

Project: Fast-food Shop Management System

Course: CSE207 Data Structures

Submitted to: Dr. Md. Rezaul Karim, Professor, CSE Dept.

Submitted by:

Noshin Tasnim Khan (2020-1-60-221)

Noushin Pervez (2020-1-60-189)

Sanjida Akter (2020-1-60-222)

Which data structure we use and why?

- We use doubly linked list data structure.
-

Because,

- This allows us to iterate both directions.
- It's simple to reverse.
- We can delete a node easily as we have access to its previous node.
- Can grow or shrink in size dynamically.
- Useful in implementing various other data structures.

Introduction

- The aim of this mini project is to create a fast-food shop management system easy and convenient.
- We developed a user interface for a fast-food management system which provides two sections.
 1. Admin section.
 2. Customer section.

```
=====
                        Welcome to Fast-food Shop Management System
=====

Admin Section- 1
Customer Section- 2
Exit- 3

Enter Your Choice:
```

Features

- Add food item to the menu
- Delete food item from the menu
- Manage menu list
- Place order
- Manage order list (Add, Delete)
- Display bill
- View total sales of a day

Functions used

Different functions are used to perform different tasks.

- **Admin functions**

- adminMenu** – to print admin menu

- *createAdmin** – to create a new node of food items in the order menu

- deleteAdmin** – to delete a food item from the order menu

- *totalSales** – to create a new node for a customer sales

- calculate** – to create nodes of total sales in a day

- total** – to print the total sales and food items sold in a day

•Customer functions

customerMenu – to print customer menu

***createCustomer** – to place an order by a customer

deleteCustomer – to delete an order by a customer

displayBill – to display the ordered food items and total bill by a customer

***deleteList** – to delete the entire linked list of ordered food items by a customer after the execution of displayBill so that another customer can place a new order

• Other functions

mainMenu – to print main menu

admin – to display admin section options and interface

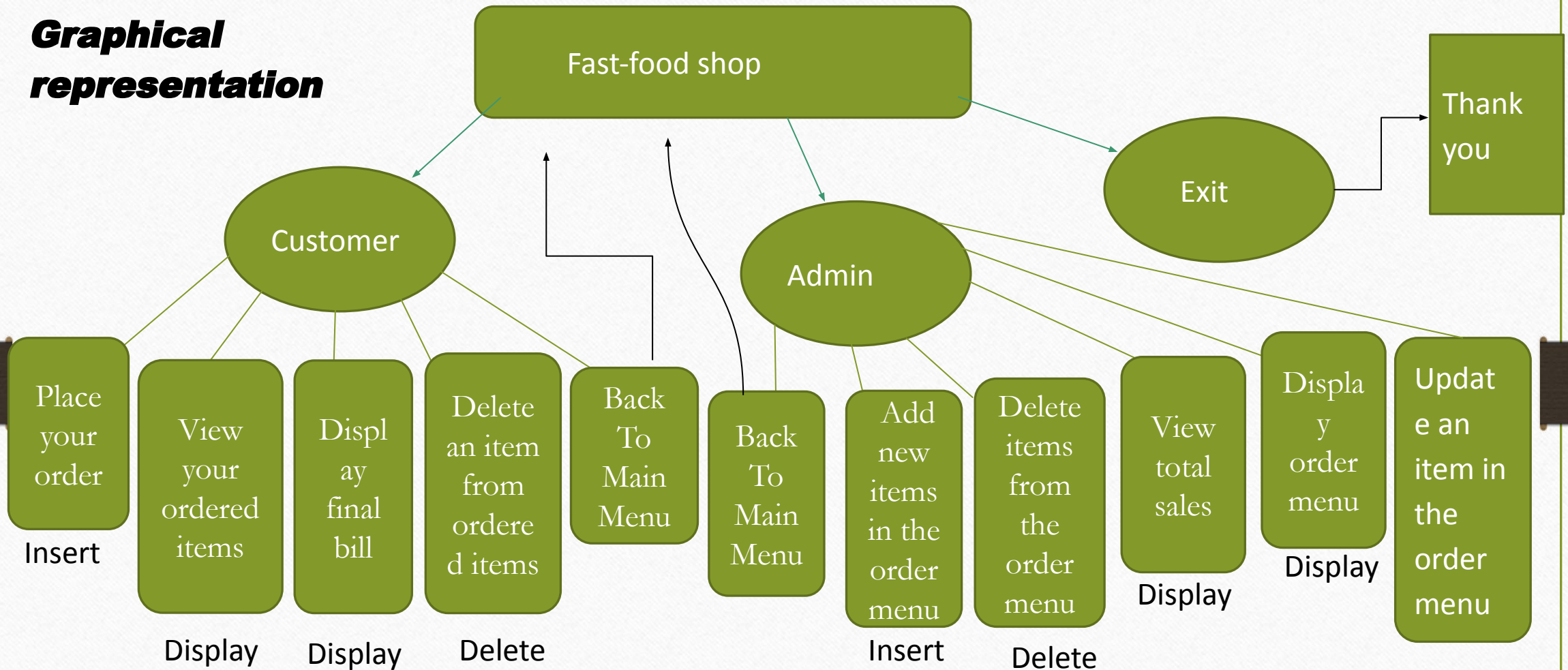
customer – to display customer section options and interface

***del** – to delete a node from the linked list

(deleteAdmin and deleteCustomer can call this function to delete a node)

displayList – to display the linked list

Graphical representation



Advantages

- Track sales and orders
- View accurate, real-time financial statements
- Access data easily and faster.

Thank you