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An Undergraduate Internship/Project on

Professional Website Development

By

Mehedi Hasan

1711322

Summer 2022

Supervisor:

Raihan Bin Rafique

Lecturer

Department of Computer Science & Engineering

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Independent University, Bangladesh (IUB)

Sep 14, 2022

Dissertation submitted in partial fulfilment for the degree of

Bachelor of Science in Computer Science

Department of Computer Science & Engineering

Independent University, Bangladesh

Attestation

I hereby attest that I, Mehedi Hasan ID-1711322 an undergraduate affiliate of Independent University Bangladesh, have completed the report and submitted it in partial fulfilment of the requirement for the Degree of Computer Science and Engineering from Independent University, Bangladesh (IUB). I have been guided by my respected faculty Raihan Bin Rafique. All the sources of information used in this project and report has been duly acknowledged in it.



14/09/2022

Signature Date

Mehedi Hasan

Name

Acknowledgement

First and above all, I praise God, the almighty for providing me this opportunity and granting me the capability accomplishing my internship report timely.

I express my gratefulness to my internal supervisor, Raihan Bin Rafique, Lecturer, Department of Computer Science and Engineering, Independent University, Bangladesh (IUB), for her invaluable instructions, constant guidance, support and motivation during my internship period and preparation of this report.

It has been a great privilege to work for 'Online Food Order ' as an Intern. I have received so much support and encouragement from the individuals. I would like to thank my supervisor for spending his valuable time and knowledge which was essential for the completion of this report.

I would like to thank my classmates. They have always been helpful and provided valuable insights from time to time.

Finally, yet importantly, I would like to thank my family. Their endless support has been unconditional. Their hopes and faith on me had me keep going even when days were challenging.

Letter of Transmittal

Mr. Raihan Bin Rafique

Lecturer,

Department of Computer Science and Engineering,

School of Engineering and Computer Science

Independent University, Bangladesh

Subject**: Submission of Internship Report**.

Dear Sir,

This is to inform that with due honor and respect, I, Mehedi Hasan (ID: 1711322) from CSE 499, Internship Course of Summer 2022 Semester, Section 01, would like to submit my Internship report. I have completed my internship program under the supervision of Engr. Md. Kamrul Hasan.

This report is based on my internship program and the project I have worked on at Online Food Order. I tried to make this report as much informative as possible with the experience I have gained during my internship period.

I have tried my best to deliver a good report. However, it might lack perfection. I shall be highly obliged if you are kind enough to receive this report and provide your valuable judgment. I hope the following report can achieve your approval and is adequate.

Sincerely,

Mehedi Hasan

ID-1711322

Department of Computer Science and Engineering

Independent University, Bangladesh

Evaluation Committee

Evaluation Committee

.....



.....

Name: Raihan Bin Rafique
Supervisor



.....

Name: Mohammad Noor Nabi

Internal Examiner-1 / Panel Member-1



.....

Name: Md. Asif Bin Khaled

Internal Examiner-2 / Panel Member-1



.....

Head of the Department / Convener

Abstract

The experience and knowledge I gained throughout my internship program at Online Restaurant Food Ordering, is written in this report.

Online Restaurant Food Ordering is a System provide customer ordering food services via online. As an intern, I have done with the Full Stack Developer on this project. This Project gave me the opportunity to grow as a person and introduced me to the better web development process, which I will be able to apply in the future.

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Chapter 1

Introduction

1.1 Overview/Background of the Work

Technological developments have always had a massive effect on all parts of human civilization and they also have had a range of effects on our everyday life. Over the previous two decades technical breakthrough has changed our communication, entertainment, and business techniques and practices. Since the Internet's inception in the late 1960s as a tiny network of computers it has grown to become the primary and most essential link between corporations, governments, and individuals. Geographical limitations, time limits, and financial constraints are all eradicated by the Internet. It is also easily accessible to everyone. It is a low-cost method of spreading cutting-edge technology, business concepts, and ideas to a wide number of people and it creates an excellent atmosphere for entrepreneurs.

The online restaurant food ordering system I propose here greatly simplifies the ordering processes for both customers and restaurants. The system presents all available interactive and up-to-date menus optional in a user friendly way. Customers can select one or more items to place an order. customer will receive the order confirmation details. When an order is placed, it is entered into the database and retrieved in near real time. This allows restaurant staff to process orders quickly when they are received, process all orders efficiently and effectively, and minimize delays and confusion.

Typically, today's businesses confront far too many obstacles in achieving cost, speed, and dependability. An effective online restaurant food ordering system is extremely beneficial in ensuring that the organization's performance and data records are always in excellent working order and protected from tampering. Online restaurant 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.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data /information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better service for the clients

1.2 Objectives

The main objective of the project on Online Restaurant Food Ordering System is to manage the details of Food Item, Category, Customer, Order, and Confirm Order. It manages all the information about Food Item, Payment, Confirm Order, and Food Item.

- Provide the various food item in this web side.
- To manage Information category
- It deals with monitoring the information and transactions of order.
- To make use of online platform for less customers inconvenience and high productivity among staff.

1.3 Scopes

Features available to the user after the development of this web:

1. Home Page- The first page the user will see after visiting the website.

2. Menu- User can see any product from menu panel.

    - Customize Food- Customers can customize the food from menu

3. Reservation- Customers can reserve their catering service for different kind of events.

4. Admin Registration- Admin can register from the Admin Panel.

5. Admin Login- Registered admin can login from the Admin Panel.

1.4 Problem Statement

Online Restaurant food ordering management system makes it simple to sell food to a large number of people. However there is a lot of competition among Online Restaurant food ordering management websites. Users expect to find what they're looking for fast and simply and good food when they visit an Online Restaurant site. In this system we receive orders of food from customers, customers can add/remove or customize their order, confirm them, customers can also reserve their catering service for various events and ensure safe money transactions. The system also provides the customer the facility of rating their experience and suggesting improvements. This system also very beneficial for the Restaurant to manage everything. By administration panel, Restaurant can manage this system easily.

Chapter 2

Literature Review

2.1 Relationship with Undergraduate Studies

First and foremost, the university places high value on teaching and learning, as well as the learning process, as part of its commitment to the development of mature, responsible, and well-educated citizens. My undergraduate programs have provided me with knowledge and skills that have assisted me in my projects. Some of the courses are:

CSC 305- Object-Oriented Programming:

In the developing industry most of the data is represented as an object. It also taught how to write modular

programs which made codes less repetitive and more reusable. The concept of objects lies at the heart of object-

oriented programming. Data structures, or objects, are defined in object-oriented programming, each with its own set

of traits or attributes. OOP can also be utilized in manufacturing and design applications because it reduces the amount

of effort required.

CSC455 (Web Applications & Internet) –

Since I am currently working on Front-End Development in my project, so learning HTML, CSS, JavaScript and PHP from this course has helped me to implement of my project work.

CSC405 (System Analysis & Design) –

Before I started working on my project, I discussed with the clients and learned what they want in their website. So, learning functional and non-functional requirements, UML diagram, data flow diagram and activity diagram from this course has helped me to design my project work.

CSC401 (Database Management) –

Soon I will start working on Back-End Development so concepts of SQL, ER Diagram and more that I have learned from this course will help me to do the Back-End Development work of my project.

2.2 Related Works

In my project, where I am focusing on making a website for Online Food Order. Online Food Order is basically customer can order food by online.

The following lists will give an idea of what my project is related with:

Pizza Hut –

Pizza Hut is the most reputed Online pizza delivery food restaurant. online pizza store. In Bangladesh there are lot of online restaurant food ordering management system. One of them is PizzaHut.
Pizza Hut is one of the most well-known names in the field, and it is currently one of the most prestigious
and leading online pizza sites in Bangladesh. Their website accurately portrays the company's true identity.

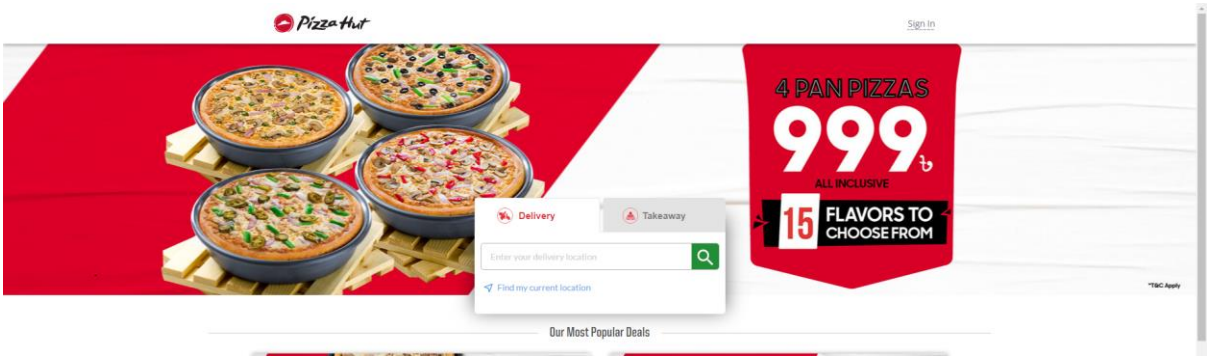


Figure 2.2: Pizzahutbd.com

Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure

WBS is a hierarchical structure which demonstrates a project's breakdown into smaller segments. For my project, I have produced two WBS for the project (Online Restaurant

food ordering management system) so that our work is coordinated. WBS offers a visual of all the scopes, risks, points of communication, responsibilities, costs and guarantees that it does not skip essential deliverables. For brainstorming and collaboration, it is the ideal tool for the team. In my WBS, I have used the top-down approach.

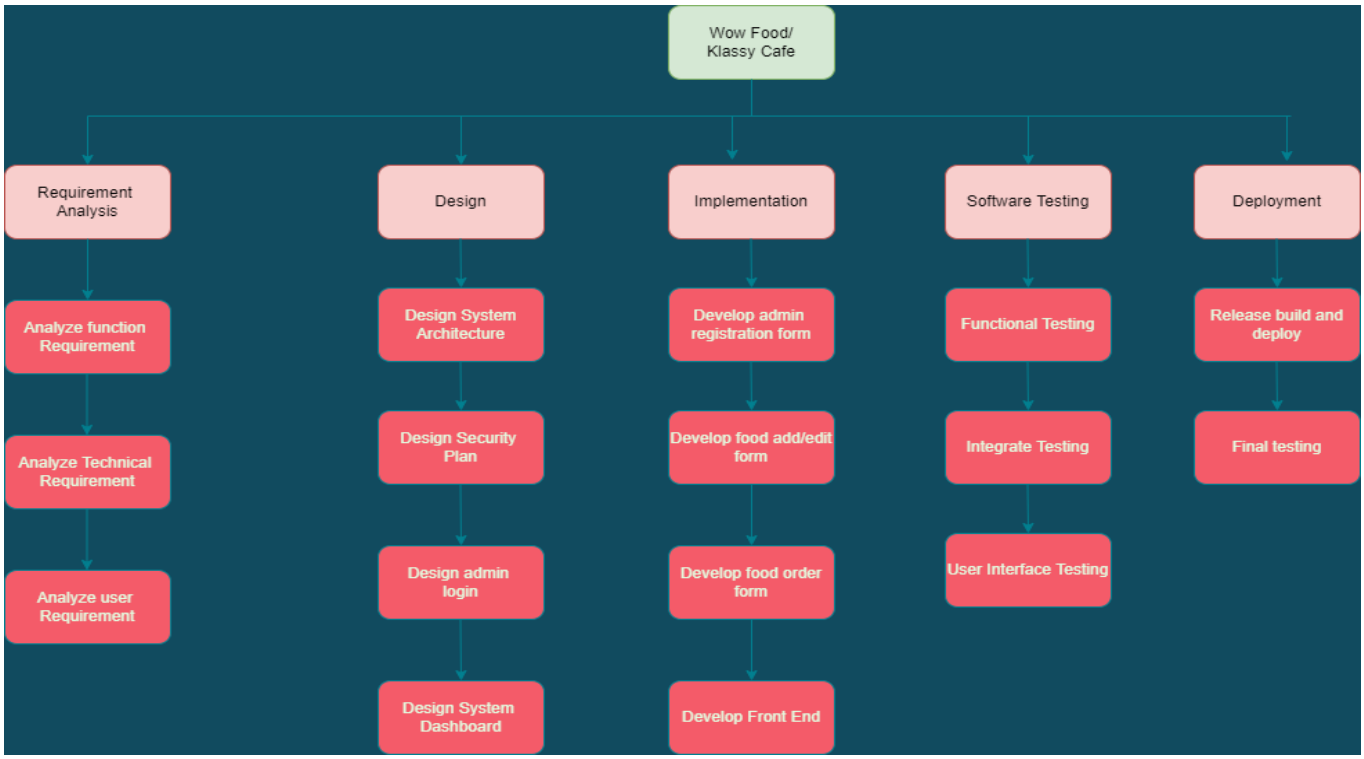


Figure 3.1:Website of Online resturent Food Order Management system.

3.2 Process/Activity Wise Time Distribution

For this project I have mentioned in my Work Breakdown Structure, time was allocated so the project completes on time. This table below shows the time allocation of the work for this project.

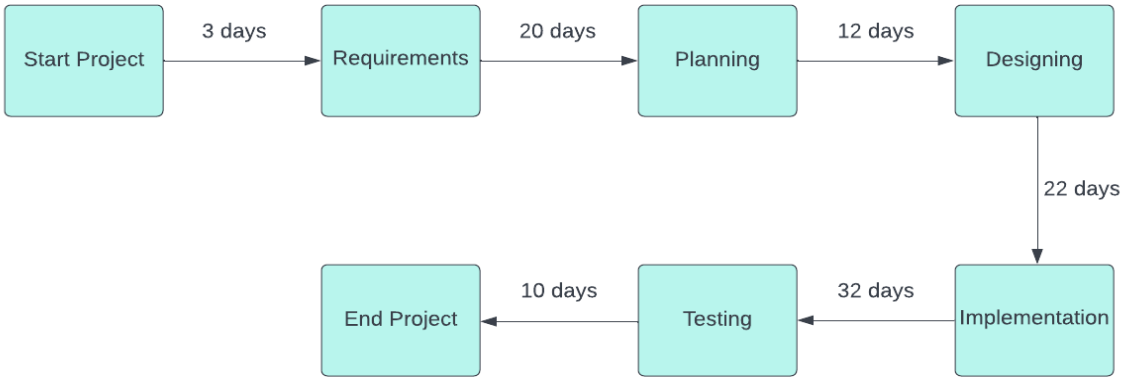


Figure 3.2: Activity Wise Time Distributting

Here, I need 3 working days for requirement analysis, 20 days for planning , 12 days for Designing, 22 days for implementation, 32 days testing and 8 days for Deployment.

3.3 Gantt Chart

I have used the Gantt Chart to plan and schedule all the activities that were needed to be done to complete the project successfully.

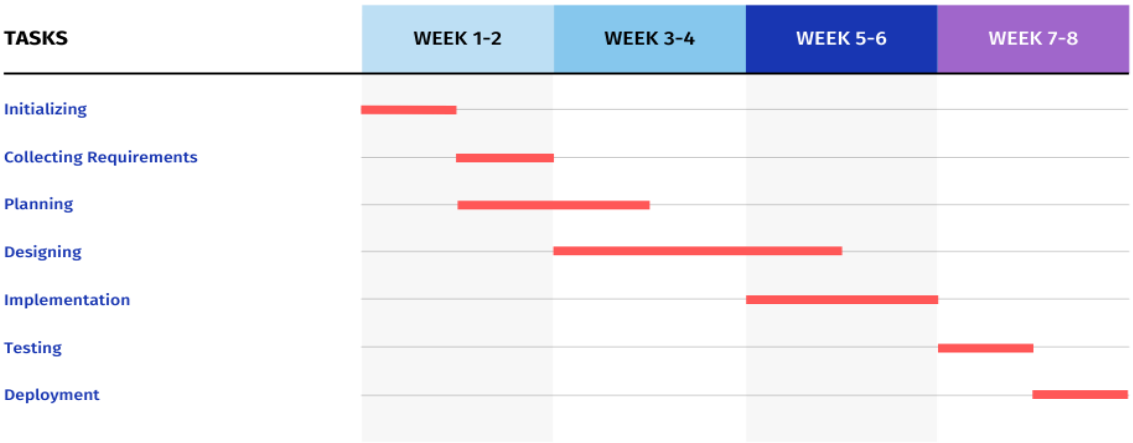


Figure 3.3 Gantt chart for online food Order

3.4 Process/Activity Wise Resource Allocation

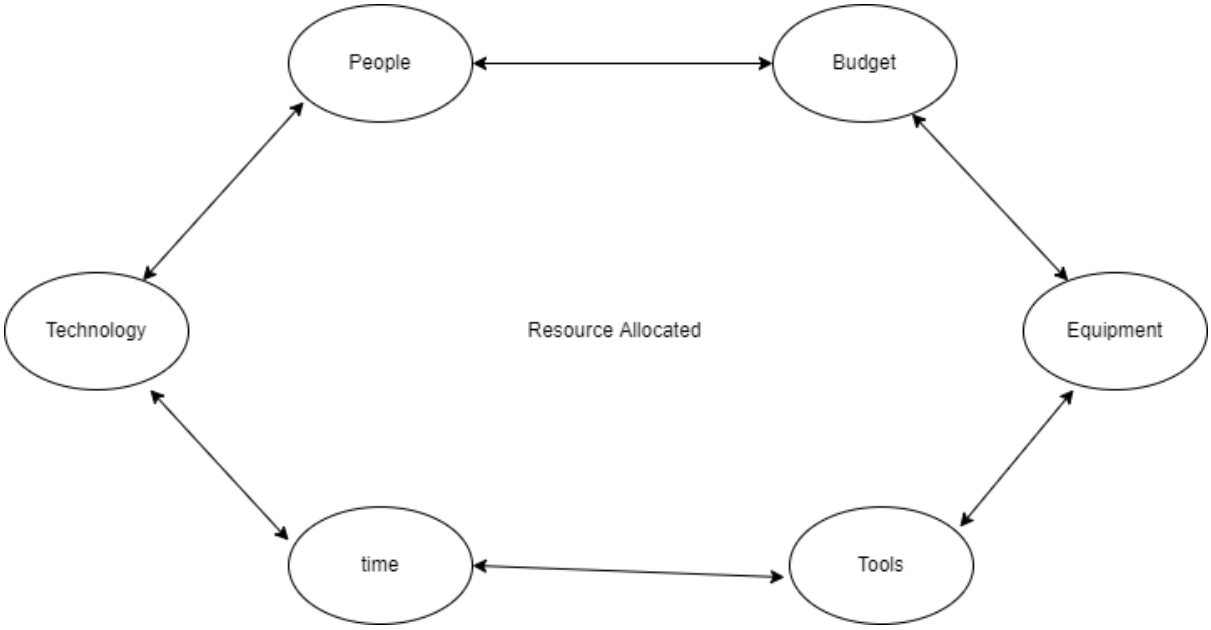


Figure 3.4:Resource allocation

3.5 Estimated Costing

Requirements	Amount
Domain	3000 BDT
Employee Salary	40000 BDT
Electricity Bill	6500 BDT
Computer Components	60000 BDT
Testing	12000 BDT
Total	121500 BDT

Table 3.1 :Eastimated Costing Table

Chapter 4

Methodology

Agile methodology is being used for the project. The Agile methodology is a way to manage

a project by breaking it up into several phases. It involves constant collaboration with clients and continuous improvement at every stage. Once the work begins, the team cycles through a process of planning, executing, and evaluating. Continuous collaboration is vital, both with team members and clients.

So, if there are unexpected changes either from the client's side or internal, this model becomes the perfect choice for team leader and its members. This eventually minimizes the risks when a new functionality is added to the system.

For example, while designing the "About Us" page, at first the layout and contents of the page were selected by analysing the other similar popular websites. After selection of the components for "About Us" page, the contents of the page and execution of the design was performed by using HTML, CSS and JavaScript. After completion, testing of the website was performed by using live server. The website was later reviewed by the company's supervisor and clients. After attaining the final approval from them, we went to the next stage of the project work.

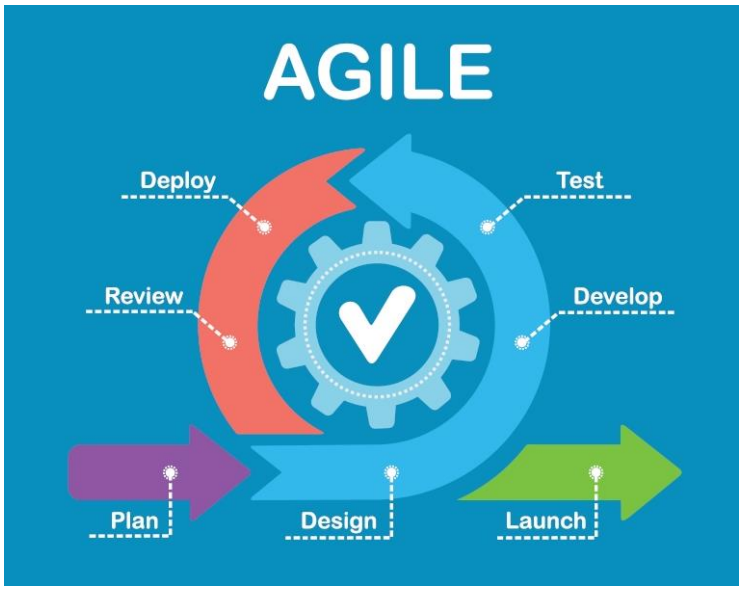


Figure 4.1: *Agile software development methodology*

Lesson Learned

I have covered several important topics and the elaborated them in a very comprehensive way. But working through the topics, it gave the advantages to learn new things and act accordingly. Here I am going to discuss the lesson summary of the previous segments:

- **Finding the problems**: In the problem statement part, I experienced different kinds and levels of problems. Whether it is a bug fix or working with a very new

technologies or meeting the deadlines, there is always some things to learn. And it is just not about the project, coping up to the office environment and being monitored by a supervisor is also part of the lesson. Some problems were seeming like very hard at the beginning, but I was used to the system very soon and the new challenges started to seem easier. Finding bugs in a code or running a new technological environment or generating ideas, soon it all became very interesting to me.

- **Background Research**: If we put the term Literature review in a very simple form, it would be researching a topic from its similar encounters. For any project, reviewing previous documents and papers gives the advantages for the developers to solve the common mistakes that are made. Also, I can have new ideas for my own project. But the literature review is not very easy as it seems. So, it was a good lesson for me to experience the right way to do so. It helped me to open new ideas and contexts.
- **Choosing Compatible Method**: Since the dawn of a development, it is a must to choose a method to follow till the end of it. For example, I have chosen the agile method not just because it is a good method to follow. It allows users and developer to engage between themselves. It increases the efficiency and ensures better quality Now considering other methods, this agile method offers so many different and productive mechanism altogether that other methods doesn't have. Choosing the perfect way to maintain a website is the best lesson an apprentice can learn. It is the lesson that will make my development organized and fruitful.

Chapter 5

Body of the Project

5.1 Work Description

The purpose of wow food and Klassy cafe is to facilitate online food ordering easily for both restaurant and customers. My work was to build an online restaurant food ordering management website for Restaurant from the scratch. I have used HTML, CSS, JavaScript, boostrap, to build the website. I have worked on Django framework used MySQL as the database of the system. For the back-end work I have used PHP and Laravel admin interface, Django provides a default admin interface.

5.2 Requirement Analysis

5.2.1 Rich Picture

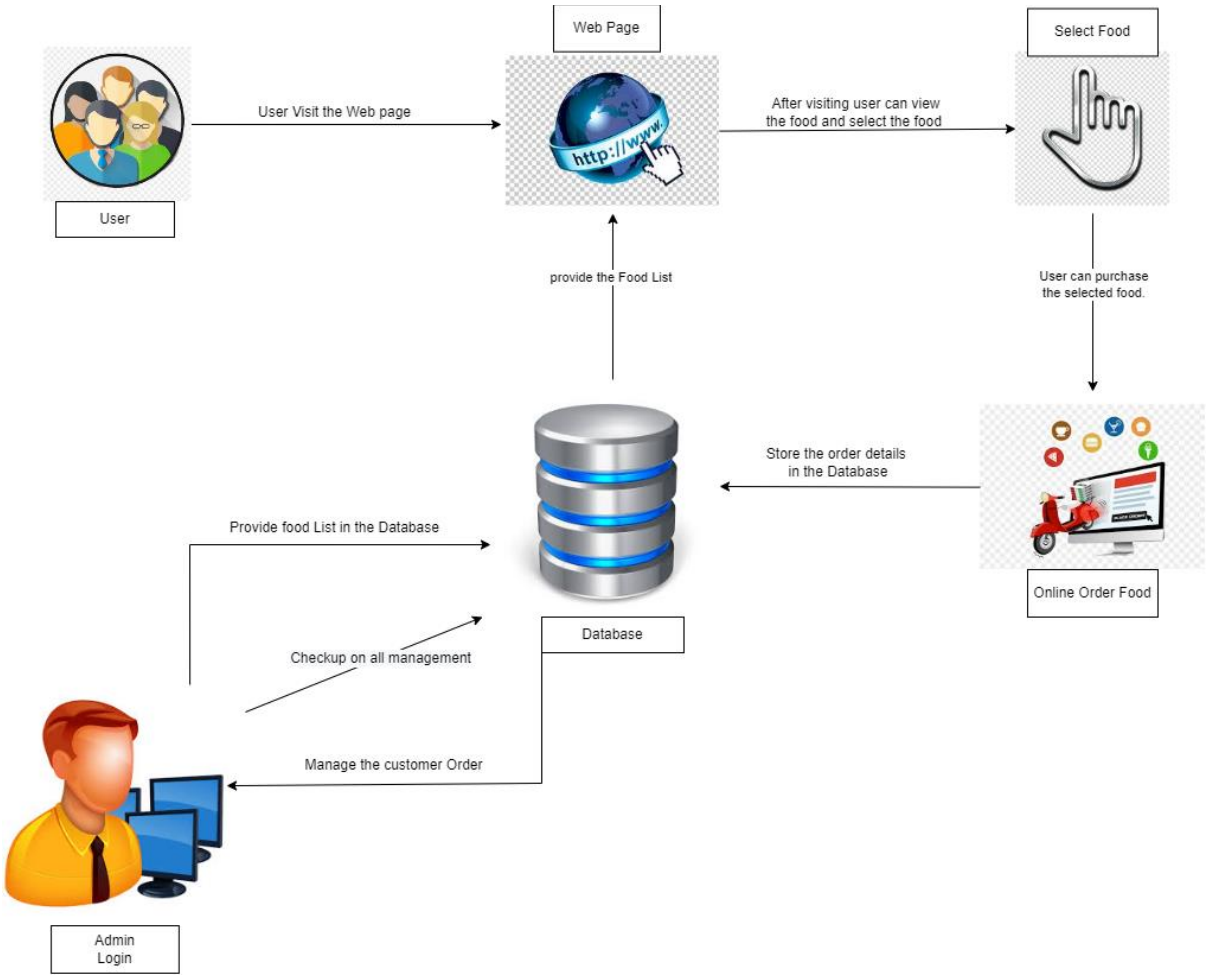


Figure 5.1:Rich Picture for Online Food Order

5.2.2 Functional & Non-Functional Requirements

Functional Requirements –

- Browse website
- Responsive for various screen size
- Navigation bar
- Select Food
- Online Food Order
- Login
- Logout
- Send message

Non-Functional Requirements –

- **Operational -** The system should run all PCs with windows 7 or higher version of OS.
- **Security -** The system will be secured with a password. So, only authorized persons will be able to gain access into the system.
- **Usability -** The website should be pleasant to use. It is user-friendly, even non-technical user can easily use the platform.

5.3 System Analysis

5.3.1 Six Element Analysis

	System Roles					
Process	Human	Non-Computing Hardware	Computer Hardware	Software	Database	Comm & Network
Create Food Item	Admin	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN
View Food Item	User	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN
Upload Food Item	Admin	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN
Delete Food Item	Admin	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN
Place Order	User	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN
Manage Order	Admin	N/A	Computer, Smart Phone	Web browsers	MySQL	WAN/LAN

Table 5.1:Six Element Analysis

5.3.2 Feasibility Analysis

Because a feasibility analysis assesses a project's chances of success, perceived objectivity is a critical factor in the study's authenticity with potential investors and lenders. It

determines whether the project is morally, theoretically, and financially viable as well as whether it is worthwhile to invest in.

For this project, four feasibility studies are being considered.:

- **Technical feasibility –**
  The technical resources accessible in our organization are the subject of this assessment. It helps in examining whether technical resources are sufficient and whether the technical experts is capable of converting ideas into functional solutions for the website. The proposed system's hardware, software, and other technical needs are also evaluated for technical viability,
- **Economic feasibility –**
  The cost and advantages of this website have been evaluated in this section. On the website, there are no hidden expenses for users. When a customer views the website and decides to make a purchase, they are hoping to make money.
- **Operational feasibility –**
  Because of the ongoing pandemic and the current economic circumstances, going out for anything is now highly risky. With the help of our website, visitors and potential purchasers can now readily locate all of the information they need to make an informed purchase. Furthermore, all of the customer's criteria are met by the product details.
- **Legal Feasibility–**
  All legal restraints, including data protection acts, social networking regulations, e-cab rules and zoning laws were evaluated before moving forward with this project to ensure that it would not face any legal complications in the future.

5.3.3 Problem Solution Analysis

There were a number of problems that were encountered while completing the projects and they were solved
accordingly. Some of the problems were **–**

1. Responsive Website: Making the website responsive for all devices was a great challenge. This problem was solved by using Bootstrap5 and custom CSS.
2. Product Images Issue: Another issue that was faced while uploading pictures in the feeds in bulk is that the image of one pic shows up for another pic and so on. So after manually error checking of all product images and their URLs the problem was solved.

5.3.4 Effect and Constraints Analysis

Online ordering system that I am proposing here, greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive

and up-to-date menu with all available options in an easy to use manner. Customer can choose one items to place an order. Customer can view all the order details in order option. At the end, customer gets order confirmation details. This allows Restaurant Employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion.

System analysis is conducted for the purpose of studying a system or its parts in order to identify its objectives. It is a problem solving technique that improves the system and ensures that all the components of the system work efficiently to accomplish their purpose.

5.4 System Design

5.4.1 UML Diagrams

Use Case Diagram –



Figure 5.2:Use Case Diagram User and Admin

State Chart Diagrams –

1. User Food Order

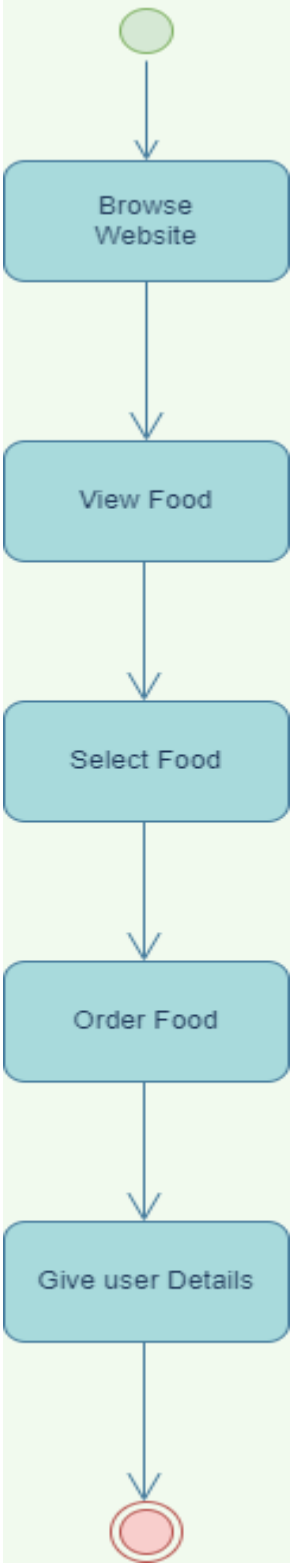


Figure 5.3: Activity Diagram for User

2. Admin

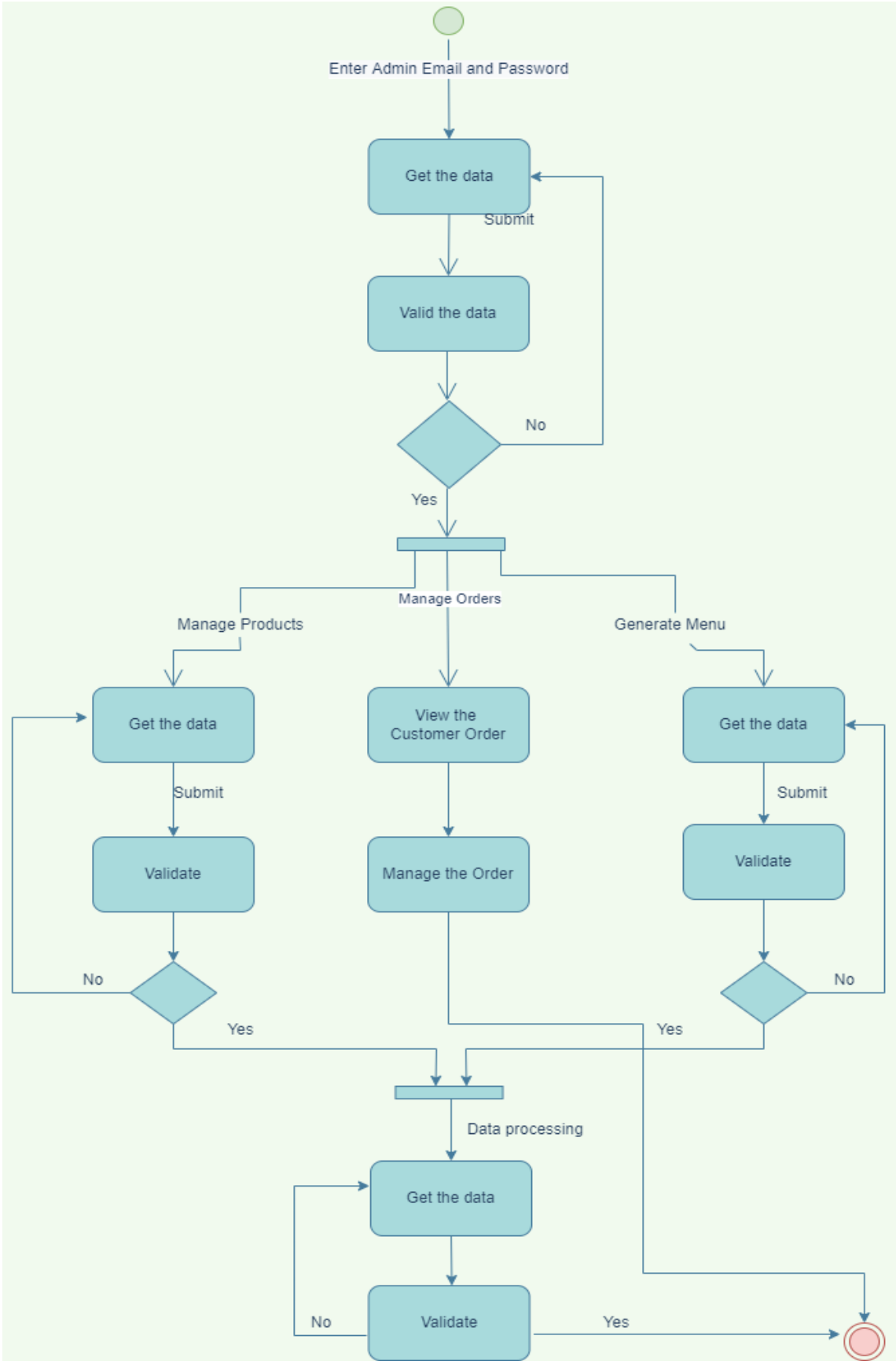


Figure 5.4: Activity Diagram for Admin

5.5 Implementation

Implementing a website means passing from the design stage to the completion and the launch of the site.

This involves gathering all the contents necessary to populate the pages of the site, and entering them into the pages, transferring the pages to a server, testing them, and launching the site by informing the public about its existence.

The following steps must be adhered to before the program can run:

1. Write all the required codes on VS Code and save with a filename and a filename extension of .html or .php at this juncture the code editor automatically compiles into a HTML/web document.
2. Queue in data into the database with XAMPP SERVER'S MYSQL and link to the website.
3. Open the web browser; go to localhost as provided by the SERVER technology.

5.6 Testing

5.6.1 Input

- Food Order–
  Project 1

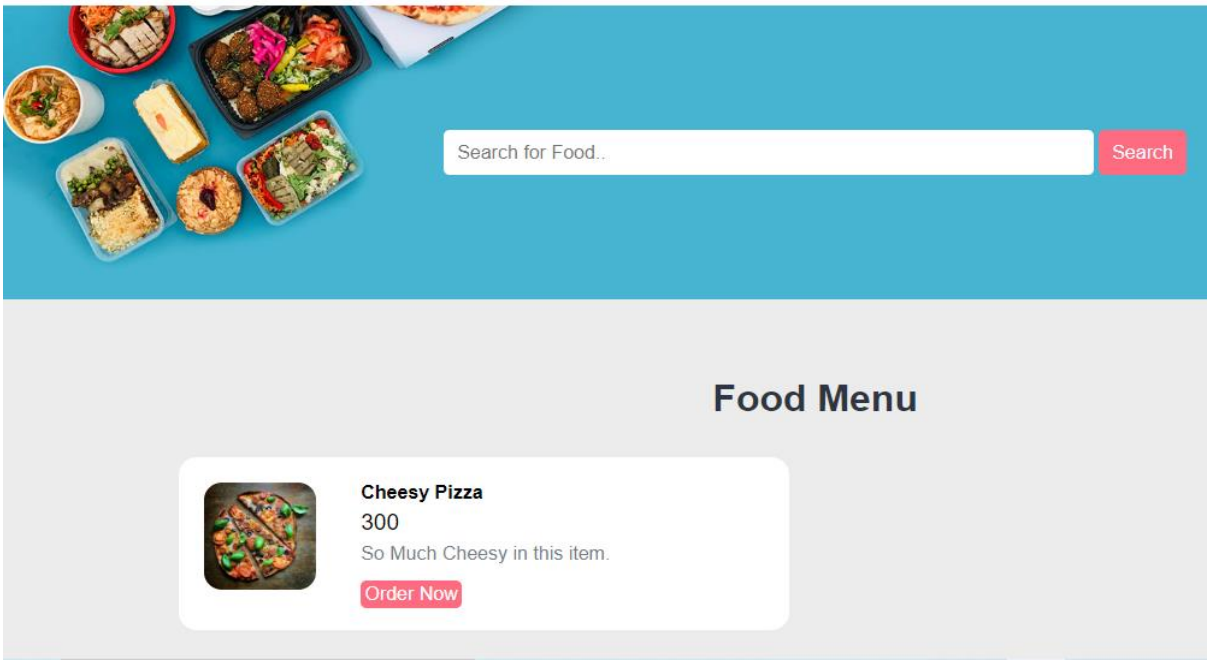


Figure 5.5:Food Order for Project 1



Figure 5.6:Order Details for Project 1

Project 2-

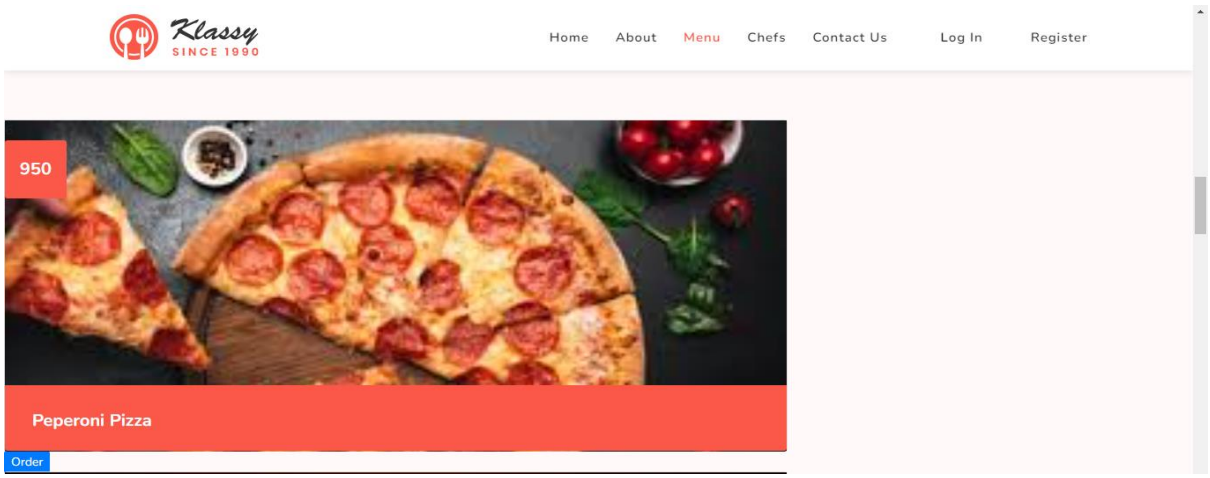


Figure 5.7:Food Order for Project 2

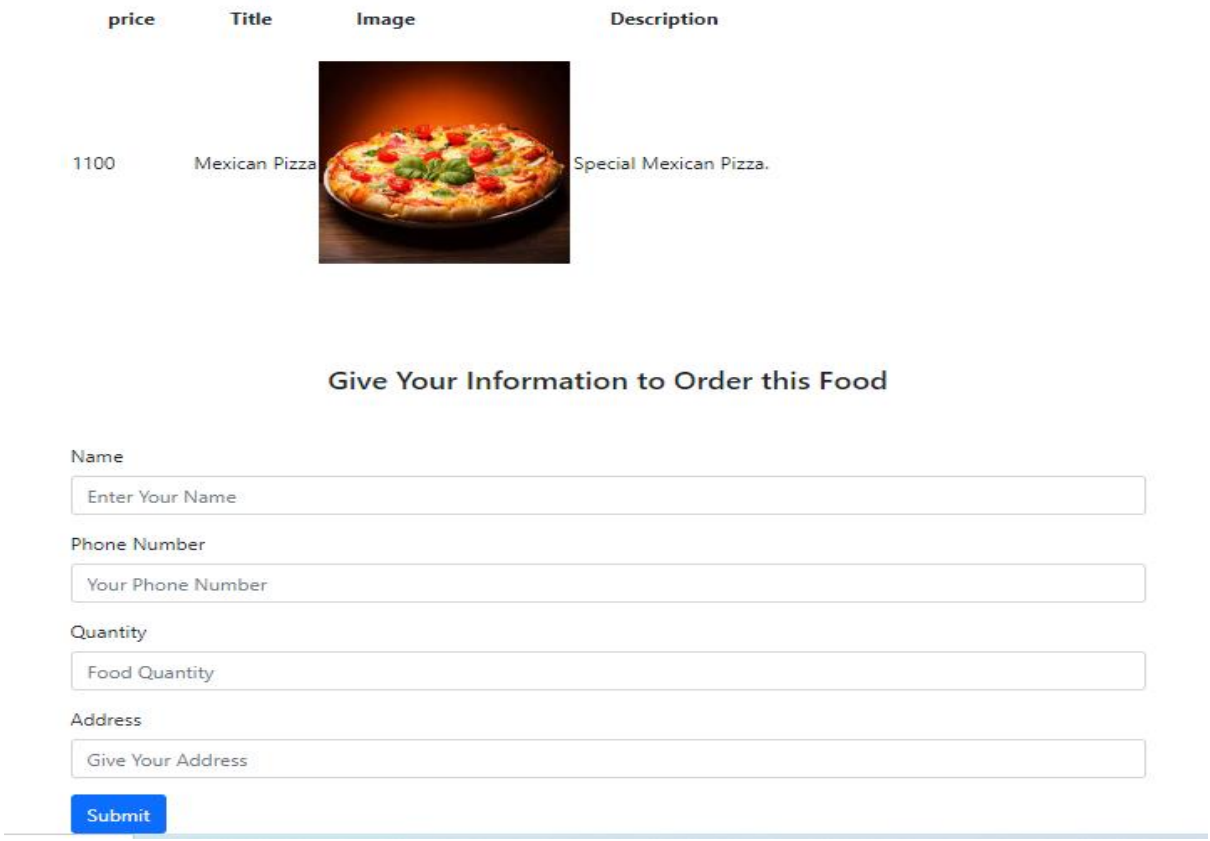


Figure 5.8:Order Details for Project 2

- Admin
  Project 1

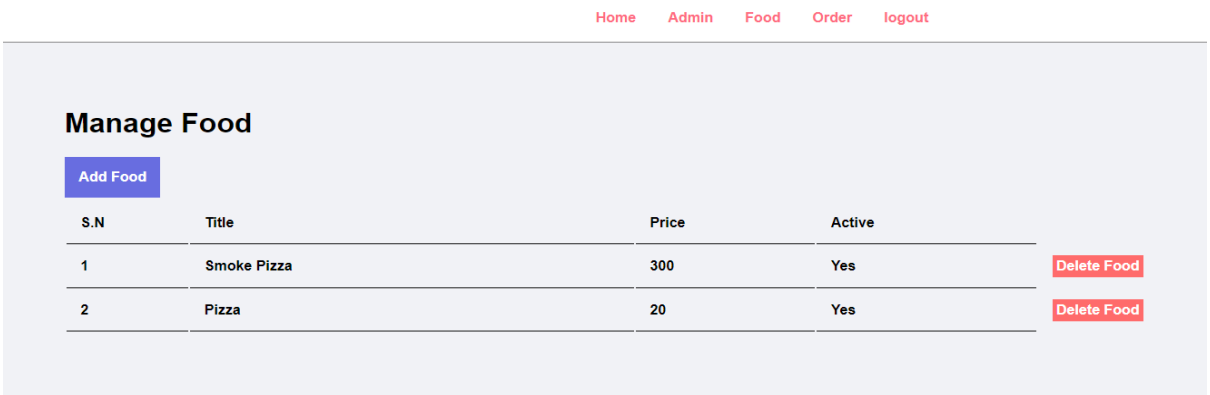


Figure 5.9:Managing Food for Project 1

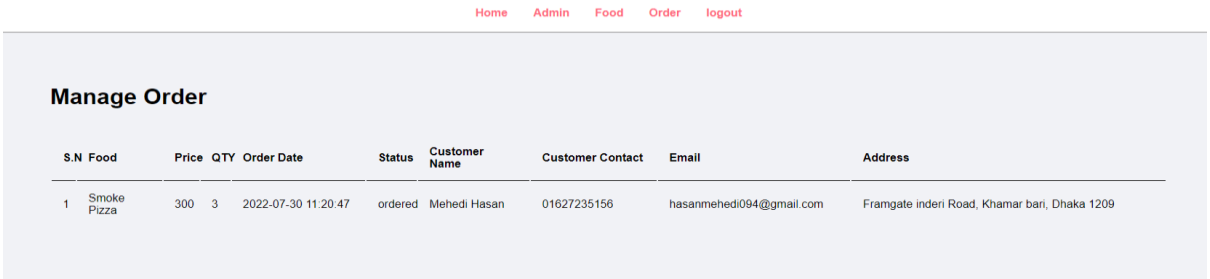


Figure 5.10:Managing Order for Project 1

Project 2-



Figure 5.11:Managing Food for Project 2

Klassy Cafe Add Food Customer Order Add Employee Employee List Mehedi Hasan

List of Order

ID	Food Name	Food Price	Customer Name	Phone Number	Quantity	Address	Action
3	Peperoni Pizza	950	Arman Hossain	0172541478	1	puran dhaka.	Delivered
4	Cheesy Pizza	1000	Taslima Haque	01627235156	3	House:TA-160/3, Middle Badda, Badda High School Road, Gulshan 1, Dhaka 1212	Delivered
8	Cheesy Pizza	1000	FATEMA AKTER	01723600977	5	khilgao,dhaka	Delivered

Figure 5.12:List of Order for Project 2

price	Title	Image	Description	Action
950	Peperoni Pizza		Desirous pizza	Delete
1100	Mexican Pizza		Special Mexican Pizza.	Delete

Figure 5.13:Deleting Food for Project 2

5.6.2 Output

- Output of Food Menu –
  Project 1

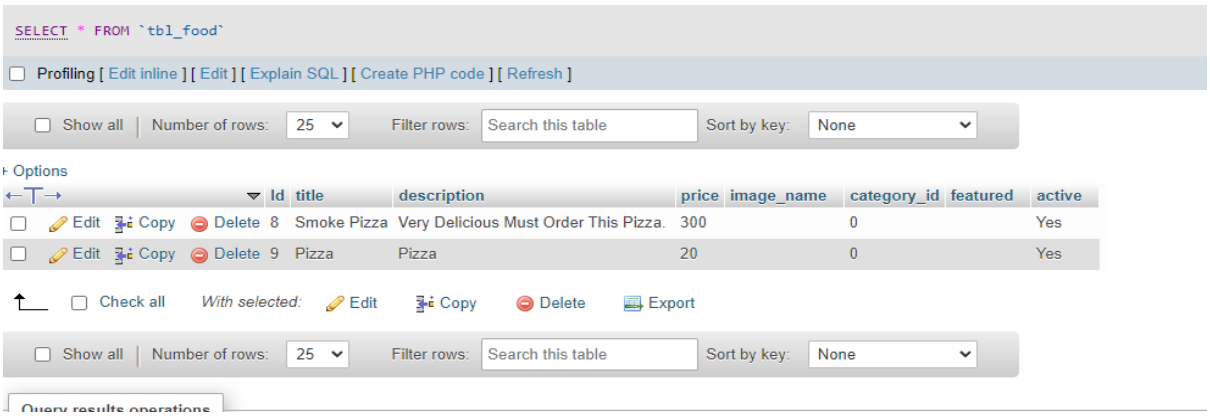


Figure 5.14:Output Menu Food for Project 1

Project 2-

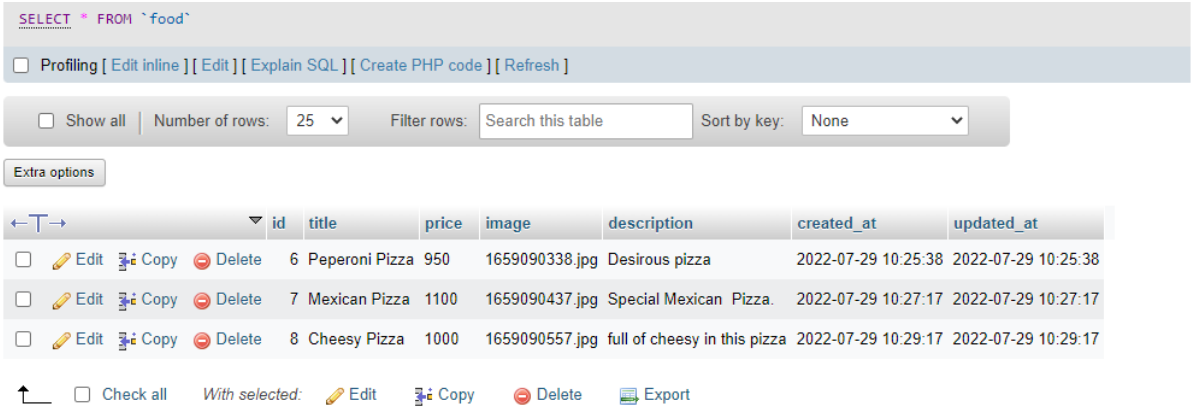


Figure 5.15:Output Add Food for Project 2

- Output of Food Order –

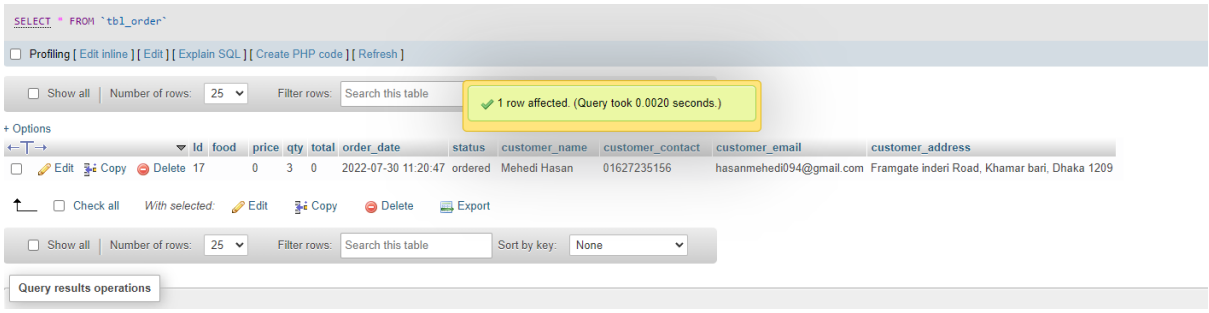


Figure 5.16:Output Customer Food Order for Project 2

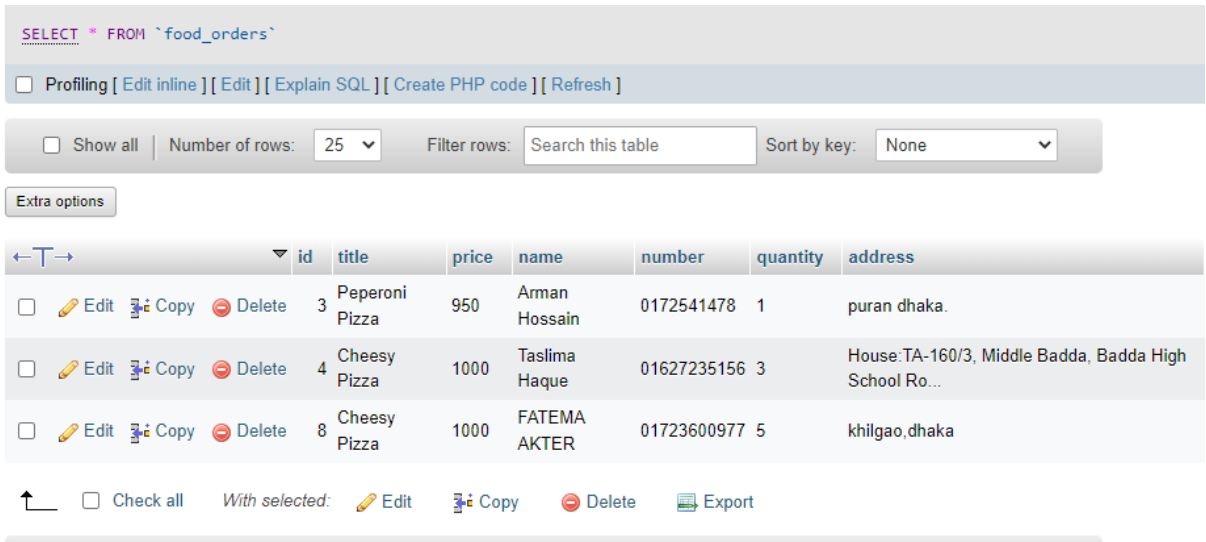


Figure 5.17:Output Customer Details for Project 2

Chapter 6

Results & Analysis

The results section should aim to narrate the findings without trying to interpret or evaluate, and also provide a direction to the discussion section of the research paper. The results are reported and reveals the analysis. The analysis section is where the writer describes what was done with the data found. In order to write the analysis section it is important to know what the analysis consisted of, but does not mean data is needed. The analysis should already be performed to write the results section.

Wow Food and Klassy Cafe (Online Restaurant Food ordering management) website was solely made to make the whole purpose of buying their desire foods much more convenient for customers. User can easily order the food. The main goal was Customers can get their desire food item easily without the hassle of personally going and buying from market.

Chapter 7

Project as Engineering Problem Analysis

7.1 Sustainability of the Project/Work

The ability of a product to be maintained and upgraded is referred to as its sustainability. In today's environment, any new application or website must be maintained and updated on a regular basis for its users. By implementing these small but major adjustments, the website has become more sustainable. Image optimization to reduce file size: to reduce load time, the maximum number of photos per section has been kept constant. The image's size and resolution have also been taken into account so that load time and energy consumption are not hampered.

Easy navigation system- We have kept the navigation system as simple as possible so that users get the maximum ease while surfing through the website. All unnecessary data deleted- All the data that is not used by us anymore including all the unwanted themes and plugins, old post revisions, unused media, categories and

tags, spam comments, broken links, etc. were deleted. We plan on carrying out this exercise once a year to free up the database. Easy URL for admin and user- we have written the routes in such a way that user and admin both will find it really easy to browse any of the page in the website

Engineering problems usually have more than one solution. It is the aim of the engineer to obtain the best solution possible with the resources available. Engineers are professionally responsible for the safety and performance of their designs. The objective is to solve a given problem with the simplest, safest, most efficient design possible, at the lowest cost. Engineering is obviously one of the applied sciences. The specific activities of the engineer cover a wide spectrum They range from the role of a pure scientist to that of a sales or applications engineer who has more to do with people. oriented subjects such as psychology and economics.

7.2 Social & Environmental Effects & Analysis

Technology is increasing at a very fast pace. To keep with technology, people are in need of computers. Be it schools, work, home or any other aspect in life.

Social Effect - The major purpose of the website was to make the Wow Food and Klassy Cafe Website (Online Restaurant Food Ordering Management) easier for the customers so that they don't have to go to physical shop to buy food. The website simplified the difficult work of managing all the works in a proper way complex.

Environmental effect-The website has been a lifesaver during the global epidemic, as it is no longer safe as before to go outside for eating. People need to be more cautious about life, and the website allows them to maintain the social distance and save their valuable time

7.3 Addressing Ethics & Ethical Issues

There are a few implicit standards and morals standards that must be watched when working on setting up and discharging website within the world of smartphones with so much information collecting, hacking, and cybercrime and so on. The developers made certain that there were no infringement of conduct which all of the focuses were genuinely considered. The taking after are some of them: As it were essential admin information is collected: The site as it were accumulates fundamental user information, such as a user's name and e-mail address. No other data is assembled.

Ethics is rooted in the ancient Greek philosophical inquiry of moral life. It refers to a system of principles which can critically change previous considerations about choices and actions. It is said that ethics is the branch of philosophy which deals with the dynamics of decision making concerning what is right and wrong. Scientific research work, as all human

activities, is governed by individual, community and social values. Research ethics involve requirements on daily work, the protection of dignity of subjects and the publication of the information in the research.

Chapter 8

Lesson Learned

8.1 Problems faced during this period

It was extremely difficult for me to cope with all of the barriers and challenges that I encountered throughout my internship. First and foremost, working as an intern which is kind of as similar as working as a full time employee was a major change in my life and that is not an easy task. After a few weeks of working under a tarp over there, I had to face several obstacles since I was not a professional at my field. There were rules and regulations that were to be strictly maintained and I had to make sure that I followed them properly. I had to get myself familiar with their work culture in a very short period of time. The concept of a full-stack web application was new to me, and on top of that, I had to learn a completely new library of JavaScript and for back end Laravel. Since this was the first time, I have ever worked on a web application in an office environment I had to learn and adapt to new technologies of the company. Although acquiring the skill set was possible it became hard to apply them in real life situations.

Apart from all these, I have faced lots of challenges while working on this Project.

8.2 Solution of those problem

The last 4 years as an undergraduate student has taught me valuable lessons. Which helped me to find most of the solutions of this problem. Solution for those problems are given below:

With the grace of God, all this journey seems to be going smoothly. I have successfully completed an internship at a well-known and famous company. As the days went by, I gradually got used to the workflow and everything. Burden of responsibility. I went to the office every day to work with the team to get the job done and attend meetings with outside managers and developer teammates. In terms of learning, I learned a lot. I'm learning a variety of programming languages and how to incorporate them into the framework to help me develop as a backend developer. From the university lessons, I learned the crucial ability of time management. Because of this, I was able to adjust appropriate time for myself so that I can meet the strict deadlines and also study for my

other courses as well as work on both project. I myself worked harder to improve the project. This is reflected in my work and I find it very productive and Valuable. We then successfully completed the project and report and submitted it to our internal manager within the time frame.

Chapter 9

Future Work & Conclusion

9.1 Future Works

As the project is still evolving, the company plans on adding a lot more features to the website to make it even more helpful for people and to make it look more appealing. In my opinion, some more backend developers can be hired for the project to add some more intrinsic features to the website. And 'Online restaurant food ordering management system' is still under development. Some Features still need to be polished before it can be developed. It has many sides for improvement.

Some of them are:

• A Mobile App Version of this project.

• Add live chat system.

• Improve the existing system,

9.2 Conclusion

This was a very successful internship for me. I've acquired new knowledge, know-how and met so many new people. I got to work and have professional practice in my field. An internship is a great opportunity to achieve this experience. The internship was good to explain my strengths and weaknesses. This helped me determine what skills and knowledge I must improve in the next time. I learned JavaScript, Bootstrap, Laravel, etc, during my internship.

Now I understand how a website could be made. As has, I have worked in Ant Tech with a developer team. Now I know how to work with the team in a software company and how to communicate in conjunction with other staff members in the project.

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An Undergraduate Internship/Project on yourTopic

By

Online Food Order System

Mehedi Hasan

Student ID: **1711322**

Summer, 2022

Consent Form

The student modified the internship final report as per the recommendations made by his/her academic supervisor and/or panel members during final viva, and the department can use this version for archiving.



(Signature of the Supervisor)

Raihan Bin Rafique
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