DSA PROJECT

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Abstract

We have made a program that tells about price and quantity of a product in nearby store. For this purpose, we have stored a sample dataset of 4 stores containing 10 products each. We have used binary file handling for storing and accessing the product data. As student, sometimes we need to find out the minimum price of a particular product in nearby stores or sometimes we need to find out if a particular product is available at a particular store or not. Our program will solve this problem by providing them with details they want.

In our program, we have given two options:

- Backend
- Frontend

One is useful for the store owner so that they can perform the following operations:

- Enter a new product
- Delete a product
- View Inventory

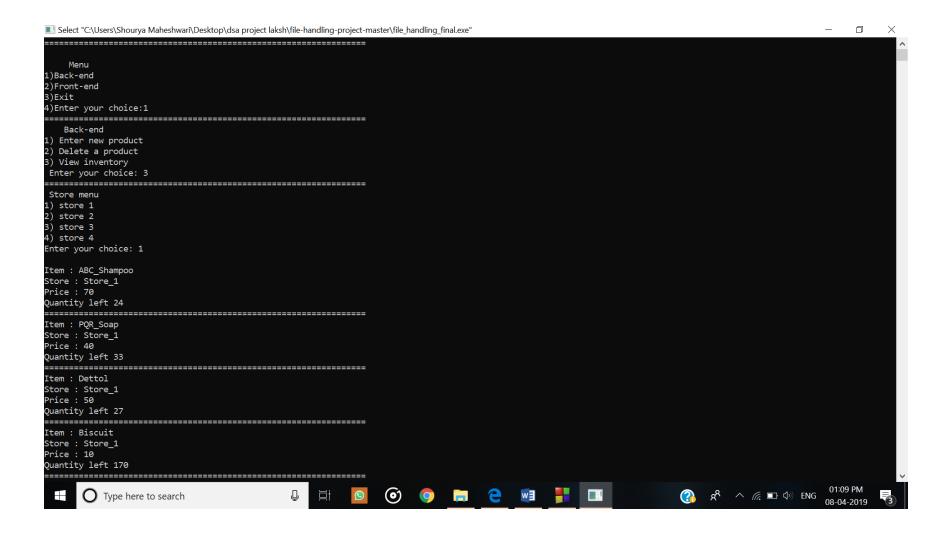
And the second option is useful for customer. This option asks for the product name. After giving the product name, it displays all the stores which have that product along with its price and quantity in their store.

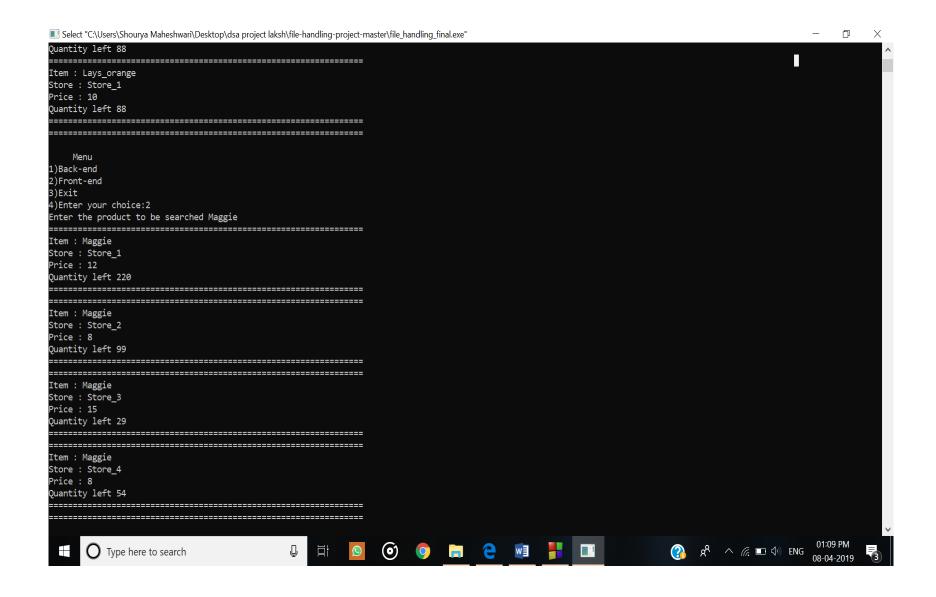
table

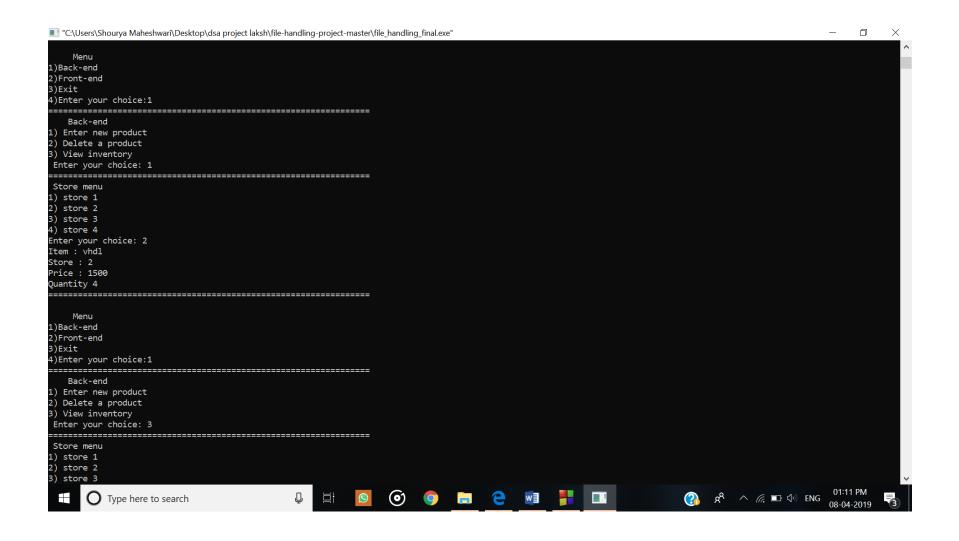
Sample Inventory:

Store	Product	Price	Quantity
1	ABC Shampoo	70	24
1	PQR Soap	l 40	33
1	Dettol	: 50	27
1	Biscuit	10	170
1	Maggie	12	220
1	Colgate	48	17
1	Surf Excel	99	69
1		10	54
1	Fogg Deo	229	. 8
1	Lays Orange	10	88
2	Dettol	40	17
2	Maggie	8	99 59 27
2	Surf Excel	115	59
2	Lays Orange	. 9	27
2	Amul Milk	37	15
2	Classmate Notebook	40	. 9
2	Soya Sticks	12	44
Z	Milk Shake	35	11
Z	Veg Puff	10	12
Z	Pepsi	35 15	9 29
3 1	Maggie	; 15 ; 30	i 47
3	Pepsi	: 30 : 50	40
3		: 50 : 60	17 20 25
3		. 60 . 46	i 40
3	Eggs	70	91
3	Eggs Puff	14	39
3	Cake	220	: 37 : 8
3	Basmati Rice	710	12
3	Biscuit	10	1 3
4	Maggie	8	54
4	Pepsi	37	30
4	Fogg Deo	210	7
4	PQR Soap	36	19
4	Amul Butter	115	20
4	Kissan Jam	40	31
4	Water Bottle	18	17
4	Haldiram Mixture	42	25
111111112222222222333333333334444444444	Nescafe Icetea	135	11
4	Kitkat	40	49

Output







Result

We created a GitHub repository for our project and have uploaded the c++ code and necessary binary files there.

The link to the repository is:

https://github.com/laksh-gupta/file-handling-project