID or password is incorrect! Try Again" << endl
       << endl;
    goto h_w;
else
  cout << endl
    << endl
     << "enter a valid option" << endl
    << endl;
  main();
return 0;
```

//End of Code

//Thank You