Logo

Description automatically generated

               Inventory management system

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**INTRODUCTION**

Markets are the place where people exchange, buy or sell their necessary goods this is happening since the start of the world. People buy and sell goods to other people and particular location for that is market. when a market is made the owner keep a track of his stock. Whereas, it can also be used in our daily life to keep a track of our Groceries.

**Problem Statement:**

The method that the owner used to keep track was either to recount the stock or by writing down the record in a register and in paper forms but there was a problem that space was required to store these paper works and there was a threat that due to any uncertain event all the data might be lost.

**Solution:**

With this application seller can keep a track of his stock all year long!! All his data would be safe and he can access it anywhere. With live tracking in the amount of stock he can get to know about the current, ordered and arrived stock.

**Features:**

1. Edit
2. Delete
3. Add
4. Subtract
5. Input new data

**SOURCE CODE**

|  |
| --- |
| #include<iostream>  #include<string>  #include<stdlib.h>  #include<fstream>  using namespace std;  struct productdata {  int code;  string name;  int max;  int stock;  };  productdata enter[20];  int total=0;  void entry(){      cout<<"ENTER DATA OF PRODUCT: "<<total+1<<endl<<endl;  cout<<"ENTER PRODUCT CODE: \n";  cin>> enter[total].code;  cout<<"ENTER PRODUCT NAME: \n";  cin>> enter[total].name;  cout<<"ENTER PRODUCT MAX STOCK: \n";  cin>> enter[total].max;  cout<<"ENTER PRODUCT STOCK: \n";  cin>>enter[total].stock;    total++;    }  void show(){    if(total==0){  cout<<"THERE IS NO DATA OF PRODUCT: \n\n";  }    else{  for (int i=0; i<total; i++){  cout<<"THE DATA OF PROODUCT"<<i+1<<endl<<endl;  cout<<enter[i].code<<endl;  cout<<enter[i].name<<endl;  cout<<enter[i].max<<endl;  cout<<enter[i].stock<<endl;  }    }  }  void search(){  if(total==0){  cout<<"THERE IS NO DATA OF PRODUCT: \n\n";  }    else{  int req;  cout<<"ENTER THE CODE OF THAT YOU WANT TO SEARCH:\n\n";  cin>> req;    for (int i=0; i<total; i++){  if(req==enter[i].code){  cout<<"THE DATA OF PRODUCT"<<i+1<<endl<<endl;  cout<<enter[i].code<<endl;  cout<<enter[i].name<<endl;  cout<<enter[i].max<<endl;  cout<<enter[i].stock<<endl;  break;  }  if(i==total-1){  cout<<"\aNO DATA FOUND: \n\n";  }  }  }    }  void update(){  if(total==0){  cout<<"THERE IS NO DATA OF PRODUCT: \n\n";  }    else{  int req;  cout<<"ENTER THE CODE OF PRODUCT THAT YOU WANTT TO UPDATE:\n\n";  cin>> req;    for (int i=0; i<total; i++){  if(req==enter[i].code){  cout<<"Previous data of product "<<i+1<<endl<<endl;  cout<<enter[i].code<<endl;  cout<<enter[i].name<<endl;  cout<<enter[i].max<<endl;  cout<<enter[i].stock<<endl;    cout<<"\n\nEnter data of product: "<<i+1<<endl<<endl;  cout<<"ENTER EMPLOYEE CODE: \n";  cin>> enter[i].code;  cout<<"ENTER PRODUCT NAME: \n";  cin>> enter[i].name;  cout<<"ENTER PRODUCT MAX: \n";  cin>> enter[i].max;  cout<<"ENTER PRODUCT STOCK: \n";  cin>>enter[i].stock;    break;  }  if(i==total-1){  cout<<"\aNO DATA FOUND: \n\n";  }  }  }  }  void del(){  if( total==0){  cout<<"THERE IS NO DATA OF PRODUCT: \n\n";  }    else{  int id;  cout<<"ENTER AN ID OF PRODUCT THAT YOU WANT TO DELETE: \n\n";  cin>>id;    for(int i=0; i<total; i++){  if(id==enter[i].code){  for(int j=i; j<total-1; j++){  enter[j].code=enter[j+1].code;  enter[j].name=enter[j+1].name;  enter[j].max=enter[j+1].max;  enter[j].stock=enter[j+1].stock;      }  }  }  total--;  }  }  void add(){  cout<<"HOW MUCH YOU HAVE RECEIVED";  int addd;  cin>>addd;  int id;  cout<<"ENTER AN ID OF PRODUCT THAT YOU WANT TO ADD STOCK: \n\n";  cin>>id;    for(int i=0; i<total; i++){  if(id==enter[i].code){  enter[i].stock=enter[i].stock+addd;  cout<<enter[i].code<<endl;  cout<<enter[i].name<<endl;  cout<<enter[i].max<<endl;  cout<<enter[i].stock<<endl;    }  }  }  void sub(){  cout<<"HOW MUCH YOU HAVE DISPLAYED";  int subb;  cin>>subb;    int id;  cout<<"ENTER A CODE OF PRODUCT THAT YOU WANT TO SUBTRACT: \n\n";  cin>>id;    for(int i=0; i<total; i++){  if(id==enter[i].code){  enter[i].stock=enter[i].stock-subb;  cout<<enter[i].code<<endl;  cout<<enter[i].name<<endl;  cout<<enter[i].max<<endl;  cout<<enter[i].stock<<endl;    }  }  }  int main (){  cout<<"======================================= WELCOME TO INVENTORY MANAGMENT SYSTEM ===========================================================================";  cout<<"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~";  cout<<"~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~";  cout<<" \*\*\*"<<endl;  cout<<" \*\*\*"<<endl;  cout<<" \*\*\*"<<endl;  cout<<" \*\*\*"<<endl;  cout<<" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;  cout<<" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* "<<endl;  cout<<" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* "<<endl;  cout<<" \*\*\* "<<endl;  cout<<" \*\*\* "<<endl;  cout<<" \*\*\* "<<endl;  cout<<" \*\*\* "<<endl;  cout<<" POWERED BY: microsoft"<<endl;  int choice;  int what,pass;  string x;  cout<<"1) old product:else Press any key "<<endl;  cin>>what;  fstream fout;  string record;  int count,temp;  if(what==1){  fout.open("cpproject.txt", ios::in|ios::out|ios::app);  while (fout) {  getline(fout, record);  cout<<"Record : " <<endl<< record<<endl;    // for(int i=0;i<=i;i++){    // if(record=="|"){  // total[i].code=record;  // total[i].name=record;  // total[i].max=record;  // total[i].stock=record;  // }}  // for(int i=0; record[i] != '\0'; i++){  // if(record[i] == '|' && count == 1){  // productdata[i].code = temp;  // temp = "";  // count++;  // continue;  ///  /// }  // if(total[i] == '|' && count == 2){  // productdata[i].name = x;  // x = "";  // count++;  // continue;  // }  // temp += record[i];  // }  // total[i].stock = temp;  // temp = "";  // count = 1;  // emp++;    ///////////////////////////////////////////////  }  cout<<"rememeber this and enter the values by using enter new data ";}  cout<<"ENTER PASSWORD: "<<endl;  cin>>pass;  int restart = 1;  while(restart){  cout<<"PRESS ANY KEY";  cin>>x;  system("CLS");  cout<<"=============================================================================================================================================\n";  cout<<" PRESS 1 TO ENTER NEW DATA: \n";  cout<<" PRESS 2 TO SHOW DATA: \n";  cout<<" PRESS 3 TO SEARCH DATA: \n";  cout<<" PRESS 4 TO UPDATE DATA: \n";  cout<<" PRESS 5 TO DELETE DATA: \n";  cout<<" PRESS 6 TO EXIT DATA: \n";  cout<<" PRESS 7 TO ENTER ARRIVEL:\n";  cout<<" PRESS 8 TO SUBTRACT DATA:\n";  cout<<"=============================================================================================================================================\n";  for(int x=0;x<total;x++){  cout<<enter[x].code<<"||"<<enter[x].name<<endl;    }  cin>>choice;    switch(choice){  case 1:{  entry();  break;  }    case 2:{  show();  break;  }    case 3:{  search();  break;  }    case 4:{  update();  break;  }    case 5:{  del();  break;  }    case 6:{  restart = 0;  // exit(0);  break;  }  case 7:{  add();  break;  }  case 8:{  sub();  break;  }  default :{  cout<<"Invalid Input: \n";  break;  }  }    }  cout<<"INPut File ";  ofstream out("cpproject.txt");  cout<< "total : " <<total<<endl;  for(int x = 0;x<total;x++){      out<<enter[x].code << "|" <<enter[x].name << "|" <<enter[x].max << "|" <<enter[x].stock << endl;  }  } |

**ALGORITHM**

1. Make a page for security.
2. Options what to do.
3. Add stock arrival.
4. Show stock details.
5. Subtract stock.

**Home and LOGIN SCREEN:**

A picture containing text

Description automatically generated

**Choice to do**

A screenshot of a computer

Description automatically generated with medium confidence

**Conclusion**

1. In the given project filling was difficult but by understanding by teachers and some video tutorials it becomes quite easy
2. Finding the values in array and input in regarded slots in array was quite easy.
3. I will just add edit in the admin section to custom edits let user have to increase the stock capacity.