

STUDENT PORTFOLIO



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Department: DATA SCIENCE AND BUSINESS SYSTEMS

Semester: 3

Subject Title: 21CSC201J Data Structures and Algorithm

Handled By: Dr. Rajkumar K.

ELAB Completion Status Completed 4-5 questions from all the topics

In this report, we discuss the implementation of an online food ordering system using a linked list. The purpose of this system is to manage a customer's food order dynamically by adding, displaying, and removing food items. A linked list is chosen for its flexibility in managing ordered data, allowing for efficient additions and deletions.

A linked list is a linear data structure where each element, called a node, contains a data part (in this case, details about a food item) and a pointer to the next node in the sequence. In

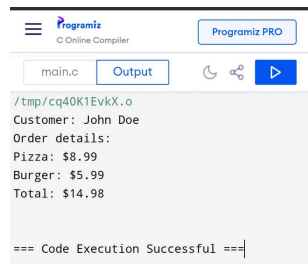
the context of the online food ordering system: Each node represents a food item with its name, price, and a reference to the next item. The linked list helps manage an ordered list of items, allowing easy addition, traversal, and deletion.

4. System Functionalities

4.1 Adding an Item When a customer selects an item, it is added to the end of the linked list. This involves traversing to the last node in the list and linking the new item as the next node.

4.2 Removing an Item To remove an item, the system traverses the list to find the specified item and updates the pointer of the previous node to skip over the removed node, effectively deleting it.

4.3 Displaying the Order To display the order, the system traverses through each node, retrieving the details (name and price) of each item and calculating the total cost.



Report: <https://drive.google.com/file/d/1eiX8heI9QwHOoHs4ROY2bUPKvrZS7jiz/view?usp=sharing>

Gate Solution:

https://1drv.ms/w/c/77ab0a8c7eb48d26/EfRHszf7I1dGmGMSrwSgJDsBENJdb7X3UzK_fFbw5423_Q?e=oChxn7

"C:\Users\valiv\Downloads\mahithapath.pdf"


Any other


(Write if you registered or practise apart from Hackerrank, Leetcode, Github.etc

Eg: Certification Programs related to DSA)Hackerrank and CodeChef

HackerRank | Prepare | Certify | Compete | Apply

Search







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Data structures and Algorithms in C test

VALIVETI SAI MAHITHA scored

1900 /2800 points

 **19** Correct Answers

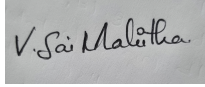
 **02** Wrong Answers

 **07** Unattempted



Valivetisaimahitha

Signature

A rectangular image showing a handwritten signature in black ink on a light-colored background. The signature is written in a cursive style and reads "V. Sai Mahitha".