



Lab Final

Only for course Teacher						
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate mark & Percentage		25%	50%	75%	100%	40
Understanding/Analysis	10					
Implementation	15					
Accuracy	10					
Task Efficiency	5					
Total obtained mark						
Comments						

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Capstone Project

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Daffodil
International
University

PROJECT DOCUMENTATION

Project Name : Restaurant Ordering System

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A project (SE 133: Software Development Capstone Project using C) submitted in fulfillment of the requirements for the degree of B.Sc. in Software Engineering.

DEPARTMENT OF SOFTWARE ENGINEERING

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DECLARATION OF PROJECT

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Title of Project : Restaurant Ordering System
Academic Session : 2023

I, the author, hereby declare that the project becomes the property of Daffodil International University (DIU) and to be placed at the department of Software Engineering. I also give permission to the DIU to reproduce this project in whole or in part for the purpose of research or academic exchange only.

Certified by:

SIGNATURE

STUDENT ID: 0242220005341134

Date:

SIGNATURE OF SUPERVISOR

NAME OF SUPERVISOR: MD. SHOHEL ARMAN

Date:

AKNOWLEDGEMENT

First and foremost, all thanks to Allah for giving the strength to start and complete my project.

Secondly, I want to thanks Daffodil International University for giving me a great chance to hence myself and also developing this project, thirdly I want to appreciate my department of software engineering especially our honorable head **Dr. Imran Mahmud** and my dear teachers for excellence teaching and providing such incredible study.

This project is called Restaurant Ordering System and it's about taking order from customer, saving their feedbacks and store staff attendances, really, I am very proud and happy to make this project and remark one of my dreams done

I also want to thanks my dear parents for their encouragement and endless support and my friends who also gave hand for this project

Finally, I want appreciate my dear teacher **Md Shohel Arman** for his excellence teaching and advices during my study of his course as well as my project.

Thanks

Mahinur Rahman Nifad

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Restaurant Ordering System

ABSTRACT

The proposed project is a Restaurant Ordering System that will provide an easy and efficient way for customers to place orders in a restaurant. The system will be developed using C programming language and will run on a desktop computer. The customer will be able to browse through the menu, select the items they want to order, customize their orders, and submit their orders to the kitchen. The system will also have a feature to display the estimated time for the order to be ready for pickup. Our program allows customers to publish their comments. This program of ours publishes menu bar comments and There are 2 options for viewing published comments. Through which customers provide valuable feedback about our restaurant service and restaurant food. This comment can be seen by both the customer and the restaurant manager. The system will be developed for a single restaurant and will be used by the restaurant staff and customers.

PROJECT DESCRIPTION

The goal of this project is to create a command-line based ordering system for a restaurant. The system will allow customers to browse the menu, place orders, and view their total bill. The system will also allow restaurant staff to view and manage orders. The system also allows that, taking customer feedback, seeing these feedback by Restaurant staff.

CURRENT PROBLEMS

Inefficient manual processes, lack of real-time availability information, and limited reporting capabilities hinder the smooth functioning and customer Analytics and data-driven insights experience and last one Not being able to take extra customer pressure of the Restaurant Ordering System in C language.

SOLUTION

management system where managers are relaxing about their product information and they will easily store their product information into the system. I can confidently say that by using this system they are 100% safe and secure. They are not going to afraid of losing their information. They can easily

PURPOSE

The purpose of a Restaurant Food Ordering System project is to provide a digital platform for customers to place food orders from a restaurant. This system typically includes a website or mobile application that allows users to browse the restaurant's menu, select the items they want to order, customize their order, if necessary (e.g., choosing toppings or specifying dietary preferences), and submit the order for processing.

The primary objectives of a Restaurant Food Ordering System project are:

1. Convenience for customers
2. Improved order accuracy
3. Increased efficiency
4. Enhanced customer experience
5. Order tracking and management
6. Integration with other systems

Overall, the purpose of a Restaurant Food Ordering System project is to leverage technology to simplify the ordering process, improve efficiency, and enhance the customer experience in the restaurant industry.

PROJECT GOALS

Use interface: The system should provide an easy-to-use interface for both customers and restaurant staff.

Menu management: The restaurant can also add or remove items from the menu.

Browse Menu: Allow customers to browse the restaurant menu, view dish details, and select their desired dishes.

User Interface: To develop a user-friendly and intuitive interface that allows customers to easily navigate through the system, place orders, and make payments.

Order system: The system should increase customer satisfaction and loyalty.

Functional requirement

1. Food order
2. View order
3. Back to main menu
4. Give feedback
5. View feedback
6. Staff attendance system

Non-Functional requirement

1. Usability
2. Performance
3. Take short time to execute the program
4. Maintainability
5. USER INTERFACE
6. DATA BACKUP

TECHINICAL GOALS

This is concerned with specifying equipment and software that will successfully satisfy the use considerably but might include

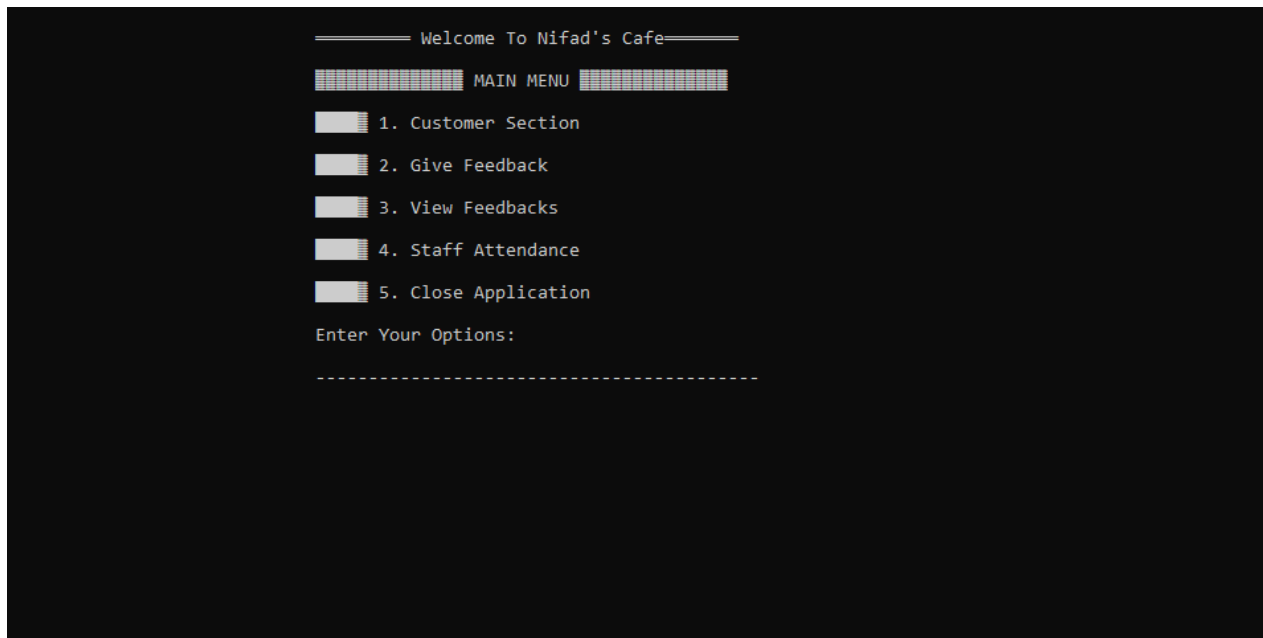
- Because system is fast enough to handle users.
- Response time under certain circumstances and ability to process a certain volume of transaction of a particular speed

RESULTS AND DISCUSSION

The “Restaurant Ordering System” project is a C program-based program for effective education purpose. It mainly run in Code Blocks software. In this system user can easily input product information and can find out easily a record.it is safe and secure for user. It automated processes, reduced errors, and saved time for librarians. Real-time availability information enhanced the customer experience, and reporting capabilities provided valuable insights.

User Interface

Pic num	Function	Validation criteria
1	Main menu	There are 5 options in the main menu you have to type one of them.



Pic num	Function	Validation criteria
2	SELECT CATEGOIES	There are 3 options in the SELECT CATEGOIES, you have to type one of them.


```

-----
Select Catagories
1. Order Snack
2. View Order
3. Back to main menu

Enter Your Options:

```

Pic num	Function	Validation criteria
3	ORDER SNACK	There are 7 food options we can order different food every time and the food bill will also come with it
4	cdetails	Its function is to show the customer's name, address, phone number and how much he has been billed


```

-----
SNACK MENU
-----
INPUT NUMBER FOR SELECTED MENU
1.French Fries 150 Taka
2.Cheeseburger 250 Taka
3.Sandwich 220 Taka
4.Hot dog 180 Taka
5.Noodles 60 Taka
6.Cold Coffe 120 Taka
7.Back to main mune

Enter Your Choice--->
Input Customer Order:

```

Input Customer Details
 First Name :Mahinur
 Last Name :Rahman
 Phone : 01628511429

Your Details Entered Are 
 First Name: Mahinur
 Last Name: Rahman
 Phone:1628511429

 Your Order will be in 15 minutes..
 THANK YOU...
 Press Any Back to Main Menu

Pic num	Function	Validation criteria
5	VIEW ORDER	It shows the order provided by the customer
6	BACK TO MAIN MENU	This will take you back to the main menu

Grand Total: 500
 Order by : Mahinur Rahman
 Phone Number : 1628511429

Pic num	Function	Validation criteria
7	Give feedback	The function is used to receive customer feedback
8	View feedback	Through this function customer feedback can be viewed by both customer and staff

```

*****
Give Your Feedback
*****

Enter your name: Mahinur Rahman Nifad
Enter your Feedback (max 1000 characters):
The food was very good and the service was phenomenal

Thank you for your feedback!

```

```

List of feedbacks:

Mahinur Rahman Nifad said: The food was very good and the service was phenomenal

```

Pic num	Function	Validation criteria
9	Staff Attendance	Attendance of employees is taken through this system
10	Close application	The exit system of program

```

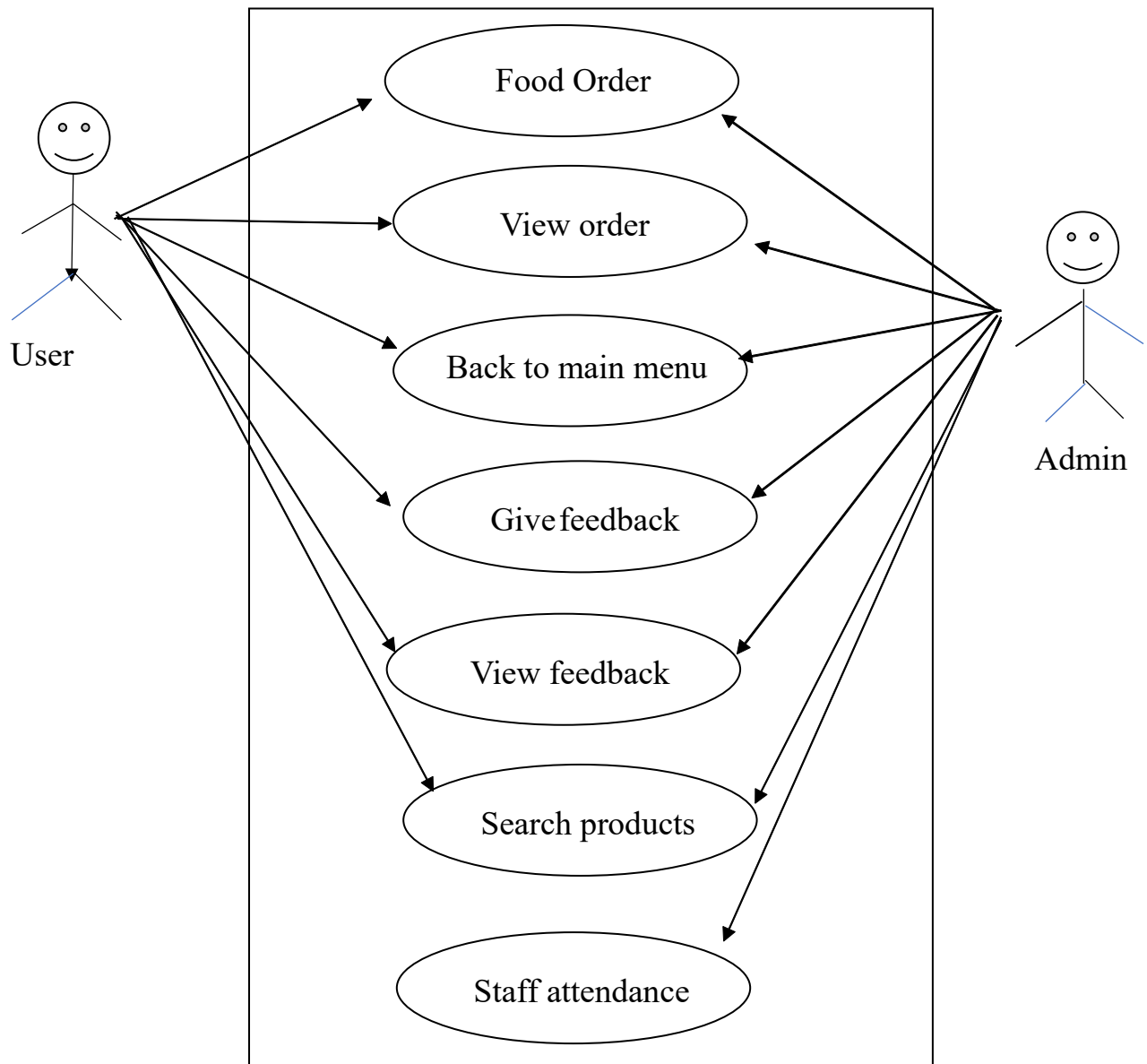
Staff Attendance
Enter staff ID: 452098
Enter staff name: Asiful

```

Requirement Elicitation

1. Admin
2. User

USE CASE DIAGRAM



DESIGN AND IMPLEMENTATION

Software language used

- C language

REQUIREMENT SPECIFICATION

Windows OS XP, Windows Vista or Windows 7,10, 11. At least 2.0 GHz Processor speed,
At least 40 GB Hard Disk Capacity and 512 GB of RAM.

USE CASE DESCRIPTION

Use case	Customer Section
Goal	To make sure customer can order their foods and take services.
Preconditions	N/A
Success End Condition	The customer can enter customer section if they enter rite selection code.
Failed End Condition	If customer input wrong code, they cannot order food
Primary Actors	Customer
Secondary Actors	Admin
Description / Main Success Scenario	Action

Use case	Give Feedback
Goal	Customer can write them feedbacks
Preconditions	N/A
Success End Condition	Customer successfully give their feedback.
Failed End Condition	If customer input wrong code, they cannot write any feedback.
Primary Actors	Customer
Secondary Actors	Admin
Description / Main Success Scenario	Action

Use case	View Feedback
Goal	The Admin can see who place feedbacks
Preconditions	N\A
Success End Condition	Admin successfully observe the feedback.
Failed End Condition	If admin input wrong code, he cannot see any feedback.
Primary Actors	Admin
Secondary Actors	
Description / Main Success Scenario	Action

Use case	Staff Attendance
Goal	The Admin can make records of staffs.
Preconditions	N\A
Success End Condition	Admin successfully added staff attendance.
Failed End Condition	If admin input wrong code, he cannot record any data
Primary Actors	Admin
Secondary Actors	
Description / Main Success Scenario	Action

CONCLUSION

The Restaurant Order System is an attempt to overcome the current inefficient and time-consuming process of reserving and purchasing restaurant food. With restaurant ordering system solutions, restaurants can provide an easy way to order food. It is worth analyzing and identifying the benefits as it will directly affect the productivity of the restaurant.

. RECOMMENDATIONS FOR FUTURE WORKS

Alhamdulillah finally I have successfully completed my project, I have a lot of aspects in future plan now this is only software but I want to convert it in a real and working project also I want make a new design for my project so it will look more attractive in addition to that I am going to add extra features in the project and it will be more helpful and effective.

Also, currently I have implemented this project using C language but I want to implement it a more and better language to enhance the efficiency of the project.

1. In this Project are some Fault. In future I customized all the problems.
2. It's an Online Based Project. But in future I will try to online based project.

REFERENCES

- BLC
- GitHub
- ChatGPT
- Youtube

DOCUMENTATION

 <https://github.com/mahinurrahmannifad/Restaurant-Ordering-System>