Shopping Mall Management System

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Course title

Data Structures and Algorithms

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Abstract

Shopping mall management system is based on concepts of modern data structures. In this project we used data structures such as linked list, stack, queue and arrays. We also used concepts of OOP. Our project has different segments including user defined libraries. In this project, there are two custom users. One is for administrator other is customer section. Further we explain in brief.

Details

Our project is divided into two main programs. One is for customer defined and other for administrators.

Administrator section

In this section, there are different operations, implemented by linked list.
Following are:
1. **Add** a new product (adds anything new in mall)
2. **Display** existing products.
3. **Update** products details
4. **Remove** products.

LINKED LIST

Customer section

In this section, there are different operations, implemented by stack, array and queue.
Following are:
1. First of all **stack** used and gives a new entry.
2. Then we used **array** to add products that are bought by customers.
3. **Queue** is used in billing system which adds a new person in queue. After billing he is free to leave the queue.

STACK
QUEUE
ARRAY

Header Files

#include"queue1.h"
#include"animation.h"
#include"stackme.h"

Functions

Add()
Remove()
Display()
Enqueue()
Dequeue()