Department of **CSE**

Project Report On
Food Order Management System

Course Code: **CSE 106**
Course Title: Data Structures Lab

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1. Introduction: Food is the most essential things for human beings. For the living purpose, we need to take food every day. The worker peoples that means the people who work outside from his home. They need to take the food from the outside. And today, I am trying to make something that will be helpful for those who are taking food outside and also who are selling food outside.

2. Aim: This project aims to build a food order management system. By which the people who are selling food can easily take the orders from their customers. And also it will help the people to easily order the food who are taking food from the outside.

3. Description: About this project, this is a very simple local hotel based food order management system. Where people can order their regular food or we can say snacks type foods. Here I am trying my best to make this project realistic according to our Bangladeshi culture. From this project, the sellers can easily get the orders, as well as the customers, also give the orders within a very short time. It will hassle-free for both sellers and customer.

4. Programming knowledge we need for this project: First of all, here I am using the C language which the middle-level programming language. And C language is

the most useable language for structure programming. So here I am using C for this project. As I said earlier this a simple project. So we don't need a lot of knowledge or we can say we don't need some deep knowledge about programming. Here I am trying to make this project as simple as possible. So, for this project, we need to know some basic knowledge about C along with the conditions, loops, functions, structure and some other basic things about C.

5. Data structure knowledge for this project: Data structure means the collection of data values, the relationships among them, and the functions or operations that can be applied to the data. So shortly we can say that data structure is something that works with the data.

In this project, we use a very little bit about data structure because as I say it is a very simple project. Here, we use a structure that is a part of the linked list abreast we store some data and I try to make some work with data values.

Lastly, a very small amount of data structure has been used in this project.

6. Problems I faced while making this project: Since this is a simple project so I didn't face so many problems but I

faced some problems. Here I am mentioning the problems below,

1. How to take the name, order details and bills altogether.
2. How to store the data and use it in need.
3. How to add a token number or serial numbers type something.
4. How to calculate how many items served and how many items left.

7. How I solved the problems: The first problem I solved with the help of structure. Because with the help of structure we can declare or use different types of data all together in one place.

For the second problem, I was a little bit worried about this. I think for this I need to use some complex things such as queue, linked list or stack. But luckily I do all of the things with the help of conditions variables.

8. Unsolved problems: Here in the previous section I said about how I solved the problems and I missed the last two. That means I can't solve that problem. I can't add the token number while I am adding this there was a problem I can add it by random function but that will not the effective solution. For this portion, I want something

about the serial types which denoted that how many customers buying food from my shop.

And for the last one, I can't calculate that how many items served and how many items left, basically I think it is possible to say which items will be served first and which will be second and so on.

So I skip these two portion. I didn't add this to my project.

9. Result: As a result, I build a food order management system. By which the owners of the hotel can take the orders to form the customers easily.

10. Benefits: As I say so many times that this is a very simple project. And with the help of this project, any hotel owner or manager can get so many benefits such as,

- This is a very simple project so the cost of this project is very low.
- The maintenance of this project will be very simple and easy.
- The hotel manager or owner can easily get orders from customers.
- Easy to use.

- The customers also easily give their orders without any disturbance.
- The billing system is very helpful for the customers and also for the owners.

END