

A Comprehensive Study on Online Food Order System

By

Md Adnan

ID: CSE1803015004

Md Asaduzzaman Asad

ID: CSE1803015006

Mahamudul Hasan Reyad

ID: CSE1803015029

Syed Rakibul Ahmed

ID: CSE1803015039

Supervised by

Afifa Hossain

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APPROVAL

The Project titled “**A Comprehensive Study on Online Food Order System**” submitted by Md. Adnan (CSE1803015004), Md. Asaduzzaman Asad (CSE1803015006), Mahamudul Hasan Reyad (CSE1803015029), Syed Rakibul Ahmed (CSE1803015039) to the Department of Computer Science and Engineering, Sonargaon University (SU), has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents.

Board of Examiners

Afifa Hossain

Lecturer,
Department of Computer Science and Engineering
Sonargaon University (SU)

Supervisor

(Examiner Name & Signature)

Department of Computer Science and Engineering
Sonargaon University (SU)

Examiner 1

(Examiner Name & Signature)

Department of Computer Science and Engineering
Sonargaon University (SU)

Examiner 2

(Examiner Name & Signature)

Department of Computer Science and Engineering
Sonargaon University (SU)

Examiner 3

DECLARATION

We, hereby, declare that the work presented in this report is the outcome of the investigation performed by us under the supervision of Afifa Hossain, Lecturer, Department of Computer Science and Engineering, Sonargaon University, Dhaka, Bangladesh. We reaffirm that no part of this Project and thereof has been or is being submitted elsewhere for the award of any degree or diploma.

Countersigned

Signature

(Afifa Hossain)
Supervisor

Md Adnan
ID: CSE1803015004

Asaduzzaman Asad
ID: CSE1803015006

Mahamudul Hasan Reyad
ID: CSE1803015029

Syed Rakibul Ahmed
ID: CSE1803015039

ABSTRACT

E-commerce refers to the purchase and sale of goods and/or services via Internet. Online Food Ordering System is a part of e-commerce. **ONLINE FOOD ORDER SYSTEM** is a website designed primarily for use in the food delivery industry. Through these services restaurants can sell and distribute their resources at minimal resource usage effectively with high profits by gaining the customer trust. This Online food order system database will be helpful for the business owners to extend their business just by placing the orders online and not visiting the restaurant.

There is no confinement for placing and receiving the orders, since the order can be placed online. There will be no waiting time with the vast amount of varieties at the comfortable prices. To develop this application database is the main part which will communicate through the application to retrieve the details. We will be creating the Online food ordering database with Oracle as a platform.

Database includes Customers can place their orders from different food categories and restaurant staff will process the orders and deliver the requested order with an expected delivery time, and asking the customers for the reviews and depends on the order quantity providing the rewards to the customers where they can claim money.

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LIST OF ABBREVIATIONS

CSS	Cascading Style Sheets.
DBMS	Database Management System.
DOM	Document Object Model.
FTP	File Transfer Protocol.
HTML	Hypertext Mark-up Language.
JS	Java Script
MVC	Model View Controller
MVT	Model View Template
PC	Personal Computer.
PHP	Hypertext Pre-processor.
Laravel	A Progressive Framework.
RTP	Real-time Transport Protocol
SDLC	Software Development Life Cycle
UI	User Interface.
UX	User Experience.
VI	Visual Instrument.
WWW	World Wide Web
XAMPP	Cross-Platform (X), Apache (A), MySQL (M), PHP (P).

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CHAPTER 1

INTRODUCTION TO ONLINE FOOD ORDER

1.1. Introduction

The "Online Food Ordering System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Online Food Ordering System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Category, Food Item, Order, Payment, Confirm Order. Every Online Food Ordering System has different Food Item needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executives who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

1.2. Project Overview

Ordering is a process of the customers specifying what they want, so that the order can be recorded by using a note, form, computer system and many others, followed by passing it to the relevant department for processing and finally delivery of the services or products to the customers based on the order. An ordering system is referred as a set of detail methods that is being used in handling the ordering process. Food ordering can be computerized or done manually. A computerized ordering system or more often known as Ordering Management System (OMS) can be defined in several ways. An ordering management system is a computer software system used in a number of industries for order entry and processing. To discover information about this project, it is planned to having visits to the restaurant for observing the current ordering system. Besides that, browsing restaurant official websites is a must. Browsing through those websites can help to gather some information, such as, about the restaurants promotions, available foods and the prices. A research on food ordering system is considered to get better understanding about the system. This can be done by reading through the journals and articles. Nevertheless, reviewing up-to-date documentation such as restaurants menu and receipts will also be included in the plan.

1.3. Project Background

The online food ordering system is one of the latest services most fast food restaurants in the western world are adopting. With this method, food is ordered online and delivered to the customer. This is made possible through the use of electronic payment system. Customers pay with their credit cards, although credit card customers can be served even before they make payment either through cash or cheque. So, the system designed in this project will enable customers go online and place order for their food.

Due to the great increase in the awareness of internet and the technologies associated with it, several opportunities are coming up on the web. So many businesses and companies now venture into their business with ease because of the internet. One of such business that the internet introduced is an online food ordering system. In today's age of fast food and take out, many restaurants have chosen to focus on quick preparation and speedy delivery of orders rather than offering a rich dining experience. Until recently, most of this delivery orders were placed over the phone, but there are many disadvantages to this system. It is possible for anybody to order any goods via the internet and have the goods delivered at his/her doorsteps. But while trying to discuss the transfer method of the goods and services, attention is focused on the payment mode. In other words, how possible is it to pay for goods and services via the internet? This then leads to the discussion of the economic consequences of digital cash. What are the implementations from the view point of economic? Since the world is fast becoming a global village, the necessary tool for this process is communication of which telecommunication is a key player. A major breakthrough is the wireless² telephone system which comes in either fixed wireless telephone lines or the Global System of Mobile communication (GSM).

What I propose is an online ordering system originally designed for use in college cafeterias, but just as applicable in any food delivery industry. The main advantage of this system is that it greatly simplifies the ordering process for both the customer and the restaurant. The system also greatly lightens the load on the restaurants end, as the entire process of taking orders is automated. Once an order is placed on the webpage that will be designed, it is placed into the database and then retrieved, in pretty much real-time, by a desktop application on the restaurants end. Within this application, all items in the order are displayed, along with their corresponding options and delivery details, in a concise and easy to read manner. This allows the restaurant employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion. The greatest advantage of this system is its FLEXIBILITY.

1.4. Saving Time and Benefit

Smart restaurateurs are always looking for ways to streamline operations and have staff members work efficiently. One great way to do so is to offer online ordering to your customers. Having an online ordering system has many benefits for your business. When you implement an online ordering system for your restaurant, you can expect to save lots of time in the following ways.

1.4.1. Avoid Miscommunications With Customers

One time-saving benefit of ordering online is that it eliminates misunderstandings between humans. Too often orders that are taken over the phone can be misheard or written down wrong. Although these errors can be chalked-up to simple human error, it can result in unhappy customers. Traditionally, the way to fix these problems was to spend time fixing the order so it meets the customer's expectations.

Preparing an entire new meal for someone takes time, often while the customer is waiting and hungry. When an order is placed online, your customers have the opportunity to order their meals to their specifications and submit them online with just one click. The restaurant then as easy-to-read and easy-to-follow specifications on how to prepare the food exactly how the customer wants it. So, no time is wasted re-preparing food that was prepared incorrectly.

1.4.2. Updates Are Quick

Restaurants often update their menu offerings. Whether it is to add new items, remove old ones, or change the daily specials menu updates are necessary and frequent. Without an online ordering system, the menu update process can be long and arduous. In fact, some restaurants do not bother, and simply have to tell call-in customers "we don't have that any longer" when they order something that is no longer on the menu, which just makes the restaurant look bad.

With an online ordering system, menu updates are automated and fast. In fact, they can be done in minutes rather than hours. A restaurant can save several hours over the course of just one week, and that time can be spent on other aspect that are also important to the restaurant.

1.4.3. Instant Marketing

As a restaurant owner, you are likely always trying to market your restaurant in order to gain new customers and retain current ones. Strong and successful marketing campaigns can take lots of time to plan and execute. However, online ordering systems easily provide you with instant advertising.

Spending a few minutes putting your online ordering system on your website and social media pages creates advertising for your business without expending much time or effort at all. Your online menu will attract both present and prospective customers and help you build your business. All of this can be done quickly and conveniently within minutes. That's a lot faster than trying to craft and implement an entire marketing campaign.

1.4.4. Get Paid Faster

Despite the fact that you opened a restaurant because you love food and wanted to perform a service for people, the simple fact is that you own a business to make money. It is simply a fact of business that you need money to sustain it, so you want to make sure you get the money that is owed to you in a timely manner. When you implement an online ordering system, you can receive your money within one day's time.

If you choose the right online ordering service, such as Orders2Me, the money can go right to you rather than through the service, thus saving even more time. Some services take up to four weeks to get your money to you. That is an excessive amount of time to wait when you need the money to put back into your business. So, when cash flow is important to the sustenance of your business (and when isn't it?) choose your online ordering service wisely, and go with one that has a short turnaround time for the receipt of your money.

Now is the time to bring your restaurant into the technological age. There is no doubt that most, if not all, of your customers are almost constantly connected to the world through their computers, phones, and mobile devices. So, it is simply logical to reach them where they already are and offer the ease and convenience of online ordering.

Not only is it beneficial for your customers, implementing an online ordering system will save you and your staff an incredible amount of time. The time that is saved with a more streamlined and efficient online ordering system can be used to work on other projects that can better benefit your restaurant, or even allow you to take a night off every week.

1.5. Project Objectives

The main objective of the Online Food Ordering System is to manage the details of Item Category, Food, Delivery Address, Order, Shopping Cart. It manages all the information about Item Category, Customer, Shopping Cart, Item Category. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Item Category, Food, Customer, Delivery Address. It tracks all the details about the Delivery Address, Order, Shopping Cart, Customer, Order.

Features Of Online Food Ordering System Are As Follows:

- Provides the searching facilities based on various factors. Such as Item Category, Delivery Address, Order, Shopping Cart.
- The transactions are executed in off-line mode, hence on-line data for Item Category, Food capture and modification is not possible.
- It tracks all the information of Food, Customer, Order etc.
- Manage the information of Food.
- Shows the information and description of the Item Category, Delivery Address.

- All the fields such as Item Category, Delivery Address, Shopping Cart are validated and does not take invalid values.
- It generates the report on Item Category, Food, Customer.
- Provide filter reports on Delivery Address, Order, Shopping Cart.
- To increase efficiency of managing the Item Category, Food.
- It deals with monitoring the information and transactions of Order.
- Manage the information of Item Category.
- Editing, adding and updating of Records is improved which results in proper resource management of Item Category data.
- Manage the information of Order.
- Integration of all records of Shopping Cart.
- To develop a system that will surely satisfied the customer service.
- To design a system able to accommodate huge amount of orders at a time.
- To evaluate its performance and acceptability in terms of security, user-friendliness, accuracy and reliability.
- To improve the communication between the client and the server and minimize the time of ordering.

1.6. Aim and Scope of the Project

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

Nowadays everyone is having a busy schedule whether it is urban areas 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 time to have their meals properly. 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, the food ordering system these days has one of the fastest-growing markets, though being a new idea. In this project, we have developed something like the same to learn from and serve the nation in a much better way possible. Nowadays, people are more regular to dine-in at the 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 ready-made foods that people.

Therefore, this system enhances the speed of getting food on a person's plate and the quality and manner of taking the order from the customer. It provides a better communication platform. The

user's details are stored using electronic media. The online food ordering system provides the menu online and the customers can easily place the order by just clicking the mouse or by touching a button on their smartphones.

Also, with the food ordering system online, people can easily track their orders, and the admin can maintain the customer's database and advance the food delivery system. This food ordering system allows the user to select the desired food items from a list of available menu items provided by the local hotel or restaurant.

The user can place orders for the food items of their like from the list. The payment can be made online or pay-on-delivery system. The user's details are maintained confidentially because it maintains a separate account for each user. An id and password are provided for each user.

And several encryption techniques have also been used on the server-side to protect the card details. Therefore, it provides a more secure and safe ordering system.

CHAPTER 2

BACKGROUND AND RELATED WORK

2.1. Introduction

When making a website, there's a lot to do! As well as writing PHP, Framework, HTML and CSS, JavaScript, Bootstrap and many so on tools may be needed to test a new website. It is mandatory to use programming languages and tools for developing any website. Our Find Lawyer system has been developed using PHP, HTML, CSS, JavaScript, Bootstrap and MySQL. This project helps people for saving their time, having no stress, no bargaining. People can find a different kind of lawyer via reviews and ratings.

2.2. Languages and Tools

2.2.1. HTML

HTML originally stands for "Hypertext Markup Language." HTML is the language used to create webpages. "Hypertext" refers to the hyperlinks that an HTML page may contain. "Markup language" refers to the way tags are used to define the page layout and elements within the page. HTML is mainly used to design webpages using markup language. This language performs in the browser to manipulate text, images, and other content in order to display in the required format. Hypertext indicates the connection between the webpages where a markup language indicates the text documentation among the tags that define the structures of the webpages. It makes note for the computer and annotates the text so that the machine can understand it and manipulates text accordingly. The language uses tags to define what manipulation has to be done on the text. HTML uses predefined tags and elements which tell the browser how to properly display the content. If omitted, the browser applies the effect of the opening tag until the end of the page.

2.2.2. CSS

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. CSS has been designed to separate the presentation and content including layout, colors and fonts. This separation gives more flexibility and control in the certain of presentation characteristics improves content accessibility and also improves page load speed between the pages that share files and its formatting. It can enable multiple web pages for sharing formatting the relevant CSS in a separate .css file that lower complexity and repetition in the structural content as well as enabling the .css file to be cached. Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice, and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.

2.2.3. PHP

PHP is a widely-used open-source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. Instead of lots of commands to output, PHP pages contain HTML with embedded code. Earlier, PHP mainly stood for Personal Home Page, but at present, it stands for “Hypertext Preprocessor”. PHP is very important for the students and working professionals to become software engineer and for the working on the web development domain. This language is mainly used to manage dynamic content, database, session tracking, and even built entire sites. It includes a number of popular databases such as MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. It supports a large number of major protocols including POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures, making entire development a possibility for the first time.

2.2.4. DATABASE

A database is an organized collection of data, generally stored and accessed electronically from a computer system. Where databases are more complex, they are often developed using formal design and modelling techniques. **The database management system (DBMS)** is the software that interacts with end-users, applications, and the database itself to capture and analyze the data. The DBMS software additionally encompasses the core facilities provided to administer the database. The total of the database, the DBMS, and the associated applications can be referred to as a "database system". Often the term "database" is also used to loosely refer to any of the DBMS, the database system, or an application associated with the database.

Computer scientists may classify database-management systems according to the database models that they support. Relational databases became dominant in the 1980s. These model data as rows and columns in a series of tables and the vast majority use SQL for writing and querying data. In the 2000s, non-relational databases became popular, referred to as NoSQL because they use different query languages. For this project, we will use database management systems (MySQL). And for query our database we will use Structured query language (SQL).

2.2.5. JAVASCRIPT

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. JavaScript was first known as LiveScript. Later, its name was changed to JavaScript by Netscape because of the excitement being generated by Java. After that, the

general purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers. Java Script client side mechanisms have many opportunities over traditional CGI server-side scripts. This code is executed when user submits the form and

if the submitted values are valid, then they would be submitted to the Web browser. JavaScript does not require any expensive development tools. It can be compiled in simple text editors like Notepad, Notepad++ and so on. It doesn't require to buy any compiler. It is an interpreted language inside the context of a web browser.

2.2.6. MYSQL DATABASE

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds. Other kinds of data stores can also be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those type of systems. MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons. MySQL is released under an open-source license. So, you have nothing to pay to use it. MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages. It uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including PHP, PERL, C, C++ and JAVA etc. It also works very quickly and works well even with large data sets. MySQL is very friendly to PHP, the most appreciated language for web development. It supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB). MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments. [6]

2.2.7. XAMPP

XAMPP is an abbreviation where X stands for Cross-Platform, A stands for Apache, M stands for MYSQL, and the Ps stand for PHP and Perl, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command line executables along with modules such as Apache server, MariaDB, PHP, and Perl. XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL. The detailed description of these components is given below.

2.2.8. VISUAL STUDIO CODE

Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality. Visual Studio Code manages the following platform features and components:

- User settings
- Windows (placement, appearance, etc.)
- Storage
- Integrated development tools
- Framework wizard

Visual Studio Code uses components, also known as modules, to enable software development. Visual Studio Code dynamically installs modules and allows users to download updated features and digitally authenticated upgrades. Visual Studio Code IDE modules include NetBeans Profiler, a Graphical User Interface (GUI) design tool, and Visual Studio Code JavaScript Editor. Visual Studio Code framework reusability simplifies Java Swing desktop application development, which provides platform extension capabilities to third-party developers.

2.3. Review Website Quality

Accepted that the quality of a system is dependent on the quality of users' experience directly and also considering that the quality of user experience is the most concise way of explaining the usability, now a brief explanation of review website usability will be presented.

Website qualities are:

Serviceability:

Serviceability, maintainability, implies their ability to be quick, simple, and secure when it comes to websites:

- Changed
- Expanded
- Updated
- Fixed

Usability:

The website must be easy to use and support the user - not go against.

Readability:

Reading the simplicity of the text to read and understand. Short words, paragraphs, and verb forms are used. All clutter and redundant words should be excluded and the use of adware and adjectives should be limited where possible.

Social media integration:

The integration of social media into the website offers further opportunities for users to share and communicate with content.

Quality of comments:

Material is viewed as high-quality with a high number of comments. On the other hand, unrelated spam comments could damage rankings and make visitors look bad in their eyes.

Errors in Grammar:

People make grammatical errors, punctuation mistakes, and spelling errors because of social media applications. In most cases, people purposely type incorrect spellings to communicate their feelings about the product. This makes it hard for the computer to find out the exact meaning behind a customer's analysis.

2.4. Accessibility

Accessibility is the idea of whether anyone can access our website, regardless of whether they experience it. This refers to the ease with which a visitor via the website can see, read, and order food. If there is a query or problem with someone visiting the website, they do not have to look for customer service options. This should be available readily. It makes the visitor feel uneasy when customer service is unreachable. Two forms of users are accessible on this website. One user is non-registered and another user is registered. Both users can read comments, but non-registered users can't comment and can't rate, but ratings and comments can be given by registered users as feedback.

2.5. Privacy and Security

It's been a great concern that internet users have no concern over how websites are collecting, using, and sharing personally identifiable information. User feel a growing lack

of control over how their personal information is used by companies and find it unacceptable for marketers to sell information about them. Consequences of such concerns may vary from not purchasing at the website, requesting to be taken off the mailing list, spreading negative word of the company, etc. The importance of consumer's privacy concerns has been found recently and its impact is big. Security issues are centered on the transmission and storage of transactional information by a website. As in the case of privacy, consumers experience a lack of control over the payment information provided to a website. Security issues are shared by the websites and consumers. This has led many websites to resolve technical issues related to security. Despite these measures, visitors may still perceive the website to be unsafe. Reduction in perceptions of security concerns affects web usage and also enhances satisfaction with the website. This website is independent of the platform. It can easily be used by both buyers and sellers. This website does not store any user data or any personal data and never promotes any form of brand.

CHAPTER 3

METHODOLOGY

3.1. Introduction

The methodology is the overall approach that underpins your research. You need to briefly explain this, showing you understand the meaning of quantitative and qualitative approaches. The methods are the tools of data collection, such as questionnaires or interviews.

3.2. Iterative Software Model

An iterative life cycle model does not attempt to start with a full specification of requirements. Instead, development begins by specifying and implementing just part of the software, which is then reviewed to identify further requirements. This process is then repeated, producing a new version of the software at the end of each iteration of the model. The following illustration is a representation of the Iterative and Incremental model –

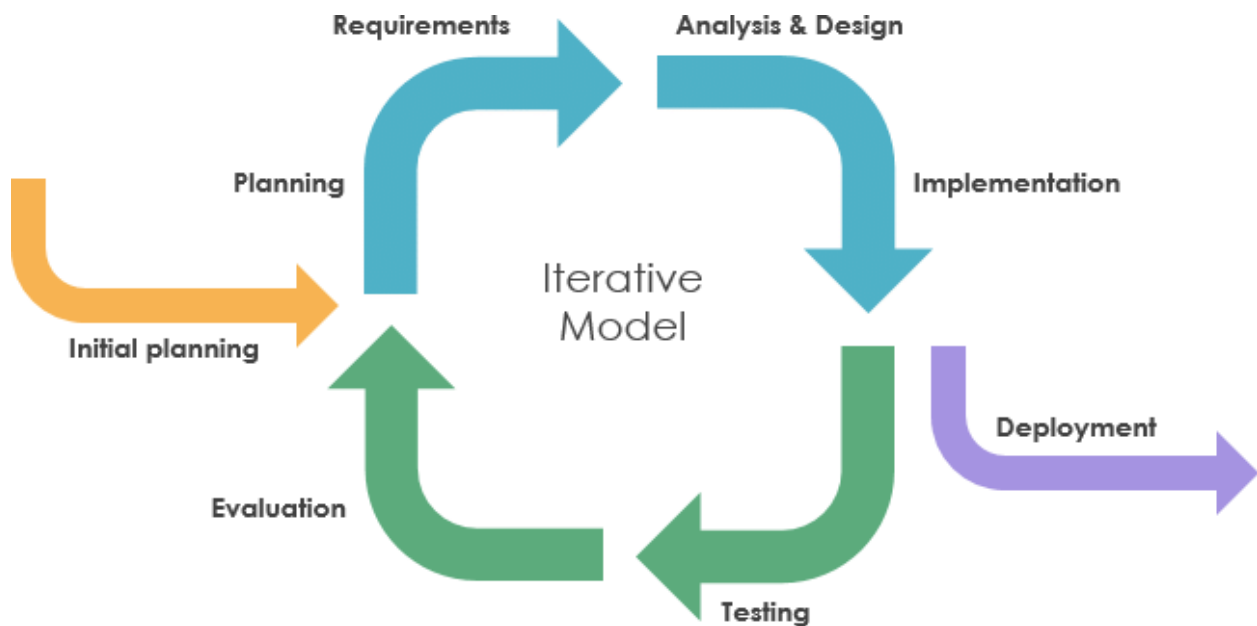


Figure 3.1: Iterative Model

Iterative and Incremental development is a combination of both iterative design or iterative method and incremental build model for development. "During software development, more than one iteration of the software development cycle may be in progress at the same time." This process may be described as an "evolutionary acquisition" or "incremental build" approach. In this incremental model, the whole requirement is divided into various builds. During each iteration, the development module goes through the requirements, design, implementation and testing phases. Each subsequent release of the module adds function to the previous release. The process continues till the complete system is ready as per the requirement.

The key to a successful use of an iterative software development lifecycle is rigorous validation of requirements, and verification & testing of each version of the software against those requirements within each cycle of the model. As the software evolves through successive cycles, tests must be repeated and extended to verify each version of the software.

3.3. Proposed Methodology

As a part of the proposal narrative, the methodology is where you can clearly outline how you will use the requested funds to accomplish your project's objectives. It is the component in the proposal narrative where you bridge the gap between the objectives and the eventual outcome. It is also where you demonstrate your project's feasibility by detailing your experiences and resources.

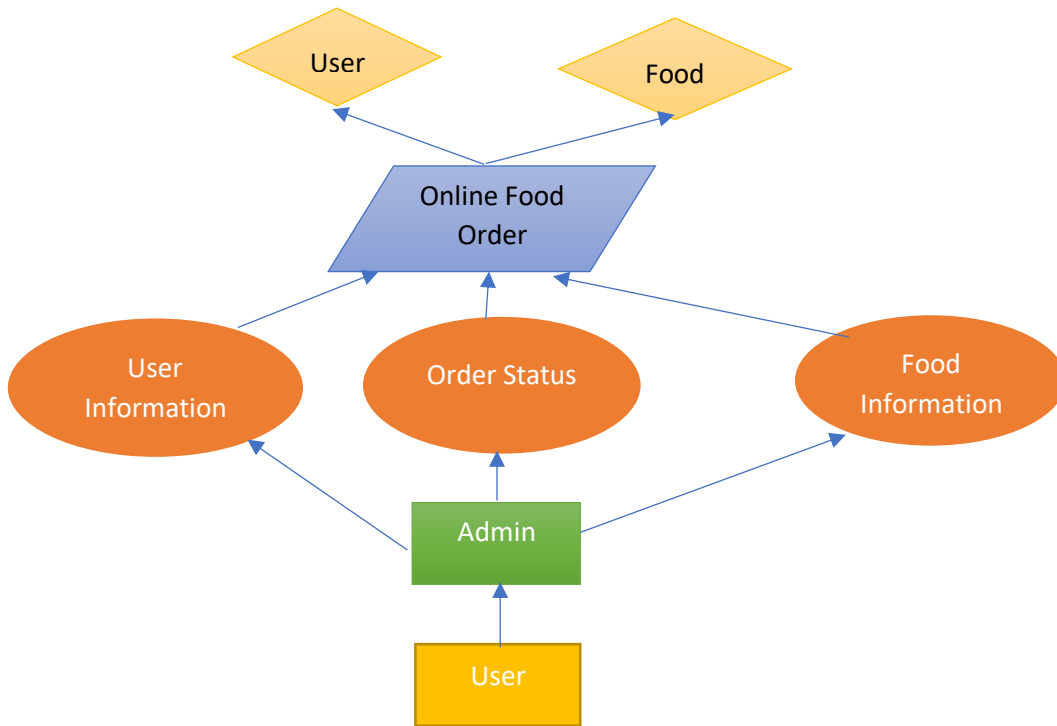


Figure 3.2: Proposed Model

The bulk of your methodology discussion should contain detailed descriptions of what project activities will be conducted and how they will be carried out. As your “plan of attack,” your proposed methodology shows the funding agency that you have a logical and well-thought-out plan to carry out reasonable project activities that will lead to the desired outcome. The methods you describe should be presented in a coherent manner, naturally progressing from start to finish.

In addition, the methodology should be justifiable or have some form of expert approval to support the viability of the project. This could be documented through studies related to feasibility, market analysis, site control, surveys, data collection, and other forms of justification. The methodology should also demonstrate the resources that you have available to achieve your project objectives, such as a description of personnel needed and how they will be selected. You can use this section of the narrative to detail any financial and/or in-kind resources and the clientele to be served. Clearly documenting any and all resources available to a project will validate your ability to carry out and accomplish a project.

Another important issue to keep in mind is that all project needs must be reflected in the project budget. Using the example above, if the project requires collecting data on the incidence of homelessness in a community, the costs associated with surveying, compensating personnel, and other expenses should be detailed as part of the total project cost within a proposed budget.

Having a logical project methodology within a proposal narrative is a vital part of a complete proposal narrative. Painting a vivid picture of how a project will be accomplished will not only demonstrate a carefully planned application, but will also provide the funding agency with evidence of your capacity to produce the desired results. In other words, submitting an application with a detailed yet clear project methodology will increase your chances of securing the funding needed to make your project possible.

3.4. System Planning

First of all, in the planning phase, the system for development will be identified and selected to solve the problem. Several studies are needed to have a clearer understanding of the system requirement. Besides, the SWOT analysis techniques will be used to interpret the strength, weaknesses, opportunities, and limitations of the basic requirement for the proposed solution. Next, an information table will be created to have a clear understanding of what should do according to the project life cycle. On this project, we worked for 90 days. In the first phase discovering and planning took 30 days. The Documentation includes the design of the system; this served as a reference to allow us to develop the prototype of the proposed project more efficiently. Started on the 31st day, the prototype of the proposed project started developing. After that, the full project development was started in the next semester and has been continued until the testing phase. The system was being tested and debugged to solve any error found during testing. The feedback we got from the system tester, had been collected and used as the reference in the system.

3.5. System Analysis

In the process of system review, an interview with the potential user of the proposed solution will be performed to gather and collect relevant information for the proposed system. Next, system specifications such as user requirements, software, and hardware requirements are generated and specified based on the requirements of the system, project scope, and target.

Analysis requires the determination and specification of specifications. Analysis of systems is a problem-solving method that breaks down a system into its component to study how well certain parts function and interact to achieve their purpose.

3.6. Requirement Analysis

Analysis of system engineering and software engineering specifications involves certain activities that evaluate the needs or criteria to be met for a new or changed product or project, taking into consideration the often-conflicting requirements of the different stakeholders, evaluating, recording, validating, and handling requirements for software or systems.

Examination of specifications is important for a system or software project to succeed. The specifications should be recorded, actionable, observable, testable, traceable, and relevant to the business needs or opportunities identified and specified to a level of detail appropriate for system design.

3.7. System Requirements

Computer system is made up of units that are put together to work as one in order to achieve a common goal. The requirements for the implementation of the new system are:

- The Hardware
- The Software

Software Requirement

For the effective implementation of the new system, the following software has to be installed on the computer

- Windows 7, Windows 10
- MySql
- PhpMyadmin
- Visual studio Code

Hardware Requirements

- 4 GB RAM and above
- 100 GB HDD
- Monitor
- Printer
- Scanner
- Keyboard
- Intel Pentium
- Mouse

CHAPTER 4

REQUIREMENT ANALYSIS AND SYSTEM SPECIFICATION

4.1. Software Requirements

The software requirement features are follows –

4.1.1. Data Requirements

Data requirements specify the set of data that is involved in any project. The login credentials for registering the website and the food details are the most important of information for this project. The program will not be able to complete the transaction without this information.

4.1.2. Functional Requirements

The properties that must be present in the final system are known as functional requirements. To use any website, we must go to any browser. Depending on the store or seller, the website could be free or charged. He or she logs in after that.

4.1.3. Performance Requirements

The performance requirements that should be considered while creating any system include response speed, scalability, platform dependencies, and tolerance. When the user interacts with the website, the system should be able to reply rapidly. When we wish to expand the website, it should be constructed in such a way that it is scalable enough to accept new features. The software from the project's design phase onwards, it should run in all of the required software and hardware requirements. In addition, the program's tolerance rate (fault tolerance) should be set higher in the event of network challenges, connectivity issues, and when the website crashes or quits. When the system is up and running, it should be able to provide information to the user about any of those difficulties.

4.1.4. Testing and Maintainability Requirements

In a test environment, the website should be able to meet all of the conceivable good and bad test scenarios. When a user uses an website, it should be created in such a way that it does not have any faults or crashes. When we expand the code or add new functionalities to the existing website, it should be able to extend itself.

4.2. Validation

Before releasing the website to users, it is critical to validate it. If information supplied by users is not validated, it may be redundant, formatted incorrectly, and unmaintainable. For instance, we can validate a mobile number so that it only contains digits and characters. If the validation isn't done, there's a probability the user will make a mistake. The authorized person is unable to contact the appropriate person in the event of an emergency. Validations for all fields that are used to save information in any application are also essential. Error warnings are displayed when fields such as login, email, password, and cellphone number are not correct. The username must not contain any digits, the password must be at least six letters long, the email must be a legitimate address, and if the email address has already been registered, an error notice will appear stating that the email address already exists. The mobile number should only contain digits and when looking for an item by name, the search field should not contain any digits.

CHAPTER 5

SYSTEM DESIGN

5.1. Introduction

The design phase is concerned with the physical construction of the system. Included are the design or configuration of the network (hardware, operating system, programming, etc.), design of user interfaces (forms, reports, etc.), design of system interfaces (for communication with other systems), and security issues. The proposed design must be tested for performance, and to ensure that it meets the requirements outlined during the analysis phase. In other words, the main objective of this phase is to transform the previously defined requirements into a complete and detailed set of specifications that will be used during the next phase. Some of the activities that need to take place during the design phase are:

- Design the application
- Design and integrate the network
- Design and integrate the database
- Create a contingency plan
- Review the design
- Articulate the business processes and procedures
- Establish a transition strategy
- Review final design

5.2. System Architecture Design

A system architecture or systems architecture is the conceptual model that defines the structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system.

System architecture can comprise system components, the externally visible properties of those components, the relationships (e.g. the behavior) between them. It can provide a plan from which products can be procured, and systems developed, that will work together to implement the overall system. There have been efforts to formalize languages to describe system architecture; collectively these are called architecture description languages.

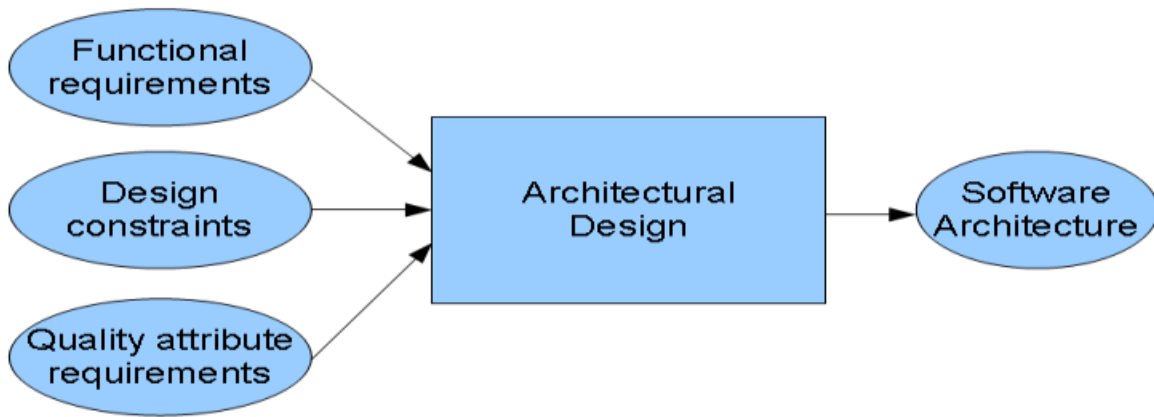


Figure 5.1: Software Architecture Design

Software architecture refers to the high-level structures of a software system, the discipline of creating such structures, and the documentation of these structures. It is the set of structures needed to reason about the software system. Each structure comprises software elements, relations among them, and properties of both elements and relations. The architecture of a software system is a metaphor, analogous to the architecture of a building.

5.3. Website Diagram

The main aim of the system design is to explain the scenario using use case diagrams. Use case diagrams clarify the flow of the application by deriving the use cases for all the functionalities in form of diagram for the users.

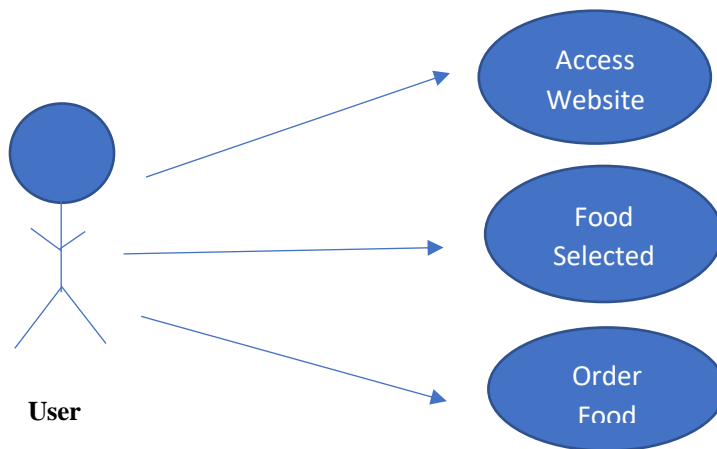


Figure 5.2 : Use Case Diagram For User

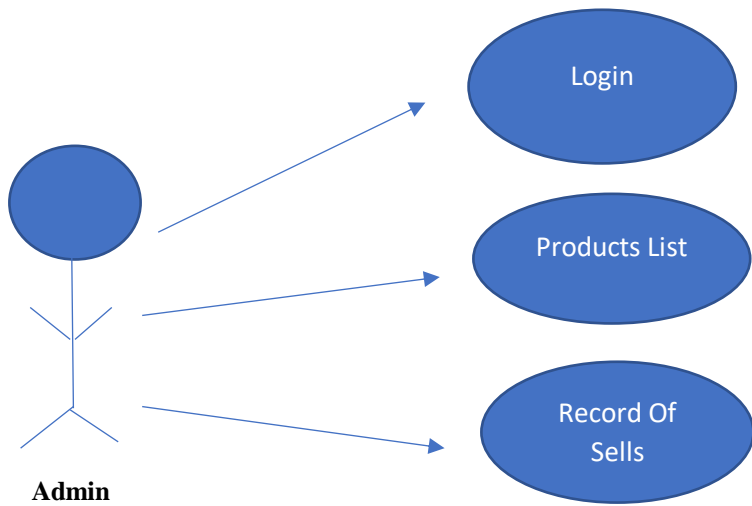


Figure 5.3 : Use Case Diagram For Admin

5.4. Flow Chart

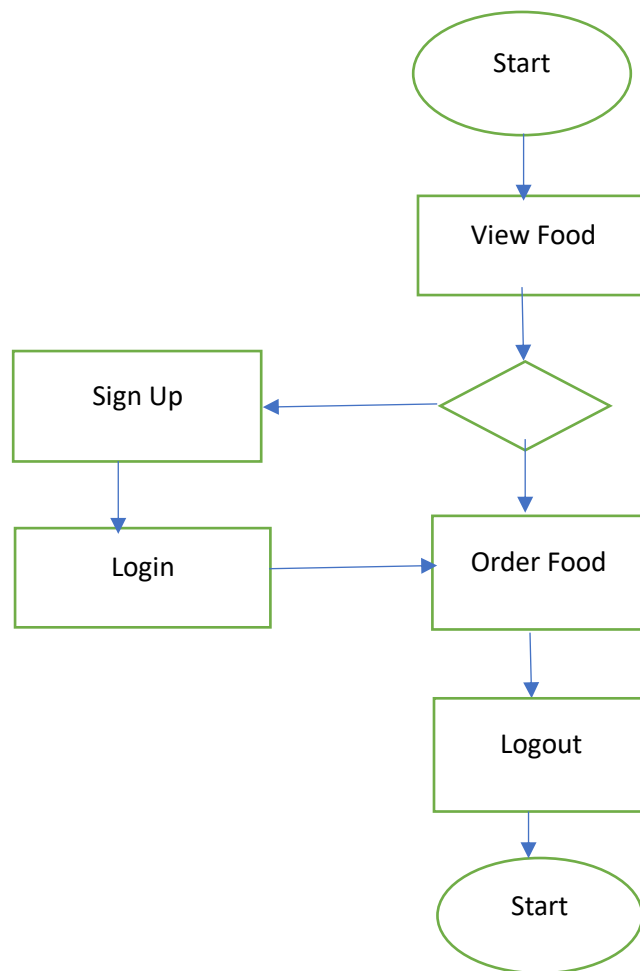


Figure 5.4: User Data Flow For Online Food Order

5.5. User Interface Design

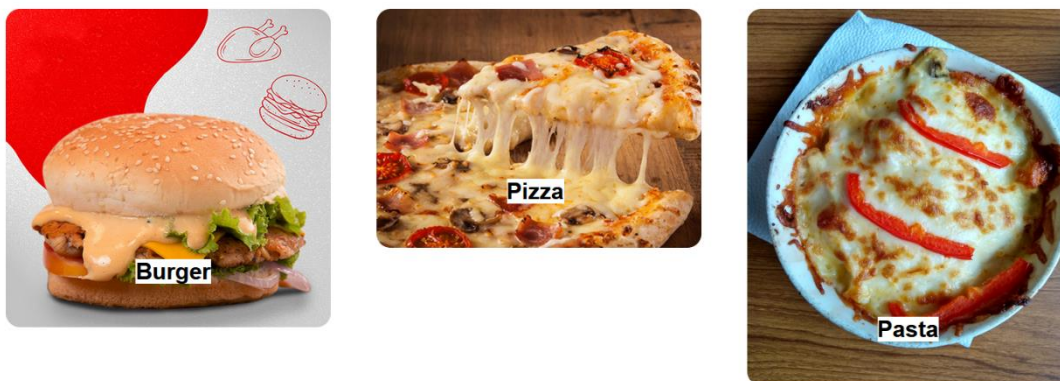
Any user can visit the food order site. There are food category, food item, contact page and admin panel in the website. Customer can choose food from category and food menu and order the desirable food. Customer also can order food directly by giving information without create account. However, customer can contact us through email and mobile phone.



Explore Various Food Categories



Explore Various Food Categories



Our Food Menu



Burger
TK 120.00
Chicken Burger
[Order Now](#)



Burger
TK 150.00
Beef Burger
[Order Now](#)



Pizza
TK 200.00
Chicken Pizza
[Order Now](#)



Pizza
TK 350.00
Beef Pizza
[Order Now](#)



Noodles
TK 100.00
Noodels
[Order Now](#)



Sub Sandwich
TK 120.00
Sub Sandwich
[Order Now](#)

[See All Foods](#)



Noodles
TK 100.00
Noodels
[Order Now](#)



Sub Sandwich
TK 120.00
Sub Sandwich
[Order Now](#)



Pasta
TK 200.00
Chicken Pasta
[Order Now](#)



Pasta
TK 250.00
Beef Pasta
[Order Now](#)



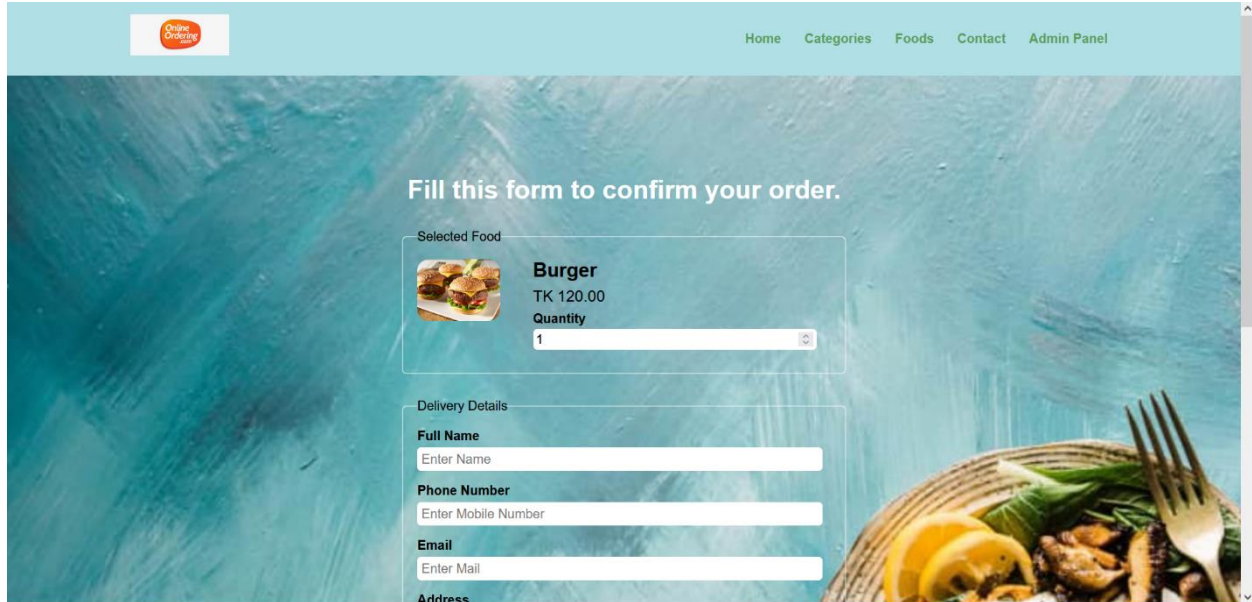
Cold Coffee
TK 150.00
Cold Coffee
[Order Now](#)



Cold Drink
TK 50.00
Coca Cola
[Order Now](#)

5.6. Food Order

Customer can choice the food and order from our website. It is very easy to order food everyone.




Order Online

Home Categories Foods Contact Admin Panel

Fill this form to confirm your order.

Selected Food

 **Burger**
TK 120.00
Quantity
1

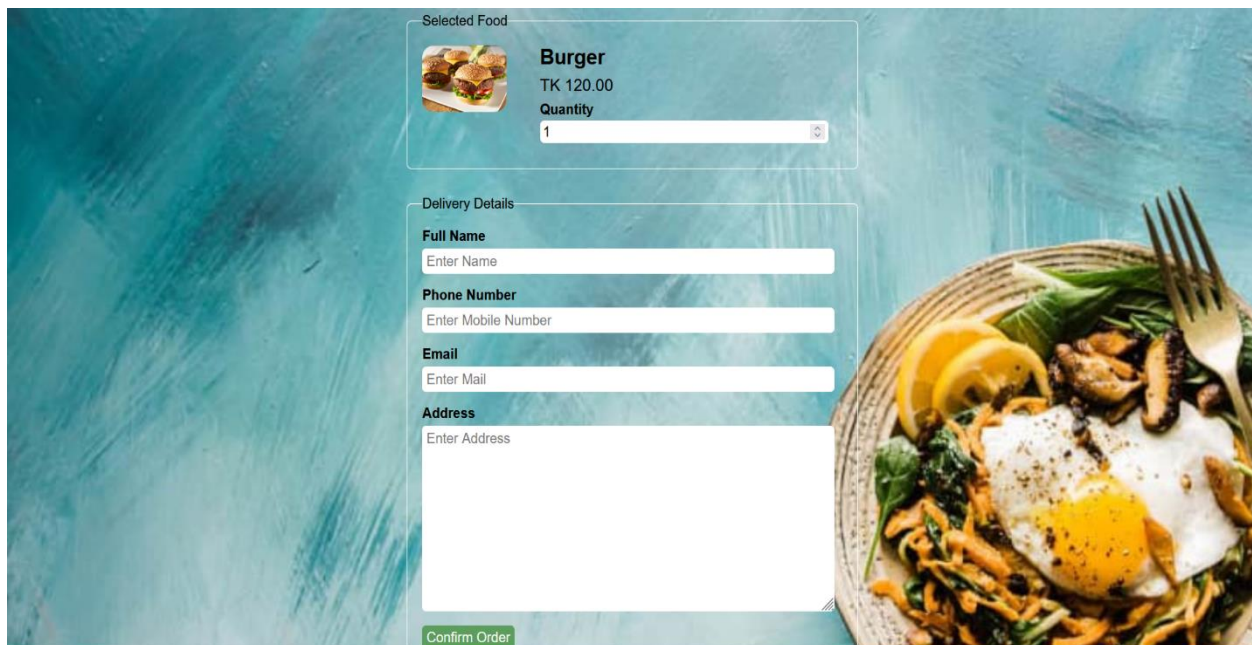
Delivery Details

Full Name
Enter Name


Phone Number
Enter Mobile Number

Email
Enter Mail

Address



Selected Food

 **Burger**
TK 120.00
Quantity
1

Delivery Details

Full Name
Enter Name

Phone Number
Enter Mobile Number

Email
Enter Mail

Address
Enter Address

Explore Foods



Contact Us

Address: 147/l, Green Road, Dhaka

Contact: 01758745889, 01853325814, 01797506292, 01775758889

Email: riyadh.cse94@gmail.com

5.7. Admin Interface

Admin can add, edit, delete food items in the admin dashboard.

Admin Login

Username:

Password:

[Login](#)

[Dashboard](#) [Category](#) [Food Items](#) [Order Section](#) [Manage Admin](#) [Logout](#)

Administrator Dashboard

Login Successful.

7
Food Categories

10
Foods

2
Total Orders

Taka
Revenue Generated

2
Pending Orders

0
On Delivery Orders

0
Cancelled Orders





1
System Administrator

2022 Developed By Reyad, Rakib, Asad, Adnan

[Dashboard](#) [Category](#) [Food Items](#) [Order Section](#) [Manage Admin](#) [Logout](#)

Manage Food Category

[Add Category](#)

S.N.	Title	Image	Featured	Active	Actions
1.	Cold Drink		Yes	Yes	Update Category Delete Category
2.	Cold Coffee		Yes	Yes	Update Category Delete Category
3.	Noodles		Yes	Yes	Update Category Delete Category
4.	Sub Sandwich		Yes	Yes	Update Category Delete Category

2.	Cold Coffee		Yes	Yes	Update Category	Delete Category
3.	Noodles		Yes	Yes	Update Category	Delete Category
4.	Sub Sandwich		Yes	Yes	Update Category	Delete Category
5.	Pasta		Yes	Yes	Update Category	Delete Category
6.	Pizza		Yes	Yes	Update Category	Delete Category
7.	Burger		Yes	Yes	Update Category	Delete Category

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[Dashboard](#) [Category](#) [Food Items](#) [Order Section](#) [Manage Admin](#) [Logout](#)

Manage Food Order

#	Order Date	Food	Price	Qty	Total	Status	Customer	Contact	Email	Address	Actions
1	2022-09-07 08:34:26	Sub Sandwich	TK 120.00	2	TK 240.00	Ordered	Asaduzzaman Asad	01775758889	asad@gmail.com	Dhaka	Update Order
2	2022-09-07 08:33:31	Cold Coffee	TK 150.00	1	TK 150.00	Ordered	Md Adnan	01853325814	adnan@gmail.com	Dhaka	Update Order
3	2022-09-07 08:32:33	Pizza	TK 200.00	3	TK 600.00	Ordered	Rakib Hasan	01797880275	rakib@gmail.com	Dhaka	Update Order
4	2022-09-07 08:30:55	Burger	TK 150.00	2	TK 300.00	Ordered	Riyadh Hasan	01758745889	riyadh@gmail.com	Dhaka	Update Order

2022 Developed By Reyad, Rakib, Asad, Adnan

[Dashboard](#) [Category](#) [Food Items](#) [Order Section](#) [Manage Admin](#) [Logout](#)

Manage Admin

Admin Added Successfully.

[Add Admin](#)

S.N.	Full Name	Username	Actions
1.	Asad	admin	Change Password Update Admin Delete Admin
2.	Reyad	admin	Change Password Update Admin Delete Admin
3.	Adnan	admin	Change Password Update Admin Delete Admin
4.	Rakib	admin	Change Password Update Admin Delete Admin

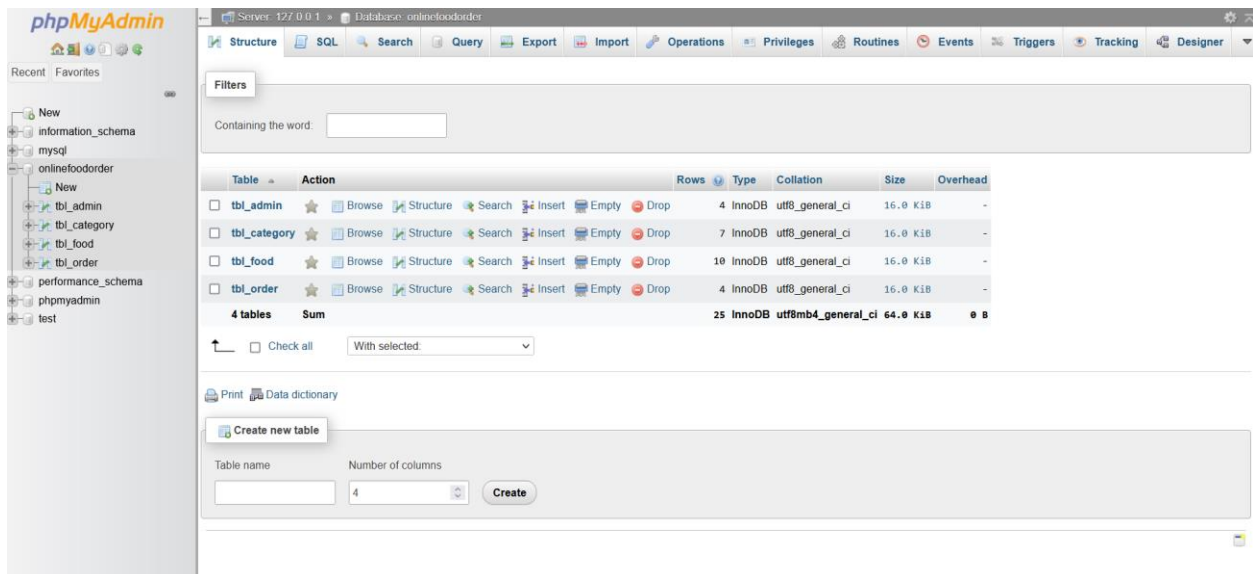
2022 Developed By Reyad, Rakib, Asad, Adnan

5.8. Database Name

Database name is set as “online food order” according to the name the project “Online Food Order”. The database is designed according to the project development and system analysis. The tables are created under the database to store the products with details and handle all the valuable information for the administrative and users. The database consists

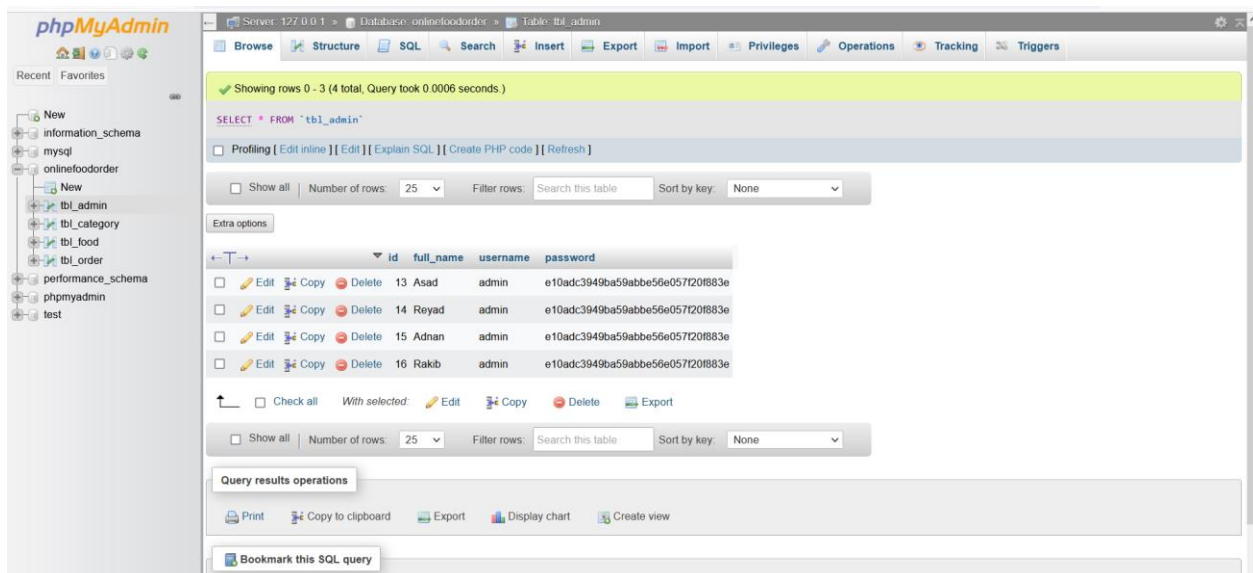
of following tables ---

- tbl_admin
- tbl_category
- tbl_food
- tbl_order



The screenshot shows the phpMyAdmin interface for the 'onlinefoodorder' database. The left sidebar displays the database structure, including tables: tbl_admin, tbl_category, tbl_food, and tbl_order. The main area shows a table structure overview with the following data:

Table	Action	Rows	Type	Collation	Size	Overhead
tbl_admin	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8_general_ci	16.0 KIB	-
tbl_category	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8_general_ci	16.0 KIB	-
tbl_food	Browse Structure Search Insert Empty Drop	10	InnoDB	utf8_general_ci	16.0 KIB	-
tbl_order	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8_general_ci	16.0 KIB	-
4 tables	Sum	25	InnoDB	utf8mb4_general_ci	64.0 KIB	0 B



The screenshot shows the phpMyAdmin interface for the 'tbl_admin' table. The main area displays the table data with the following columns: id, full_name, username, and password. The data is as follows:

id	full_name	username	password
13	Asad	admin	e10adc3949ba59abbe56e05720f883e
14	Reyad	admin	e10adc3949ba59abbe56e05720f883e
15	Adnan	admin	e10adc3949ba59abbe56e05720f883e
16	Rakb	admin	e10adc3949ba59abbe56e05720f883e

phpMyAdmin

Server: 127.0.0.1 Database: onlinefoodorder Table: tbl_admin

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	full_name	varchar(100)	utf8_general_ci		No	None			Change Drop More
3	username	varchar(100)	utf8_general_ci		No	None			Change Drop More
4	password	varchar(255)	utf8_general_ci		No	None			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	4	A	No	

phpMyAdmin

Server: 127.0.0.1 Database: onlinefoodorder Table: tbl_category

Showing rows 0 - 6 (7 total, Query took 0.0005 seconds)

```
SELECT * FROM `tbl_category`
```

Number of rows: 25

	id	title	image_name	featured	active
<input type="checkbox"/>	28	Cold Drink	Food_Category_438.jpg	Yes	Yes
<input type="checkbox"/>	29	Cold Coffee	Food_Category_105.jpg	Yes	Yes
<input type="checkbox"/>	30	Noodles	Food_Category_823.jpg	Yes	Yes
<input type="checkbox"/>	31	Sub Sandwich	Food_Category_480.jpg	Yes	Yes
<input type="checkbox"/>	32	Pasta	Food_Category_447.jpg	Yes	Yes
<input type="checkbox"/>	33	Pizza	Food_Category_772.jpg	Yes	Yes
<input type="checkbox"/>	34	Burger	Food_Category_589.jpg	Yes	Yes

phpMyAdmin

Server: 127.0.0.1 Database: onlinefoodorder Table: tbl_category

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	title	varchar(100)	utf8_general_ci		No	None			Change Drop More
3	image_name	varchar(255)	utf8_general_ci		No	None			Change Drop More
4	featured	varchar(10)	utf8_general_ci		No	None			Change Drop More
5	active	varchar(10)	utf8_general_ci		No	None			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	6	A	No	

phpMyAdmin

Server: 127.0.0.1 - Database: onlinefoodorder - Table: tbl_food

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

```
SELECT * FROM `tbl_food`
```

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	title	description	price	image_name	category_id	featured	active
<input type="checkbox"/>	14	Burger	Chicken Burger	120.00	Food-Name-8537.jpg	34	Yes	Yes
<input type="checkbox"/>	15	Burger	Beef Burger	150.00	Food-Name-571.jpg	34	Yes	Yes
<input type="checkbox"/>	16	Pizza	Chicken Pizza	200.00	Food-Name-5348.jpg	33	Yes	Yes
<input type="checkbox"/>	17	Pizza	Beef Pizza	350.00	Food-Name-4844.jpg	33	Yes	Yes
<input type="checkbox"/>	18	Noodles	Noodels	100.00	Food-Name-2671.jpg	30	Yes	Yes
<input type="checkbox"/>	19	Sub Sandwich	Sub Sandwich	120.00	Food-Name-8846.jpg	31	Yes	Yes
<input type="checkbox"/>	20	Pasta	Chicken Pasta	200.00	Food-Name-7594.jpg	32	Yes	Yes
<input type="checkbox"/>	21	Pasta	Beef Pasta	250.00	Food-Name-7513.jpg	32	Yes	Yes
<input type="checkbox"/>	22	Cold Coffee	Cold Coffee	150.00	Food-Name-5122.jpg	28	Yes	Yes
<input type="checkbox"/>	23	Cold Drink	Coca Cola	50.00	Food-Name-1175.jpg	28	Yes	Yes

phpMyAdmin

Server: 127.0.0.1 - Database: onlinefoodorder - Table: tbl_food

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	title	varchar(100)	utf8_general_ci		No	None			Change Drop More
3	description	text	utf8_general_ci		No	None			Change Drop More
4	price	decimal(10,2)			No	None			Change Drop More
5	image_name	varchar(255)	utf8_general_ci		No	None			Change Drop More
6	category_id	int(10)		UNSIGNED	No	None			Change Drop More
7	featured	varchar(10)	utf8_general_ci		No	None			Change Drop More
8	active	varchar(10)	utf8_general_ci		No	None			Change Drop More

Add 1 column(s) after active

phpMyAdmin

Server: 127.0.0.1 - Database: onlinefoodorder - Table: tbl_order

Showing rows 0 - 3 (4 total, Query took 0.0005 seconds)

```
SELECT * FROM `tbl_order`
```

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	food	price	qty	total	order_date	status	customer_name	customer_contact	customer_email	customer_address
<input type="checkbox"/>	16	Burger	150.00	2	300.00	2022-09-07 08:30:55	Ordered	Riyadh Hasan	01758745889	riyadh@gmail.com	Dhaka
<input type="checkbox"/>	17	Pizza	200.00	3	600.00	2022-09-07 08:32:33	Ordered	Rakib Hasan	01797880275	rakib@gmail.com	Dhaka
<input type="checkbox"/>	18	Cold Coffee	150.00	1	150.00	2022-09-07 08:33:31	Ordered	Md Adnan	01853325814	adnan@gmail.com	Dhaka
<input type="checkbox"/>	19	Sub Sandwich	120.00	2	240.00	2022-09-07 08:34:26	Ordered	Asaduzzaman Asad	01775758889	asad@gmail.com	Dhaka

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

Bookmark this SQL query

phpMyAdmin

Server: 127.0.0.1 - Database: onlinefoodorder - Table: tbl_order

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	food	varchar(150)	utf8_general_ci		No	None			Change Drop More
3	price	decimal(10,2)			No	None			Change Drop More
4	qty	int(11)			No	None			Change Drop More
5	total	decimal(10,2)			No	None			Change Drop More
6	order_date	datetime			No	None			Change Drop More
7	status	varchar(50)	utf8_general_ci		No	None			Change Drop More
8	customer_name	varchar(150)	utf8_general_ci		No	None			Change Drop More
9	customer_contact	varchar(20)	utf8_general_ci		No	None			Change Drop More
10	customer_email	varchar(150)	utf8_general_ci		No	None			Change Drop More
11	customer_address	varchar(255)	utf8_general_ci		No	None			Change Drop More

Check all | With selected: Browse, Change, Drop, Primary, Unique, Index, Spatial, Fulltext, Add to central columns, Remove from central columns

CHAPTER 6

CONCLUSION AND FUTURE WORK

6.1. Conclusion

Our project is only a humble venture to satisfy the needs to manage the 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, college. 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. Finally, for the online ordering system, we created a secure, user-friendly food ordering administration system. Whether they are Administrators or Customers, this system can look after them all. This system will let them manage client meals, delivery boy data, and expand without creating any disruption.

6.2. Future Work

The following section describes the work that will be implemented with future releases of the software.

- Customize orders: Allow customers to customize food orders.
- Enhance User Interface by adding more user interactive features. Provide Deals and promotional.
- Offer details to home page. Provide Recipes of the Week/Day to Home Page.
- Payment Options: Add different payment options such as Bkash, Rocket, Nagad, PayPal, Gift Cards etc. Allow to save payment details for future use.
- Allow to process an order as a Guest.
- Delivery Options: Add delivery option.
- Order Process Estimate: Provide customer a visual graphical order status bar.
- Order Status: Show only Active orders to Restaurant Employees.
- Order Ready notification: Send an Order Ready notification to the customer.
- Restaurant Locator: Allow to find and choose a nearby restaurant.
- Integrate with In store touch screen devices like iPad.
- Signup and Login option with user panel.
- Improve the user interface by include more interactive features for the user. Add information about deals and promotional offers on the home page. Add a week/worth day's of recipes to the home page.
- Generate an app.

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