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## “MEAL MONKEY”

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# CERTIFICATE

This is to certify that the project titled **“MEAL MONKEY”** is a record of the bona fide work done by **SANTOSH REDDY, UJJWAL PANDEY AND SAI VIBHU LADE** submitted for the partial fulfilment of the requirements for the completion of the **Experiential Learning (DA1001)** course in the Department of **Computer Science and Engineering** of Manipal University Jaipur, during the academic session 2021-22.

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| --- |
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# ABSTRACT

# Increased demand of restaurant-goers generated the need for much attention for the hospitality industry. Providing much option with ease of ordering and delivering is the need of the hours. Technological interference has become mandatory to improve the quality of the service and business in this industry. Evidences are already existed for partial automation of food ordering process in the country; most of these technologies implemented are based on wireless technologies.

Online Food ordering system is a process in which one can order various foods and beverages from some local restaurant and hotels through the use of internet, just by sitting at home or any place. And the order is delivered to the told location.

Nowadays everyone is having busy schedule whether it is urban area or rural. But talking specifically about the urban areas and deeply about the big cities, people out there are so busy in their life that they don’t get enough of time to have their meals properly. As these days women are no less than men, in any field. So in big cities even wives are working women, therefore mostly the small families manage to have their food ordered from somewhere, as they lack time.

Not only this is the case, if we talk about the children in the modern era they like only fast food or something from the outside. But they ignore eating homemade meals.

So food ordering system these days has one of the fastest growing market, though being a new idea. In this project we have developed something like the same to earn from and serve the nation in a much better way possible. Nowadays, people are more regular to dine-in at restaurant for their meals. The online food ordering system provides convenience for the customers that are nothing special but the general busy people of the society.

It overcomes the demerits of the manual hotel or mess system and the old fashioned queuing system. This system enhances the readymade of foods than people.

# INTRODUCTION

# Developing an Online Food Court Ordering system to promote a greater count of food lovers to splurge into the field of Restaurant was the objective of this study. Нis particular system provide the benefit of the easy ordering process online from anywhere along with ample choices for the customers in less time and less expenditures. Нis latest eوٴort will definitely usher an edge in the existing manual platform used so far for such an important aspect along with greater flexibility and sophistication in the use of the technology. Нe system also aided E-ordering option for the customers with multiple other benefits. Нe user should register in the system to avail the utility. Users will be able to select their preferable food items from the existing E-menu card and order their requirement online. User will receive an onscreen presence of the selected items immediately aіer item selection. Application of this system will reduce the additional service associated manpower used in the hospitality industry, thus may provide financial benefits to the owners of such industry. Moreover, this system will be useful during the rush hours in the food courts when waiters or other service providers remain busy and unavailable to all the customers at a time. Нe user will have a username and a password for their regular use and personalised account maintenance.

# Нe new online Food Ordering System consists of a monitor screen to allow customers to choose their desired food via the menu shown on the screen. Нe choices made will be sent to a kitchen assistant. Computer screen will be placed on each table for customers to make their orders. Customers will be prompted to choose their desired language and the language can be reselected anytime. Нe system also allows customers to look at their food preparation process.

# Due to enormous busy schedule and concentration on professional and personal work, the present generation is not willing to waste time in a queue of a restaurant, be it for occupying a place or receiving the ordered menu. Working and student community gathers in restaurants during their break time which is limited, therefore, they do not prefer to wait in a queue for any reason. Нis tool will help such kind of customer to save their valuable time by ordering their food without any manual interference and delay. Нe following objectives were considered while designing the project:

# • Ordering food within limited span of time without any interference.

# • Providing more convenience and choices to the customers.

# • Automated order and billing system.

# Manual Food Ordering System uses waiter to take order from customers. During peak hour, customers may be too many to be served by waiters. Нe quality of the service may drop thus causing dissatisfactory of customers. However, if there are too many waiters are hired, it may be a waste of resources during non-peak hour.

# The process flow of the online food ordering system begins when the user is needed to login the website. When the user gets logged he can be able to view the E-menu card. Then the user can be able to add items to the cart and select the Particular time slot. After selection of Time Slot and unique order Id is generated. Then based upon the user the delivery options are provided i.e., For Teacher both Take Away and Delivery and for students only Take Away is provided. After Selecting the Delivery process the User can moves for payment section & Select’s payment method. Then conformation Receipt is generated states that order is placed successfully.

Let’s read about each advantage in detail in the space below.

* **Variety of Food:**Often, you get bored of eating the same food over time and want to eat something delicious and different. Online food delivery apps offer a variety of foods at your doorstep. From local to international, you can enjoy having the taste of any country or locality whenever you want.
* **Convenience:**When you are at home, you may feel reluctant to make food after the office or household work. And in this situation, neither you want to go to Kitchen to make food nor a restaurant to eat. So, an **online food ordering system** allows you to have food at your comfort.
* **Less Cost of Ad:**When you open a new restaurant, you have to spend a lot to advertise your business. But if you go for on-demand app development or for a website to digitize your business, you have to spend less on ads because they run on online platforms. Moreover, easy to reach potential customers.
* **Low Maintenance:**Off-line food business requires many resources and effort. While you can run the business flawlessly if you run it online because the maintenance cost will get reduced. You can collaborate with the restaurant owners and run an **online food ordering system**.
* **Time-Savvy:**The most important advantage of an online food delivery app is, it saves time. You will not have to go to the restaurant and wait for the food to get ready. You can plan the food as per your time and order 30 minutes before your eating time. Meanwhile, you can do your work while waiting for the food. Many want to know [**how to hire mobile app developers**](https://www.technource.com/blog/how-to-hire-mobile-app-developers/), because of the advantages of online food ordering system offers.
* **Increase Loyalty:**Customers will know your business and like to order using your app if you offer variety and quality. So, the online food business will help you increase the loyalty of your customers and ultimately the revenue.
* **More Customers:**83.72% of people in the world own smartphones. It shows what they see online use and believe most. Consequently, if you have an app or website, your business can have more exposure and reach countless people. So, it will bring you more customers.
* **Increase Visibility:**How many food delivery apps do you know? You can name many. Likewise, the online food ordering system increases the visibility of your business. The more people will know about your business the more people will take service.
* **Wider Market:**You noticed the rapid evolution of the food delivery market. It is because the businesses can reach the targeted audience easily. The online presence of the food business gives exposure to a wider market and gets in touch with all types of customers.
* **Revamp Revenue:**Management of transactions is an important matter in the food ordering business. You can have a **restaurant management system** for point of sale. POS apps help to keep the records of transactions properly and easily. So, it can revamp the revenue for the success of the business. These were the advantages of an **online food ordering system**. But if you are planning to have an app or website, know about the **food software cons**

# SOFTWARE AND HARDWARE REQUIREMENTS

# 2.1 Software Requirements: -

# C Program

# (if else, switch case and for loop)

# 2.2 Hardware Requirements: -

# Consumer grade laptop for program.

# METHODOLOGY

# 1.If else

# If-else statement allows to make a decision according to the given conditions. If the given condition is true, then the statements inside the body of logical 'if' are executed and the statements inside the body of else are not executed. Similarly, if the condition is false, then the statements inside the body of ‘if’ are ignored and the statements inside the ‘else’ are executed.

# 2.Switch Case

In a switch statement, we pass a variable holding a value in the statement. If the condition is matching to the value, the code under the condition is executed. The condition is represented by a keyword case, followed by the value which can be a character or an integer. After this, there is a colon. Each case has a break statement, that makes the control to leave the loop. If no matching case if found it executes the default statement.

If the value of n is 1 then the code under case 1 will be executed and it breaks from the loop using the break statement. Similarly, if the value is 2 then, it will first check for case 1 if it does not match the control will go to case 2. If there is a match it will be executed and followed by a break statement. If after checking all cases, no condition matched then the default condition is executed.

The use of break is to prevent the other cases from being executed even after finding the match and executing the statements under it. If there is no break statement then, the statement under the case below it is also executed. Each case should have the break statement except the default. Break of default is optional.

**3.For loop**

**Looping Statements in C** execute the sequence of statements many times until the stated condition becomes false. A loop in C consists of two parts, a body of a loop and a control statement. The control statement is a combination of some conditions that direct the body of the loop to execute until the specified condition becomes false. The purpose of the C loop is to repeat the same code a number of times.

# RESULTS AND DISCUSSIONS

# 

# 

# An online ordering system is a simple automated system that enables your restaurant to process internet-based food orders from online customers our interface handles

# Login & Signup

# Search by Food

# Search by hotels

# Cart & Order Confirmation

# 

# 

# This is the main function for signup, From here we are calling the account\_check() function to validate the inputs. Following are the functionalities:

# Input the username, age, email, password, confirm the password, and mobile number.

# Validate the inputs

# Username must contain alphabets.

# Age must be greater than and not equal to 0.

# Email must contain @, a comma and length should be greater than 5.

# Passwords must contain length between 8 to 12 with at least one uppercase, lowercase, number and special character. Both password and confirm password should be the same.

# Mobile number should contain numbers and exactly 10 digits.

# After the successful validation of all input fields, it checks whether the same account already exists or not through account\_check() functionality.

# In this functionality, the food order is placed after selecting any Hotel. Once the hotel is selected the list of food is displayed with their respective costs. Once the food is selected, you need to go to option Select Cart for the successful ordering of the foods.

# Before ordering by the hotel, initialize some default hotels which we are given locally through [structures in C](https://www.geeksforgeeks.org/structures-c/) for our demonstration. Once the hotels and their respective foods are initialized dynamically, it will display the list of hotels.

# 

# 

# 

# Once the hotel is selected in the above step, select the food and enter the number of items to order. Once the selection of all the foods is done it will display the total amount of food selected. Move to Select Cart for the successful ordering of the foods.

# FLOWCHART

# 

# CONCLUSION

# Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses. At the end it is concluded that we have made effort on following points..

# .• A description of the background and context of the project and its relation to work already done in the area.

# • Made statement of the aims and objectives of the project.

# • The description of Purpose. Scope, and applicability

# • We define the problem on which we are working in the project.

# • We describe the requirement Specifications of the system and the actions that can be done on these things.

# • We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.

# • We included features and operations in detail, including screen layouts

# • We designed user interface and security issues related to system. Finally the system is implemented and tested according to test cases

# FUTURE PROSPECTS

Online food ordering has definitely transformed the global food market. On-demand food delivery apps can bring customers everything from soup to fast food to Italian at their doorsteps with just a couple of clicks.

Ordering food online has become a new trend that offers a plethora of advantages to users as well as restaurant owners. Aside from that, food delivery app development is also on the rise. Apps like Door Dash, Just Eat, Zomato, and Food panda are taking over the major market share.

Companies have also been coming up with cutting-edge technology solutions that promise a better [customer experience](https://ceohangout.com/startup-focus-customer-experience/). As per the report from Business Wire, the global food delivery market will cross the $154.34B mark in 2023. It means this is the best time to take your food delivery business online because major food delivery apps such as Food panda, Deliveroo, Uber Eats are already redefining the industry.

The rapid growth of the food delivery market also opened new doors of opportunities for a [new kind of restaurant](https://ceohangout.com/7-impressive-steps-to-develop-a-restaurant-marketing-plan/) such as “ghost” and “cloud kitchens” which are new approaches adopted by many food delivery firms.

The increasing usage of smartphones and the Internet has changed people’s habits and lifestyles. Online food delivery apps are becoming an indispensable part of our day-to-day lives. And the usage of it will increase more in the future.

As per recent research, restaurants are losing 20% of profits if they lack an online presence. Existing online food delivery apps are adopting the above trends and working round the clock to enhance user experience. This is why food delivery business owners are embracing new trends in their business model.

With the increasing trend for online delivery, there is no doubt that the sales and revenue of restaurants will also increase with so many enticing benefits.

The online food delivery market has given birth to many new terms that help business owners to maximize their ROI. Ghost Kitchen is another popular item that enables food delivery business owners to expand their service at a minimal cost.

In simple terms, Ghost Kitchens are restaurants that are not located physically but only exist over the Internet. They accept orders online through websites and apps. There are many business models for ghost kitchens, but the main advantage it offers is one can expand its business with lower operating costs.

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