

**Shopping Mall Report**

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We have created online shop that operates on console. We used programming language C# to code a project. First of all you have to choose in what mode to enter. In admin mode you can add shop and product, to change the cost of product and view products and shops that exist in shop. Consequently, in customer mode you can buy products. To see how many products you have bought and total cost.

To create online shop, we have decided to divide project into 3 classes Shop, Products and main class Program. In *Admin mode* to add a new shop or a new product we created the function that called addStore().

public void addStore(string fileName)

{

FileStream fstream = new FileStream(@"C:\Users\User\Desktop\RABOCHIY STOL\рабочий стол\pp2 labs\Project for AskarAkshabayev\alltxtfiles\" + fileName +".txt", FileMode.OpenOrCreate);

fstream.Close();

StreamWriter sw = new StreamWriter(@"C:\Users\User\Desktop\RABOCHIY STOL\рабочий стол\pp2 labs\Project for AskarAkshabayev\alltxtfiles\" + fileName + ".txt");

sw.WriteLine(1);

sw.WriteLine("storeName 0 0");

sw.Close();

}

To add a new product we have established a function that called AddProduct().

public void AddProduct(string pname, int pprice, int pquantity, FileInfo f)

{

bool doWeHave = false;

StreamWriter sw = new StreamWriter(@"C:\Users\User\Desktop\RABOCHIY STOL\рабочий стол\pp2 labs\Project for AskarAkshabayev\alltxtfiles\" + f.Name);

for (int i = 0; i < list.Count; i++)

{

if (list[i].name == pname)

{

doWeHave = true;

list[i].quantity+=pquantity;

break;

}

}

if (!doWeHave)

{

sw.WriteLine(list.Count + 1);

for(int i = 0; i < list.Count; i++)

{

sw.WriteLine(list[i].name + " " + list[i].price + " " + list[i].quantity);

}

sw.WriteLine(pname + " " + pprice + " " + pquantity);

}

else

{

sw.WriteLine(list.Count);

for (int i = 0; i < list.Count; i++)

{

sw.WriteLine(list[i].name + " " + list[i].price + " " + list[i].quantity);

}

}

sw.Close();

Console.Clear();

Console.ForegroundColor = ConsoleColor.DarkGreen;

Console.WriteLine("You have successfully sold the product!");

Console.ReadKey();

}

To change the price of product we have built the function that called Change().

public void Change(FileInfo f, int cursor, int price)

{

StreamWriter sw = new StreamWriter(@"C:\Users\User\Desktop\RABOCHIY STOL\рабочий стол\pp2 labs\Project for AskarAkshabayev\alltxtfiles\" + f.Name);

sw.WriteLine(list.Count);

for (int i = 0; i < list.Count; i++)

{

if(cursor == i)

{

sw.WriteLine(list[i].name + " " + price + " " + list[i].quantity);

}

else

{

sw.WriteLine(list[i].name + " " + list[i].price + " " + list[i].quantity);

}

}

sw.Close();

Console.ForegroundColor = ConsoleColor.Red;

Console.WriteLine("");

Console.ReadKey();

}

To view the list of stores we have create the function that named ShowStores().

public void ShowStores(FileInfo[] f, int cursor)

{

Console.BackgroundColor = ConsoleColor.Black;

Console.Clear();

int index = 0;

for (int i = 0; i < f.Length; i++)

{

if (index == cursor)

{

Console.BackgroundColor = ConsoleColor.White;

Console.ForegroundColor = ConsoleColor.DarkGreen;

}

else

{

Console.BackgroundColor = ConsoleColor.Black;

Console.ForegroundColor = ConsoleColor.Blue;

}

index++;

string fileName = f[i].Name;

string fileOfName=fileName.Substring(0, fileName.Length - 4);

Console.WriteLine((i+1) + ". " + fileOfName);

}

}

Therefore to see the list of products in stores we have created the function that called ShowProducts().

public void ShowProducts(int cursor)

{

Console.BackgroundColor = ConsoleColor.Black;

Console.Clear();

int index = 0;

for(int i = 0; i < list.Count; i++)

{

if (index == cursor)

{

Console.BackgroundColor = ConsoleColor.White;

Console.ForegroundColor = ConsoleColor.DarkGreen;

}

else

{

Console.BackgroundColor = ConsoleColor.Black;

Console.ForegroundColor = ConsoleColor.Blue;

}

Console.WriteLine(list[i].name + " " + list[i].price + " " + list[i].quantity);

index++;

}

Console.WriteLine("\n total: " + sum);

}

Then in a *Customer mode* users are able to buy products from different stores by function Buy().

public void Buy(FileInfo f, int cursor)

{

StreamWriter sw = new StreamWriter(@"C:\Users\User\Desktop\RABOCHIY STOL\рабочий стол\pp2 labs\Project for AskarAkshabayev\alltxtfiles\" + f.Name);

sw.WriteLine(list.Count);

list[cursor].quantity--;

sum += list[cursor].price;

for (int i = 0; i < list.Count; i++)

{

sw.WriteLine(list[i].name + " " + list[i].price + " " + list[i].quantity);

}

sw.Close();

Console.ForegroundColor = ConsoleColor.Green;

Console.WriteLine("Congratulations, you have successfully bought the product!!!");

Console.ReadKey();

}