An Undergraduate Internship on

Online Food Ordering System

By

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In partial fulfillment for the degree of

Bachelor of Science in Computer Science & Engineering from the

Department of Computer Science & Engineering

Independent University, Bangladesh

Attestation

I certify that this report is my own work, based on my personal work by me during my internship. And that I have acknowledged all material and sources used in this report.

I understand the nature of plagiarism, and I am aware of the University's policy on this. I also certify that usually a unique work by me amid my internship. In any case, taking after globally acknowledged scholastic rule of utilizing others written work and/or software (within the frame of code) in my University venture is legitimately cited in case utilized in any portion of this work.

Signature: .....

Name: Sheikh Tanvir Ahmed Shajib

Acknowledgement

Firstly, I crave to precise our most profound sense of appreciation to Almighty Allah for giving me the continuance and the capacity to work difficult. Then I would like to thank the Independent University, Bangladesh (IUB) for offering an Internship program for me. The internship opportunity I had with MegaTech Solution Ltd was an incredible chance for learning and proficient improvement.

I would like to thank the Team Leader, Tawhid Ahmed sir for granting me this opportunity to do my internship there. I have never felt more welcomed into this environment as he welcomed me to the company. I would also like to precise my appreciation for Alauddin Bhuiyan, Head of Development. He was very active with his ventures and obligations, took the time to hear me out, and direct me towards the proper way.

From the core of my heart, I want to thank my internal advisor Mohammad Noor Nabi, Senior lecturer of School of Engineering and Computer Science, for his knowledge, tolerance, invaluable instructions, and continuous guidance and for giving me the chance to gain from him. I will endeavor to utilize these picked up capacities and data inside the leading conceivable way, and I will proceed to create strides to empower on, to achieve needed career goals.

Letter of Transmittal

January 27, 2021

Mohammad Noor Nabi

Senior Lecturer

Department of Computer Science & Engineering

Independent University, Bangladesh (IUB)

Bashundhara R/A, Dhaka 1229, Bangladesh

Subject: Report submission of the internship

Dear Sir,

This is a great pleasure for me to submit the final internship report titled “Online Food Ordering System” at MegaTech Solution Ltd which is a requirement for my CSE499: Internship program. I have found the study to be quite interesting, beneficial and knowledgeable.

I would like to require this opportunity to thank you for the guidance that you've given me amid this report. With pleasure, I am submitting my internship report in MegaTech Solution Ltd for three months.

During my internship period, I have not only gained real-life work experience but understood the process of the department and its various aspects. In this report, I attempted my best to present all my experiences, learning and outcome out of this course of work.

I pray and hope this report will be fulfilling your expectations. I have tried my best to avoid my lack and hope that my report will satisfy you.

Thank you in advance.

Sincerely Yours,

Sheikh Tanvir Ahmed Shajib

ID: 1421072

Evaluation Committee

Signature: .....

Name: .....

Supervisor: .....

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Name: .....

Internal Supervisor: .....

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External Supervisor: .....

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Name: .....

Convener: .....

Abstract

The Online Food Ordering System described in this report has been designed to fill a specific goal in the market by providing small restaurants with the ability to offer their customers an online ordering option without having to invest large amounts of time and money in having custom software designed specifically for them. The system, which is highly customizable, allows the restaurant employees to easily manage the site content, most importantly the menu, themselves through a very intuitive graphical interface.

The website, which is the only component seen by the restaurant customers, is then built dynamically based on the current state of the system, so any changes made are reflected in real time. Visitors to the site, once registered, are then able to easily navigate this menu, add food items to their order, and specify delivery options with only a few clicks, greatly simplifying the ordering process. Back in the restaurant, placed orders are promptly retrieved and displayed in an easily readable format for efficient processing.

The purpose of this report is to provide in-depth descriptions of design and implementation details of the system, as well as descriptions of all available functionality and plans for evolution. In addition, user manuals and trouble-shooting tips have been included for all three components to give the reader a clear idea of intended typical use cases for the system.

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Chapter 1

Introduction

An internship is a learning experience offered by organizations, to graduating students, over a given period of time. It allows students and interns to understanding of a real job framework and acquire knowledge in their particular field of work.

The internship works as a final polish for graduating students, and provides them with an experience of office environment. This aids the graduating students to become more confident, and bold as employees, allowing them better chances of future job opportunities.

It also provides students a significant chance to relate their knowledge with the competitive and real job market environment. After completing an internship, a student gets confidence and skill which helps to gain experience for a future career. I got an opportunity to intern in MegaTech Solution Ltd. Working for a corporate software tech company was challenging but motivational.

1.1 Background

Online Food Ordering System is a part of e-commerce. E-commerce or business through net means distributing, buying, selling, marketing, and servicing of products or services over electronic systems such as the Internet and other computer networks. Thus if we own a restaurant we need to upload menus online to attract potential customers.

The online food ordering system gives restaurants the ability to increase sales and expand their business by giving customers the facility to order food online.

With an online restaurant menu ordering system, customers can place orders online anytime from anywhere. Thus it is a simple, fast and convenient food ordering system giving an edge over the competition at an affordable price.

The Internet has seen a tremendous growth in terms of coverage and awareness. So giving the business an online presence has become very crucial and important.

1.2 Objectives

The main objective of this project is to develop an application which gives provision to the restaurant owners to flourish their business by uploading menus at no cost and will invariably lead to higher customer retention and acquisition rates.

We can set up our restaurant menu online and the customers can easily place orders with a simple mouse click. Also with a food menu online we can easily track the orders, maintain the customer's database and improve the food delivery service. We can receive orders through e-mails/ fax or directly view on the internet. The restaurants' can even customize online restaurant menus and upload images easily. Having a restaurant menu on the internet, potential customers can easily access it and place orders at their convenience.

The project is organized for a new online food delivery company. They are our clients in the project. This is a client-based project so I can't reveal the whole outcome of the project. So I will give a demo of the project we are working on. This application was created by utilizing HTML, CSS, and JavaScript at the customer/client side while PHP and MySQL on the server-side. So, my supervisor informed us about the project and we came up with features of the project and added the requirement of the client. This report provides the overview of the project and architectural overview of the system.

1.3 Scopes of the project

- Manage Orders
- Manage Profile
- Manage Address
- Notification Configure
- Manage Daily Orders
- Manage Products
- Categories
- Purchase
- Stock
- Sales Order
- Manage Delivery Time Schedule

1.4 Company Profile

MegaTech Solution Ltd is a startup company that has some departments for different types of work. It offers clients quality services, policies, and promising tactics by assuring clients the very best service in each category. The whole team is passionate, dynamic and focused when it's time to escalate a business in the digital world. It holds technical expertise in the IT sectors which helps to build a digital business in every aspect.
As a startup company it has some basic departments such as HR, Business Development, Engineering, Security, Marketing department. It has a group of experts as from different fields to make reliable products.
Now to cope up with this rapid change, they are developing their organization through IT solutions to ensure the best possible solution. Generally, Economic value is the measurement of the benefit derived from a good or service to a company. Economic value can also be the maximum price or amount of money that someone is willing to pay for a service.

1.4.1 Mission & Vision of MegaTech Solution Ltd

Mission

MegaTech Solution Ltd wants to contribute to digital Bangladesh and try to fulfill demand in the IT sector and also research about new technology.

Vision

MegaTech Solution Ltd wants to figure out the needs of the IT market and research those and try to provide the best solution to fulfill the needs.

Chapter 2

2 Literature Review

A literature review could be a learned paper that presents the present information together with substantive findings moreover as theoretical and method contributions to a specific topic. An automated food ordering system is proposed which will keep track of user orders smartly. Basically, they implemented a food ordering system for different types of restaurants in which users will make orders or make custom food by one click only.

It is referred to as a set of detail methods that is being used in handling the ordering process. Food ordering can be computerized or done manually. This helps the customer to order their food themselves which is known as the customer self-ordering system. The customer self-ordering system from online can be defined as a computerized system that is being used by customers to place their own orders in the restaurant and allow the orders to be tracked, in order to prepare and deliver the food to the computers.

The online food ordering system is one of the latest servicers 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 systems. Customers pay with their credit cards, although credit card customers can be served even before they make payment either through cash. So, the system designed in this project will enable customers to go online and place orders for their food.

2.1 Relation With Undergraduate Courses

I have done numerous courses in my university life. These three courses are related to my internship work, such as Database Management(CSE303), System Analysis and Design (CSE307), Web Application & Internet(CSE309).

The course that helped me to understand and enjoy creating a website is Web Application & Internet (CSE309), a computer program that utilizes web browsers and web technology to perform errands over the Web. Web applications utilize a combination of server-side scripts (PHP and ASP) to handle the storage and retrieval of the data, and client-side scripts (JavaScript and HTML) to show data to clients.

The next course helped me to understand the structural system of any application which is Database Management (CSE303). This is one of the basic courses where I learned about the Database development process and Database languages. E-R Model, Transferring ERD to Relations, Introduction to normalization, and Introduction to Structured Query Language was part of this course. Database Management can portray the information capacity, operations, and security practices of a Database Administrator (DBA), all through the life cycle of the information. Overseeing a database includes planning, actualizing, and supporting put away information, to maximize its esteem.

In a very similar way System Analysis and Design (CSE307), System analysis is conducted for the reason for considering a framework or its parts in order to distinguish its goals. It could be an issue tackling a strategy that strides the system and guarantees that all the components of the system work effectively to achieve their reason. It could be a process of planning an unused business system or supplanting an existing framework by characterizing its components or modules to satisfy the particular necessities. Sometimes arranging you wish to get the old system completely and decide how computers can best be utilized in order to function presciently.

2.2 Related Works

- Technology plays a premium role in every industry. The trend bug has bitten the restaurant industry too with the food ordering system.
- Restaurant owners who are constantly trying to ‘level-up’ their business, enforce the software for ordering and delivery.
- There is a lot of hesitation among the community to implement the system, thinking that the process is complicated.
- Food ordering website can sell Food products, preferred brands, kitchen needs, essential restaurant supplies and more, through this online, one-stop Food store.
- It provides people with a convenient way to sell from your Food shopping app.
- People use this type of online food delivery website regularly as their daily need. This type of website makes it easy for users to buy food from their home with easy steps and easy orders.
- When the customer visits the ordering webpage, they are presented with an interactive and up-to-date menu, complete with all available options and dynamically adjusting prices based on the selected options.
- After making a selection, the item is then added to their order, which the customer can review the details of at any time before checking out.
- This provides instant visual confirmation of what was selected and ensures that items in the order are, in fact, what was intended.

Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure

1. Team Leader
    - Project Scoping.
    - Flow Diagram.
    - Impact Analysis.

2. Front End Developer.
    - Home page
    - Login.
    - Menu bar.
    - Product overview.

3. Admin.
    - Edit user list.
    - View user list.

4. Back End Developer.
    - Home page
    - Login function.
    - Graph function.
    - Slide shift function.
    - Order overview shift function.

5. Admin.
    - Edit Function
    - Change password function.
    - Show possible list.
    - Create function.
    - Edit function.
    - Change password function.
    - Create function.
    - Edit Personal information.
    - Change password function.
    - Show user list.

- Add new image
- Delete and edit image
- Make comments

6. Testing Process.
    - Testing Plans
    - Debug.
    - Loading Demo user Data

7. Lunch/Deployment
    - Establish target date
    - Create communication plan
    - Search engine optimization
    - Deploy the project on a server.

3.2 Process/Activity Wise Time Distribution

Earlier Work Breakdown Structure is constructed where all the activities are included. We try to complete those with a definite time. For working with a team project, maintaining time and working a long-side with team members, time scheduling is done.
Then work is divided among the project team. To maintain work now delivery time is estimated to be 85 days for the project. I worked as a front end developer in this project. There were 12 people in our team. We finished our part of the project in less than 30 days.

Table 3.1: Time Distribution Table

No	Task	Days	Work Percentage
1	Team Leader.	7	9%
2	Front End Developer.	25	30%
3	Back End Developer.	35	40%
4	Testing Process.	13	15%
5	Lunch/Deployment.	5	6%
	Total	85	100%

3.3 Gantt Chart

The Gantt chart illustrates the project schedule. Dependency relationships between the activities with time is shown in the next page. Work Breakdown Structure shows the amount of activities and to complete these activities a certain time is required which is represented in the Gantt chart.

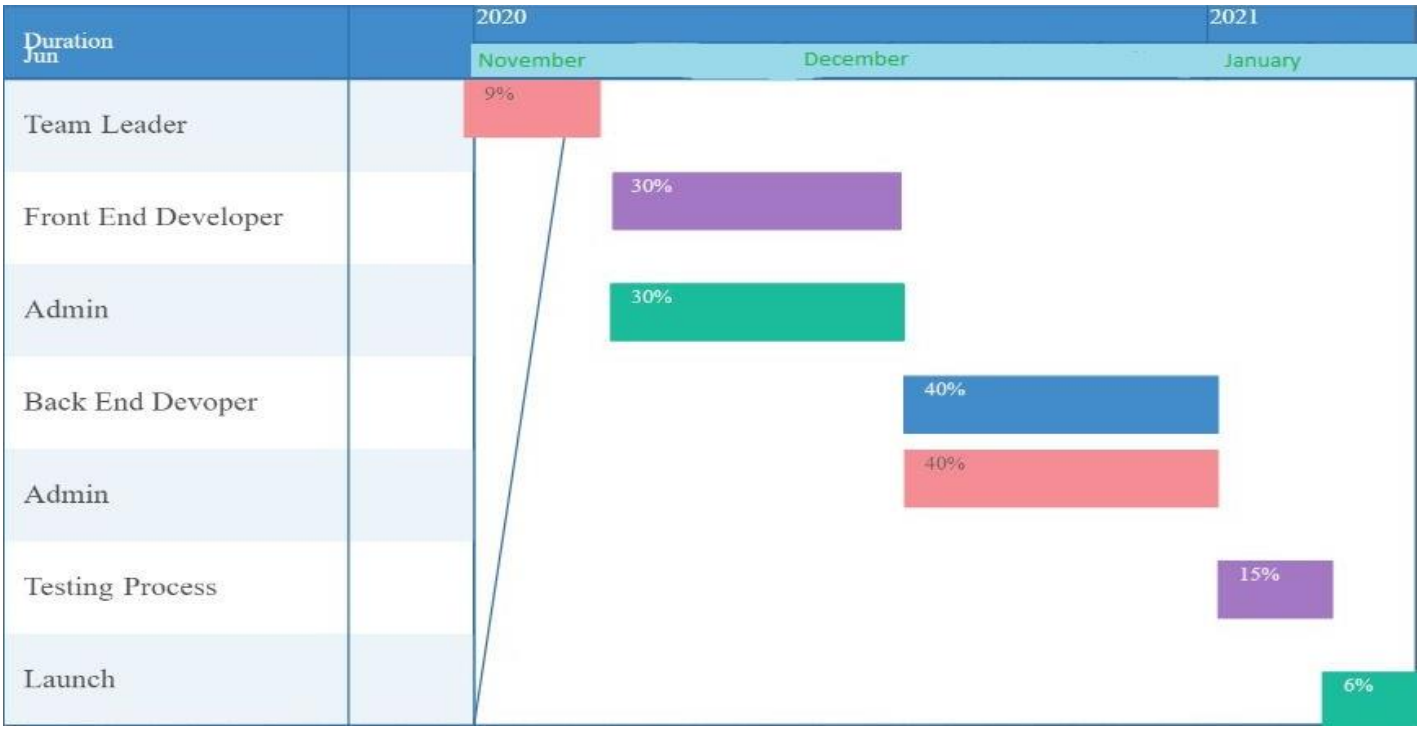

Figure 3.1: The Gantt Chart Diagram

3.4 Process/Activity Wise Resource Allocation & Estimated Costing

The initial Estimated Costing was around 45,000 taka. Later it will be increased on the changes on the software and maintains cost.

3.5 Estimated Costing

Table 3.2: Estimated Costing Table

No	Task	Days	Money Spend
1	Team Leader.	7	4000 Taka
2	Front End Developer.	25	12500 Taka
3	Back End Developer.	35	18000 Taka
4	Testing Process.	13	7500 Taka
5	Lunch/Deployment.	5	3000 Taka
	Total	85	45000 Taka

There were some additional costs which were not disclosed to us by our Team Leader. So, this table does not show the actual cost of this project.

Chapter 4

Methodology

4.1 Agile

To develop the project, we followed the Agile Methodology. Agile is the capacity to make and respond to change. It is a method of managing, and at last, prevailing in an unsure and tempestuous condition.
Agile methodology is a sort of undertaking the executive's procedure, mostly utilized for programming advancement, where requests and arrangements advance through the aggregate exertion of automatic and multi portion groups and their customers.

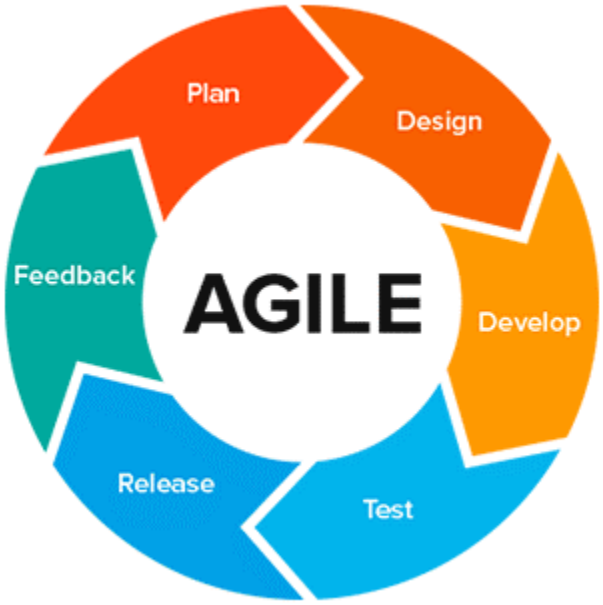

Figure 4.1: Agile System Analysis

The reason for using Agile:

• There is room for adjustments.

• Little documentation.

• Feedback is provided at intervals.

• There is constant research.

• Focuses on revenue.

• It is product oriented.

4.2 Language Selection

There are numerous scripting tongues available within the advertisement. VB-Script, Perl, JS (JavaScript), JSP (Java Server Pages), ASP (Dynamic Server Pages), and PHP (Hypertext Preprocessor) are a parcel of those commonly utilized.

But, for my company policy I'm not able to discuss the details of the project. I have also created a demo site that I'll discuss in the latter part of this report.

4.3 Database Selection

There's a grouping of databases that are ready to select from the showcase. The broadly utilized databases are Microsoft Get to, Microsoft SQL, rebase, MySql, and so forward. Taking a gander at Microsoft Get to, it doesn't energize concurrent utilization and it may well be inefficient, as the database ought to be saved into one. It is moreover less efficient to prepare fast and tremendous size databases when differentiated with MySql.

However MySql database may be freeware. Furthermore, the MySql database is anything but simple to introduce, simple to get it, dependable, and can run on diverse stages.

4.4 Designing

4.4.1 ERD (Entity Relationship Diagram)

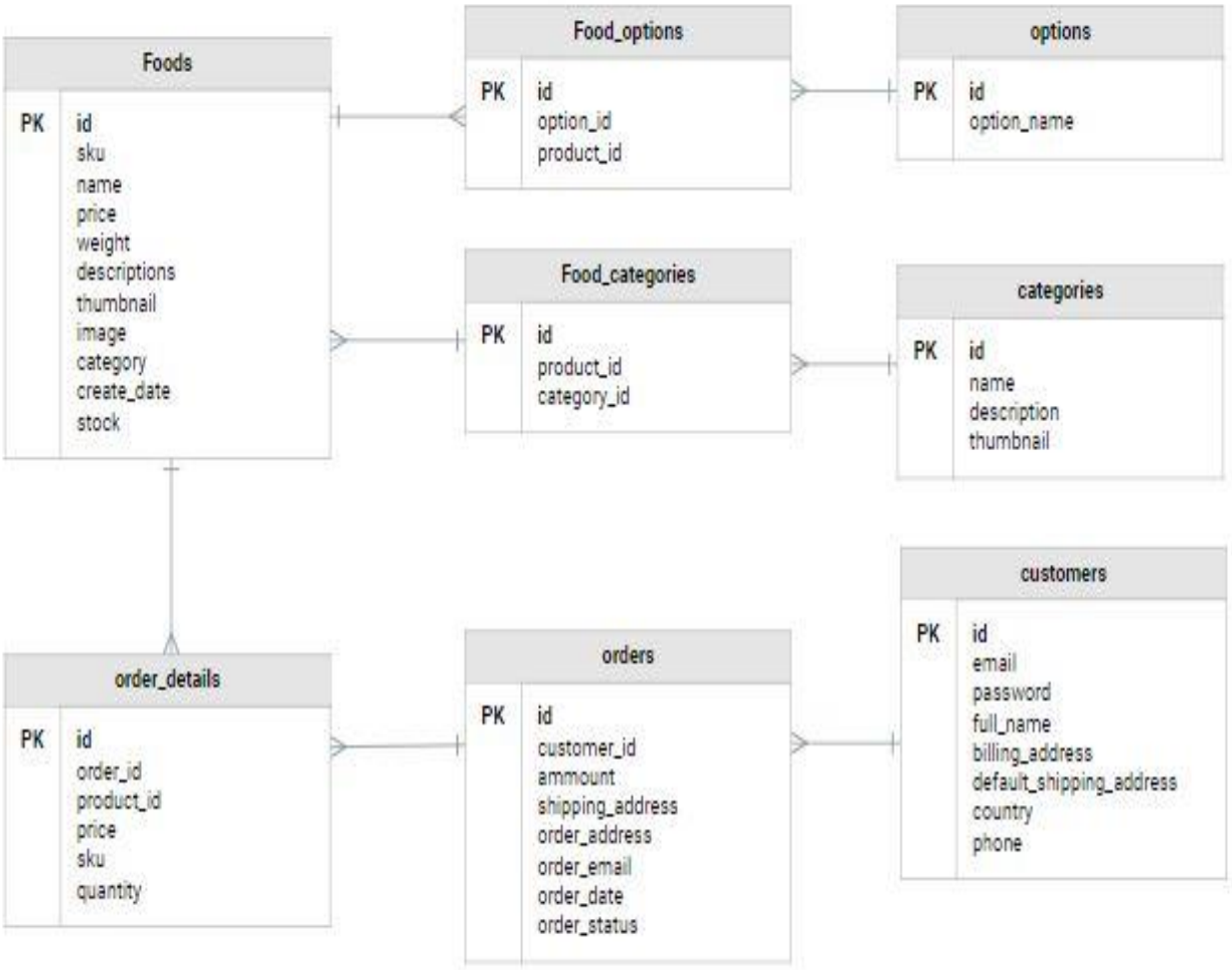

Figure 4.2: Entity Relationship Diagram of Online Food Ordering System

4.4.2 Data Dictionary

Foods

Table 4.1: Foods Table

Field name	Remarks	Data type	Size
food_id	No. of the food	Integer	11
food_name	Name of the food	Varchar	20
food_price	Price of the food	Varchar	20
description	Details of the food	Varchar	500
stock	Availability of the food	tinyint	3

Customers

Table 4.2: Customers Table

Field name	Remarks	Data type	Size
id	It will have the id number of the user.	Integer	11
name	It will have the name of the user.	Varchar	30
email	It will have the email of the user.	Varchar	30
mobile_no	It will have the mobile number of the user.	Varchar	10
password	It will store the password of the user.	Varchar	10
address	It will have the address of the user.	Varchar	100

Orders

Table 4.3: Orders Table

Field name	Remarks	Data type	Size
order_id	No. of the order	Integer	11
product_id	No. of the food	Integer	11
food_price	Price of the food	Varchar	20
description	Details of the order	Varchar	500
quantity	Quantity of the order	Integer	15
address	Address of the user	Varchar	100

4.5 Stakeholders

The term stakeholder refers to the people affected by a software development project.

An online ordering food ordering system has the following stakeholders.

- **Customers**

Those who order food from restaurants through the online ordering system.

- **Restaurant Owners**

The owners of the online ordering system or the restaurant.

- **Admin**

Admin will be appointed by the owner of the system.

Customers of the system will have the access of followings:

• Create an account.

• Manage their account.

• Log in to the system.

• Navigate the restaurant’s menu.

• Select an item from the menu.

• Add an item to their current order.

• Review their current order.

• Remove an item/remove all items from their current order.

• Provide payment details.

• Place an order.

• Receive confirmation in the form of an order number.

• View order placed.

Admin of the system will have the access of followings:

• Add/update/delete food categories to/from the menu.

• Add /update/delete food items to/from the menu.

• Update price for a given food item.

• Update additional information (description, photo, etc.) for a given food item.

4.4.2 Use Case Design

Customers can manage their profile, view food items, order their choice of food and check their respective views. The latest foods items, orders, and customer details can be controlled and checked by the admin.

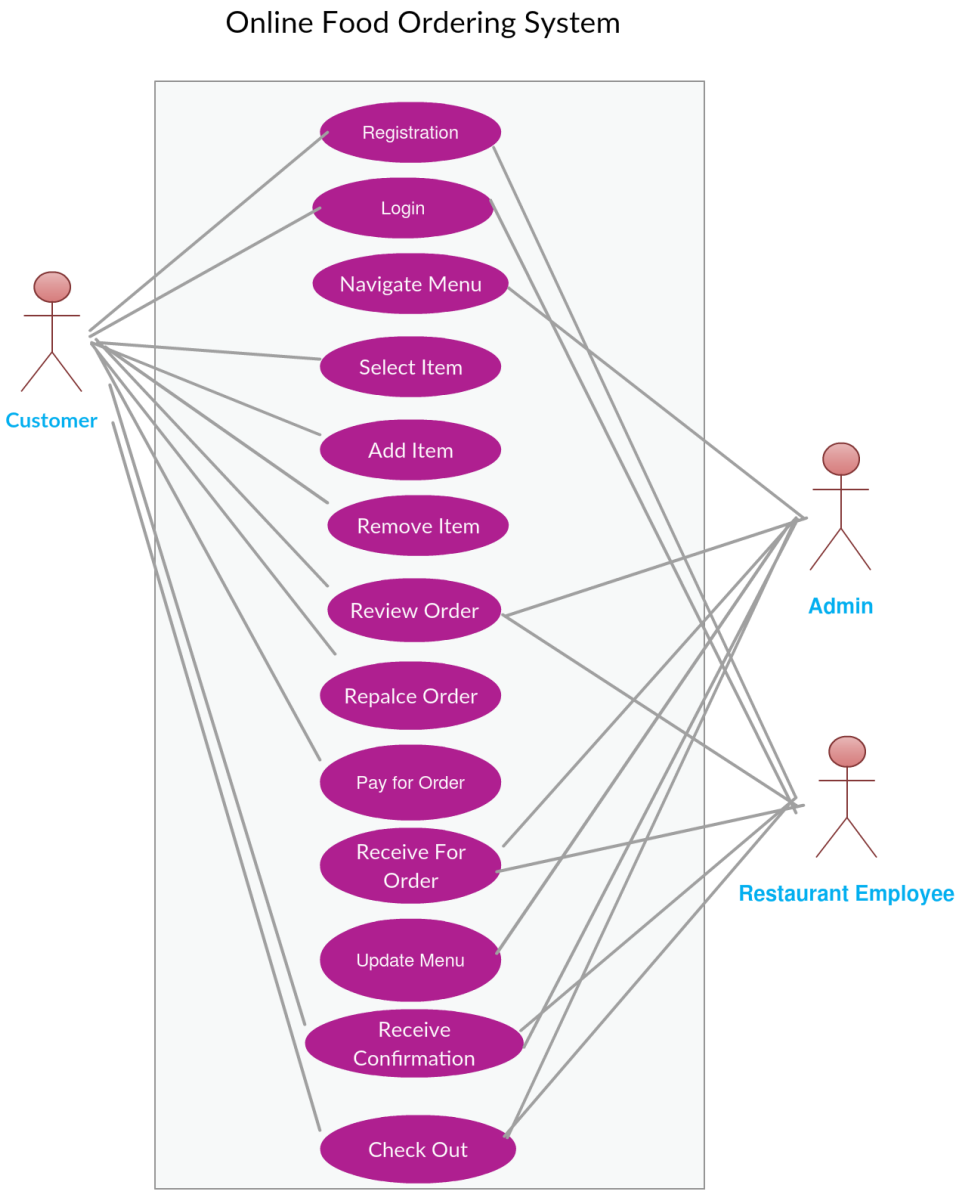

Fig 4.3: Use case diagram of the Online Food Ordering System

Chapter 5

Development Phase

5.1 Description Of The Work

The online food ordering system has a lot of scopes and we can tap it as far as we can as everyone has access to an online ordering facility through the internet. This food order management system is a web-based application that is built on Php with CSS and js (javascript). And for the backend of the system, the SQL server has been used. (i.e. Database) so that it will be easy to retrieve later.

The system is basically for the users where they can add and also modify the orders. The users of the system include the customers where they can register initially with the minimum details and will be allowed to check the menu items before ordering them, adding them to the list and submitting the order. The user of the system also includes employee/admin who will handle a number of users (i.e. Customers) and info related to the product addition. They are also responsible for updating the menu items.

All the activities such as adding the items, ordering them, etc. will be recorded in the database for all the events. For the more secure system, the login system is integrated. The system also supports payment methods and generates a bill that will initially help users to pay for their ordered items.

5.2 System Analysis

5.2.1 Six Elements Analysis

Table 5.1: Six Elements Analysis Table (Customer)

Process	**Human**	**Non-computing hardware**	**Computing hardware**	**Software**	**Database**	**Communication**
Login, forget pass-word And change password	Customer		PC /Laptop /Mobile to login.		MySQL	Internet
View food item	Customer		PC /Laptop /Mobile to login.		MySQL	Internet
Order food item	Customer		PC /Laptop /Mobile to login.		MySQL	Internet
Manage customer account	Customer		PC /Laptop /Mobile to login.		MySQL	Internet
Review the food item	Customer		PC /Laptop /Mobile to login.		MySQL	Internet
Compare food item	Customer		PC /Laptop /Mobile to login.		MySQL	Internet

Table 5.2: Six Elements Analysis Table (Admin)

Process	**Human**	**Non-computing hardware**	**Computing hardware**	**Software**	**Database**	**Communication**
Login, forget pass-word And change password	Admin		PC /Laptop /Mobile to login.		MySQL	Internet
View food item	Admin		PC /Laptop /Mobile to login.		MySQL	Internet
Add/Modify food item	Admin		PC /Laptop /Mobile to login.		MySQL	Internet
Manage customer account	Admin		PC /Laptop /Mobile to login.		MySQL	Internet
Review the complaint from customer	Admin		PC /Laptop /Mobile to login.		MySQL	Internet
Customize the system	Admin		PC /Laptop /Mobile to login.		MySQL	Internet

5.2.2 Feasibility Analysis

5.2.2.1 Technical Feasibility

The feasibility study is an important phase during the development of any project, its goal is to determine whether the project is doable or not. My project is about building a web application, which purpose is to help people in choosing their favorite food from nearby restaurants, and giving the ability to restaurant managers to better communicate with their customers.

First, the technical feasibility is to understand if it is possible to complete the project with the current technologies. This application is going to use many programming languages and frameworks in order to ensure a good user experience for the end user, as well as adopting good coding practices for the developer. The structure of the application will consist of a backend and a frontend, its purpose is to handle database queries, authentication, and to serve easily. The frontend should be completed using HTML, CSS, and javascript.

Second, the temporal feasibility is crucial to make sure that it is possible to complete the project on time. There would be a development phase in which I would have to code the application with the chosen tools. Also, there will be a learning phase, during which, I will have to read about the technologies that I would be using for this project. Since I am already familiar with some of these technologies, thanks to the courses I have completed and to my internship experience, I will only focus on the ones I do not know.

5.2.2.2 Economic Feasibility

Doing all the tasks manually had a waste of high cost and manpower. With the current system, the work becomes easier and cost has reduced. In the old system, the work was done through multiple channels. But now the work is handled through the software and less manpower is required and time takes less.

The economic feasibility is essential to know the budget needed for the completion of the application, and how much income it would be able to generate once released. The necessary budget for this project is low, the technologies needed for this project are free to use. This application can be monetized using different plans. Another technique is to get a commission for every order, which means that every time the user orders something from a restaurant, a small fee should be paid for the maintenance of the application. The third technique would be to adopt the freemium model, the application would have a free tier, which the users and the managers would be able to use without cost, and in addition, a paid tier that is going to give more functionalities to the restaurant manager.

5.2.2.3 Operational Feasibility

It is primarily related to human organizational as social angles. The focuses to be considered are - this system interface is standard, user-friendly, and gives broad over assistance. Subsequently, no extraordinary preparation isn't required. The new system is easy to operate for an agent and department and taking part is simple communication.

5.2.2.4 Social Feasibility

Social feasibility is the assurance of whether a proposed extent will be satisfactory to individuals or not. The system is organized concurring with client requirements and preferences. So, this feasibility is accessible in this software.

5.3 System Design

5.3.1 Rich Picture

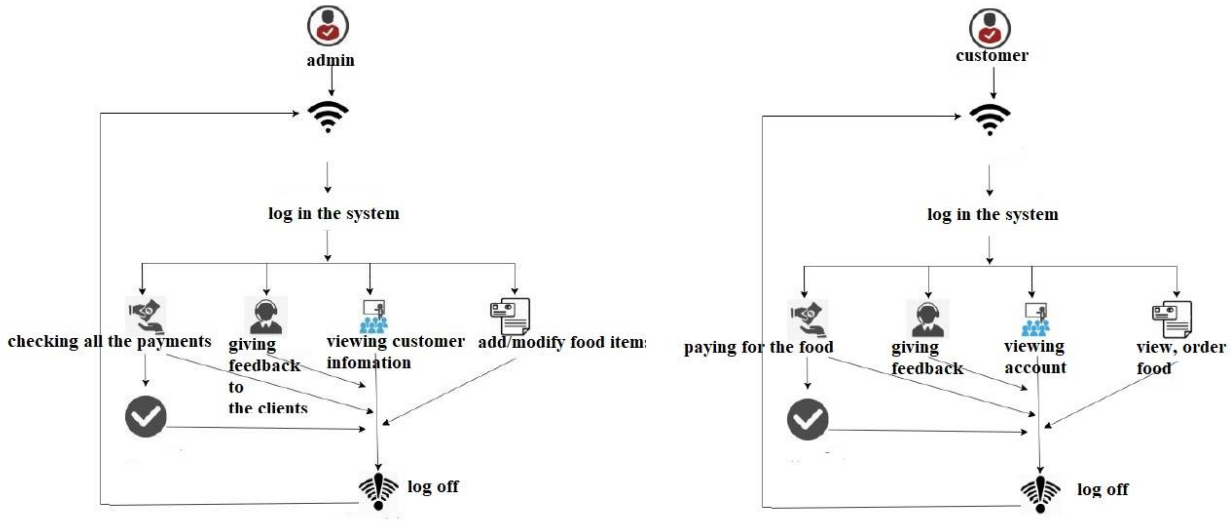

Figure 5.1: Rich Picture of System

5.3.2 System Flow Chart

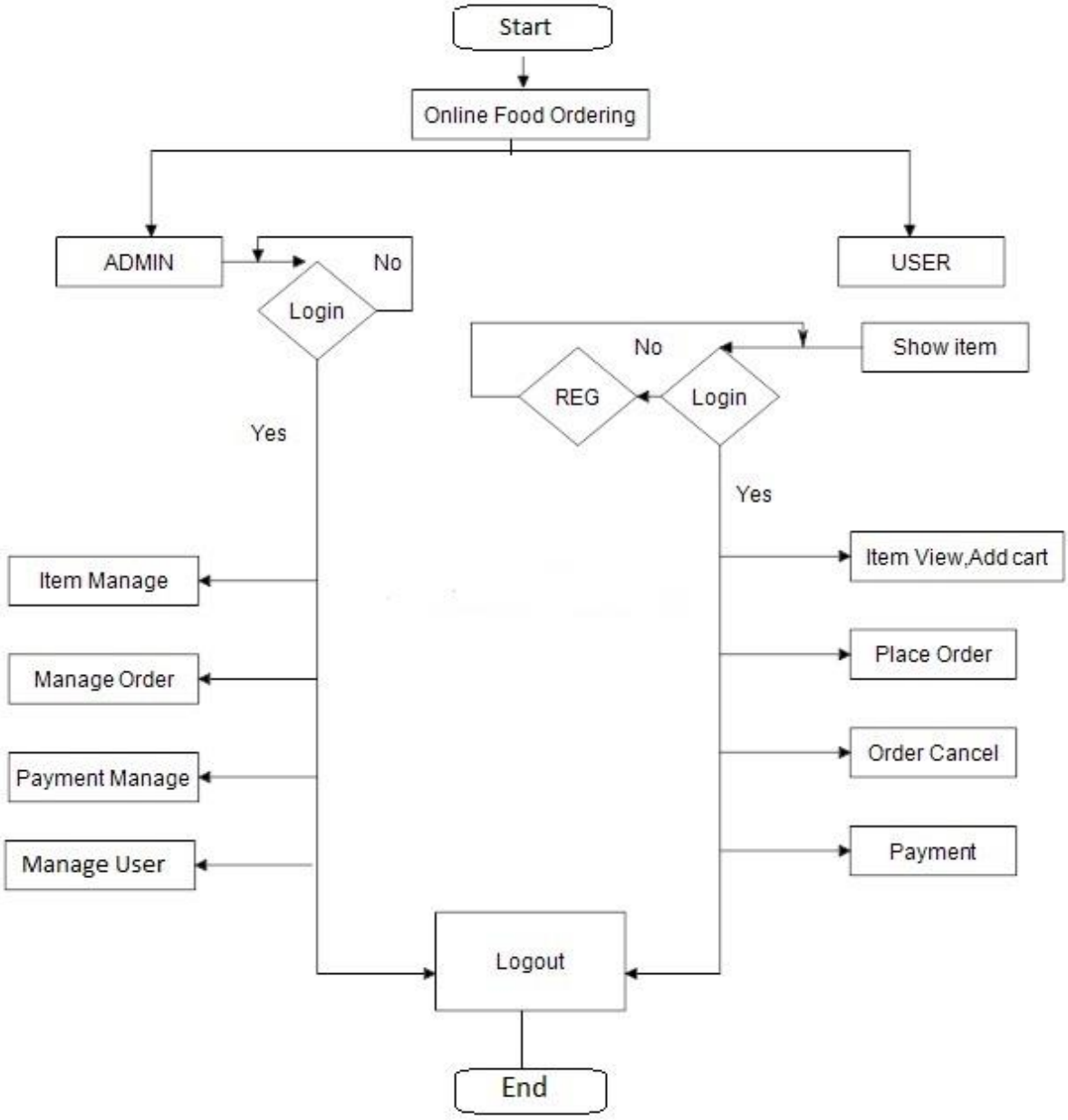

Figure 5.2: Flow Chart of System

5.3.3 UML Activity Diagram (Customer)

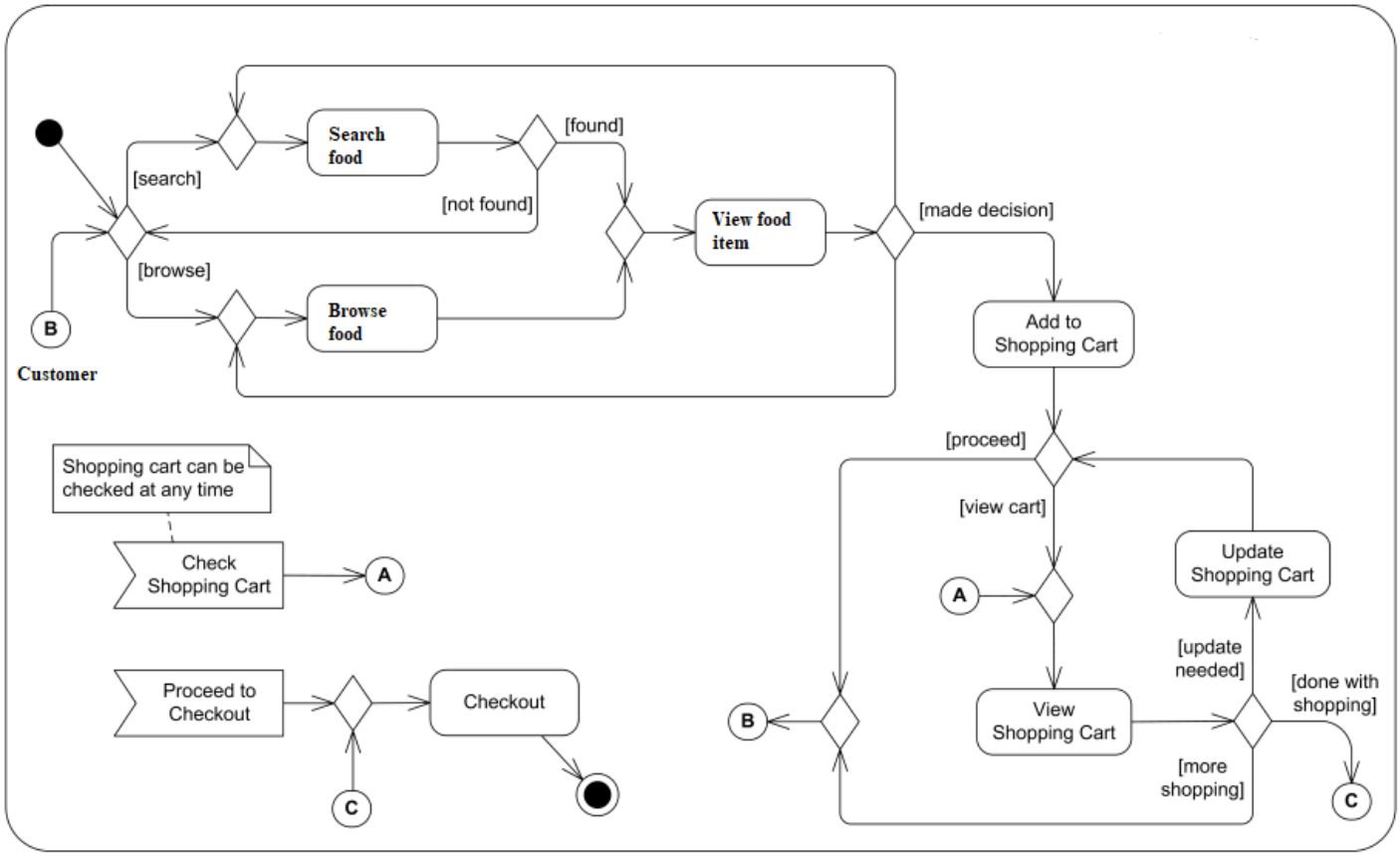

Figure 5.3: Activity Diagram of System

5.3.4 Data Flow Diagram (Admin)

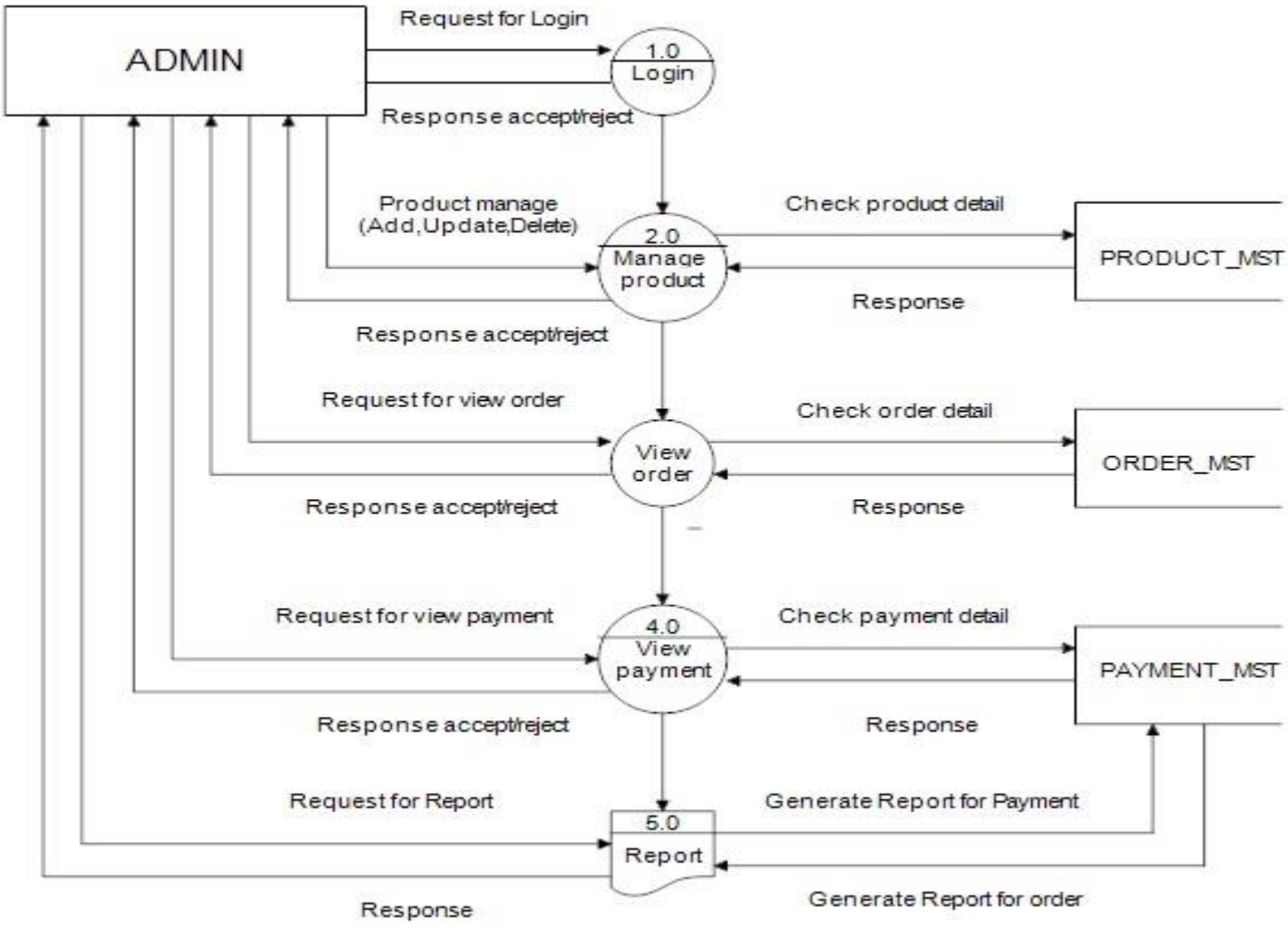

Fig: Data Flow Diagram of system

5.3.5 Functional and Non-Functional Requirements

5.3.5.1 Functional Requirement:

Customers

- A user shall be able to sign up using his/her email address
- A user shall be able to sign in using his/her email address
- A user shall be able to search for restaurants by category, city, and name
- A user shall be able to sort restaurants by nearest, most popular, and top rated
- A user shall be able to filter results by delivery type, category, and neighborhood
- A user shall be able to get more information about a specific restaurant such as description, opening hours, address, and pictures
- A user shall be able to grade and post a review about a restaurant
- A user shall be able to view the average grade of a restaurant and reviews from other users
- A user shall be able to view the restaurant's menu
- A user shall be able to select items from the restaurant's menu
- A logged user shall be able to make an order with the selected items from the restaurant's menu
- A user shall be able to view his/her orders

Admin

- A admin shall be able to sign up using his/her email
- A admin shall be able to sign in using his/her email
- A admin shall be able to add a restaurant
- A admin shall be able to add a menu to the system
- A admin shall be able to process the received orders
- A admin shall be able to view customers information
- A admin shall be able to change/modify restaurants information

5.3.5.2 Non-functional requirements

1. Performance

- Initial load time should not exceed one second

2. Scalability

- The increasing number of users should not affect the performance of the application

3. Extensibility

- New features shall be easy to implement with separation of concern

4. Security

a) Confidentiality

- Traffic confidentiality shall be protected, all operations performed by users must be preserved

b) Integrity

- The integrity of all operations performed by users must be preserved

c) Availability

- No single point of failure shall be tolerated

5.4 Product Features

5.4.1 Architecture

The software needs the architectural design to speak to the design of the software. A set of components that will perform a work required by the framework.

The set of connectors will offer assistance in coordination, communication, and participation between the components. Conditions that how components can be coordinated to create the framework. Semantic models offer assistance to the architect to get it in the general properties of the framework.

A client-server architecture may be an arrange design in which each computer or prepare on arrange is either a client or a server. Servers are effective computers or forms devoted to overseeing disk drives, printers, or network. Clients are PCs or workstations on which clients run applications. Clients depend on servers for assets, such as records, gadgets, and indeed preparing control. At that point the response from the application server is changed over into HTML organized through the web-server and shown within the standardized HTML web page. Admin, department, and call center agent login requests are prepared by the portal server. Numerous operators can work at the same time and make and unravel tickets separately.

Figure 5.5: Architecture Diagram

5.5 Implementation

5.5.1 Home Page

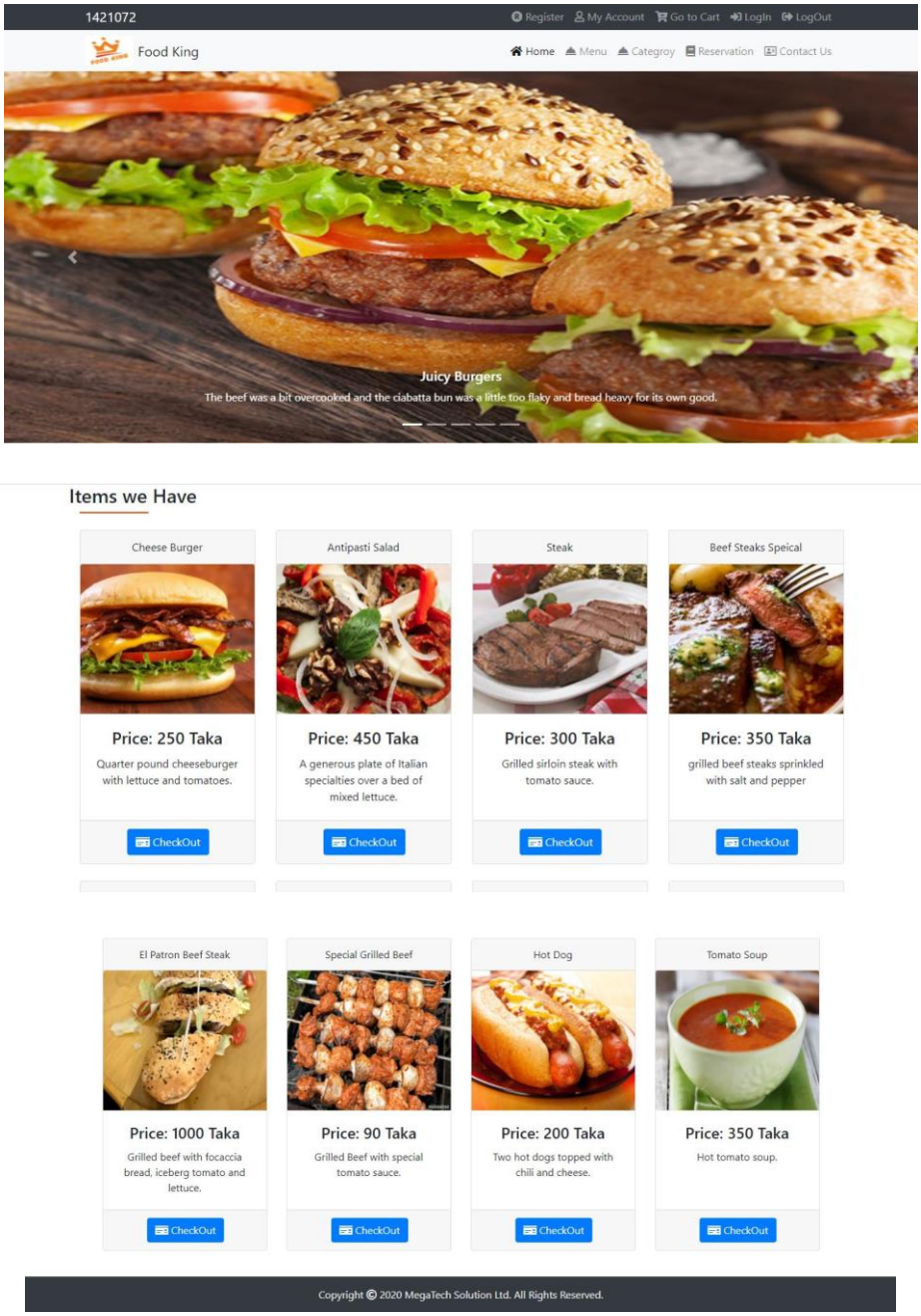

Figure 5.6 : Home page of Online Food Ordering System

5.5.2 Food Item Menu Page

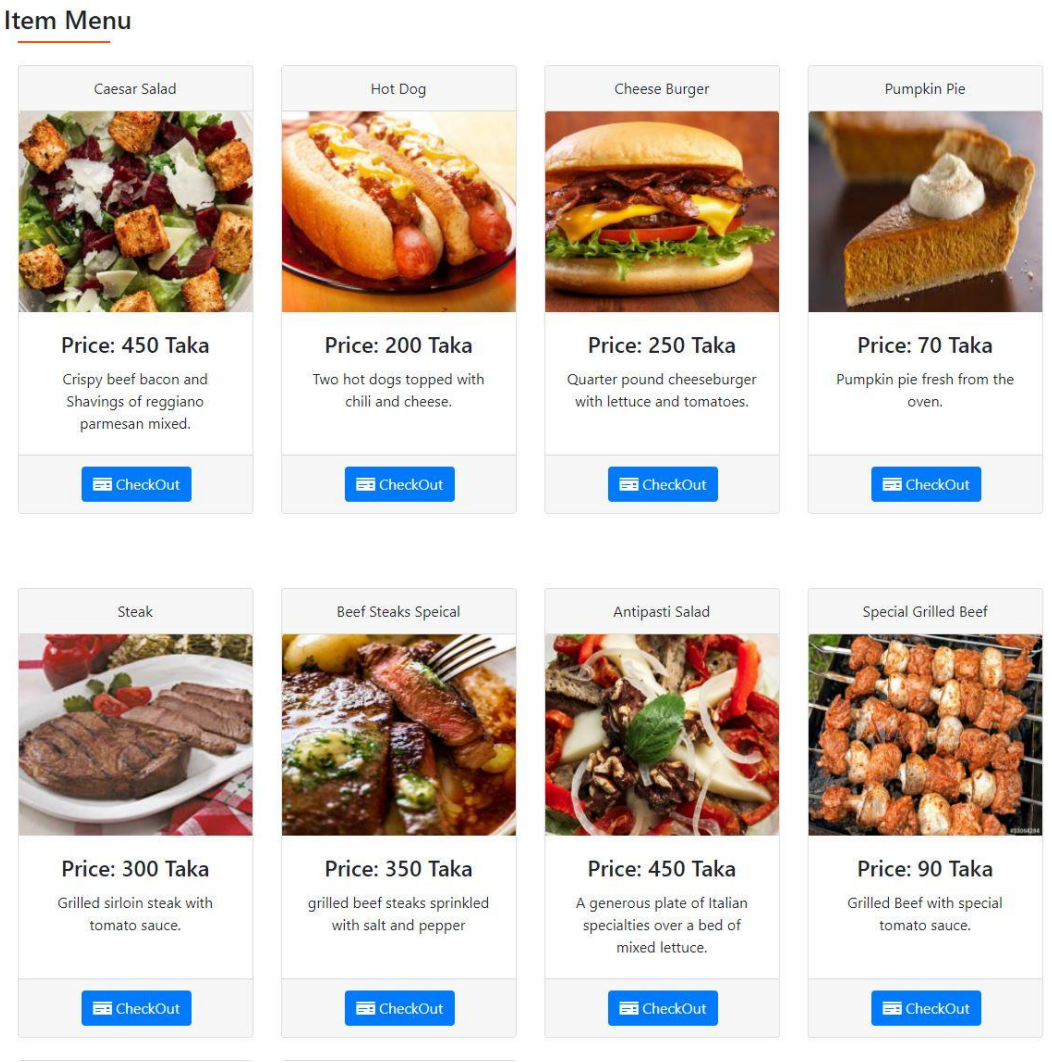

Figure 5.7 : Food Item Menu

5.5.3 Customer Registration Page

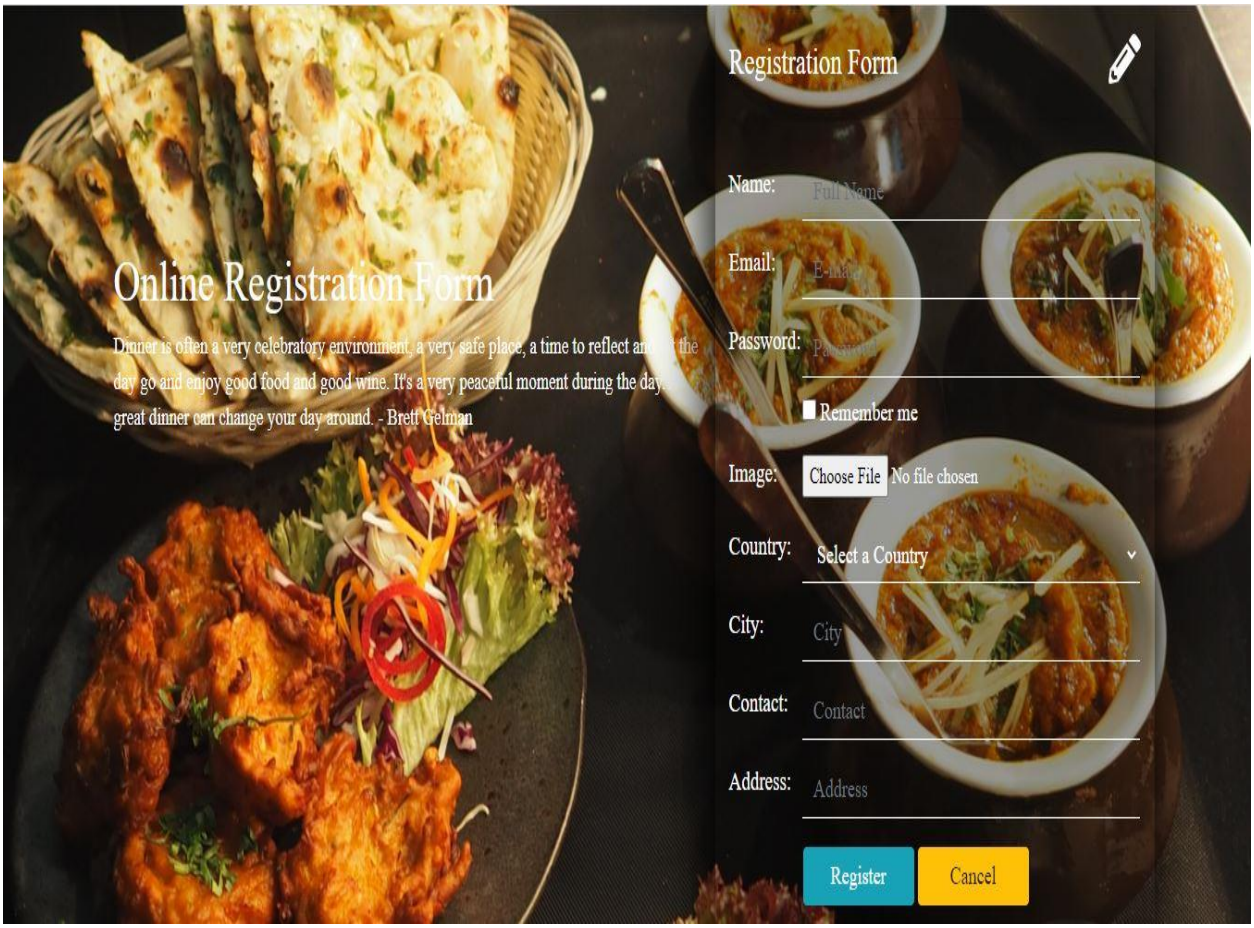

Fig 5.8: Customer Registration

5.5.4 Customer Login Page

Fig 5.9: Customer Login

5.5.5 Customer Profile Page

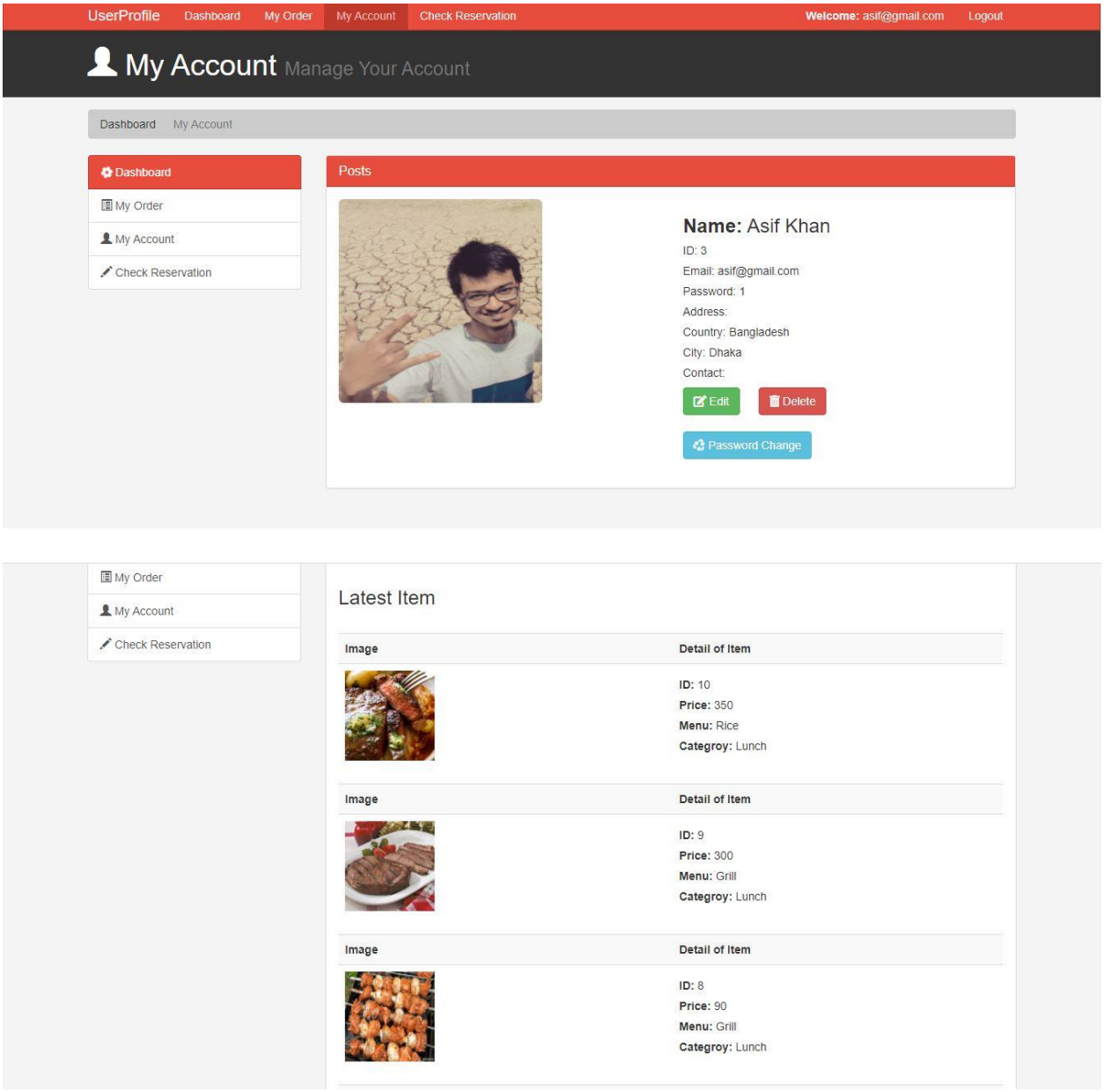

Fig 5.10: Customer Profile

5.5.6 Admin Login Page

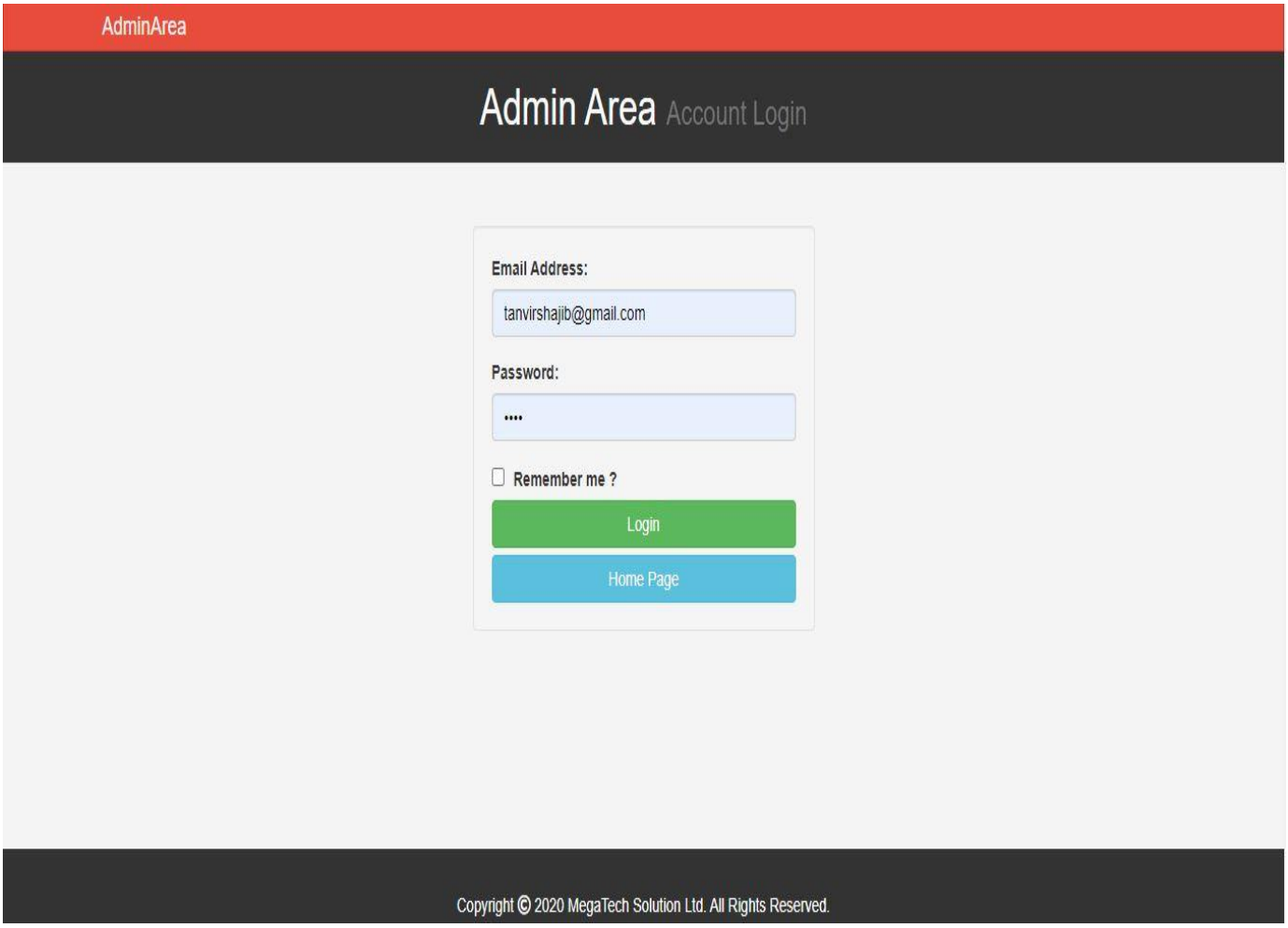

Fig 5.11: Admin Login

5.5.7 Admin Dashboard

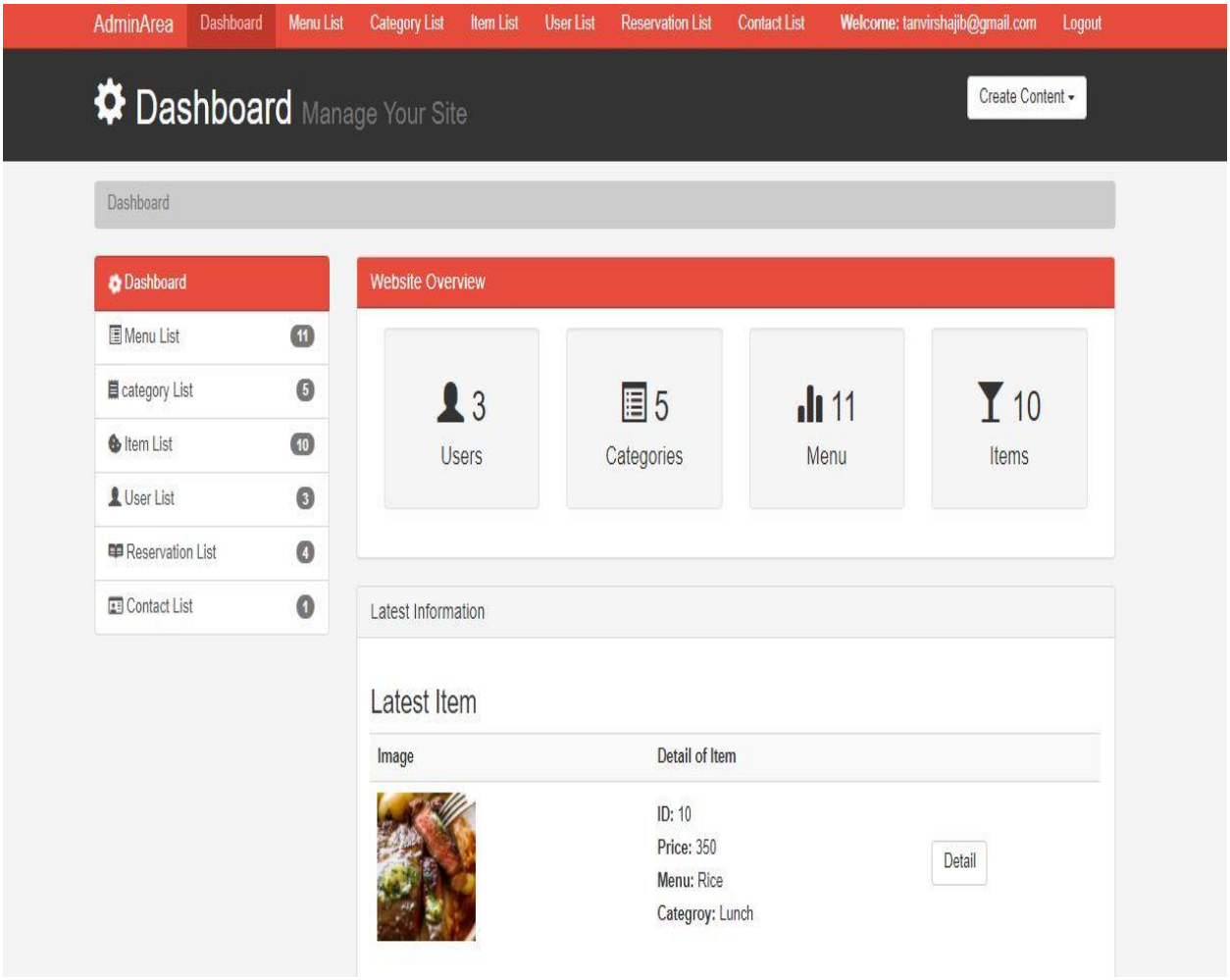

Fig 5.12: Admin Dashboard

5.5.8 Customer List

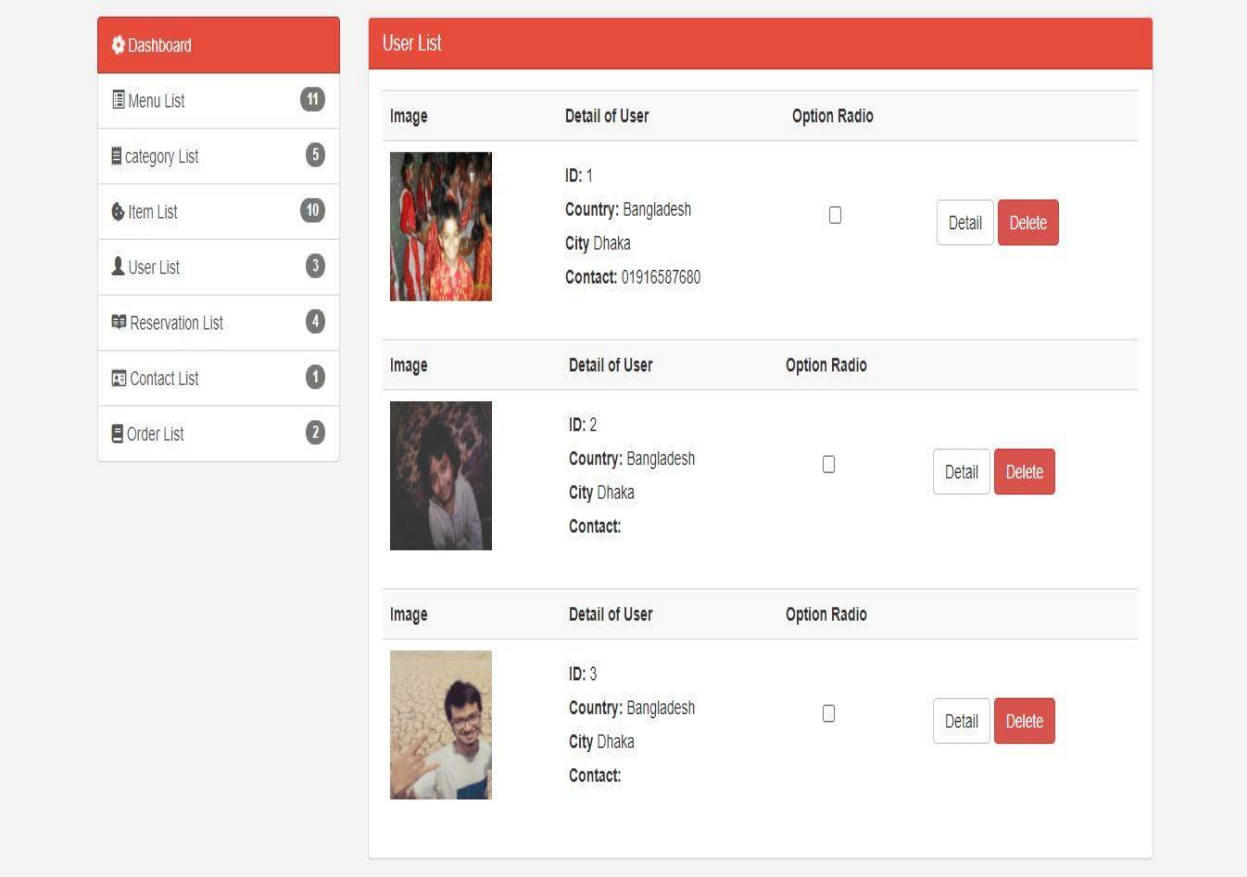

Fig 5.13: Customer List

5.5.9 Food Category

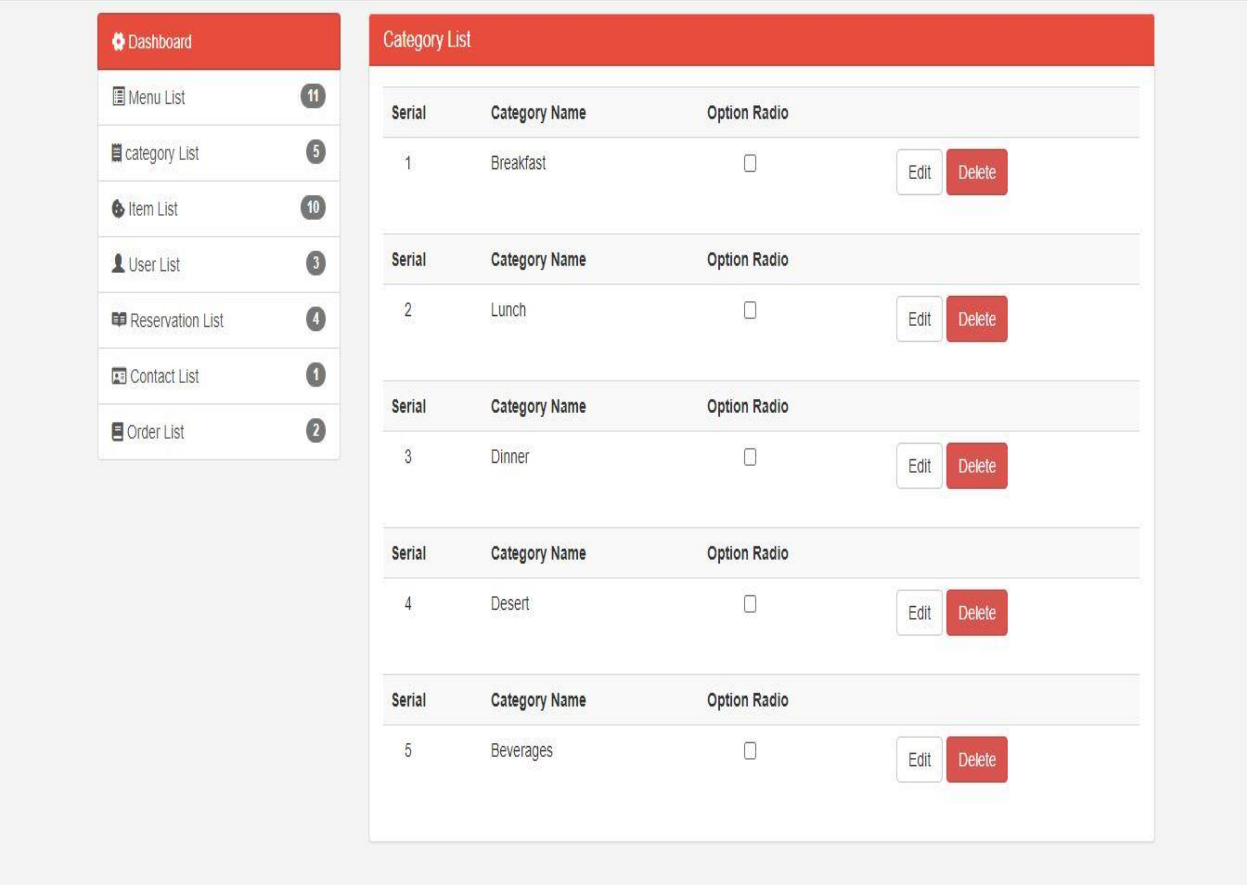

Fig 5.14: Food Category

5.5.10 Food Details

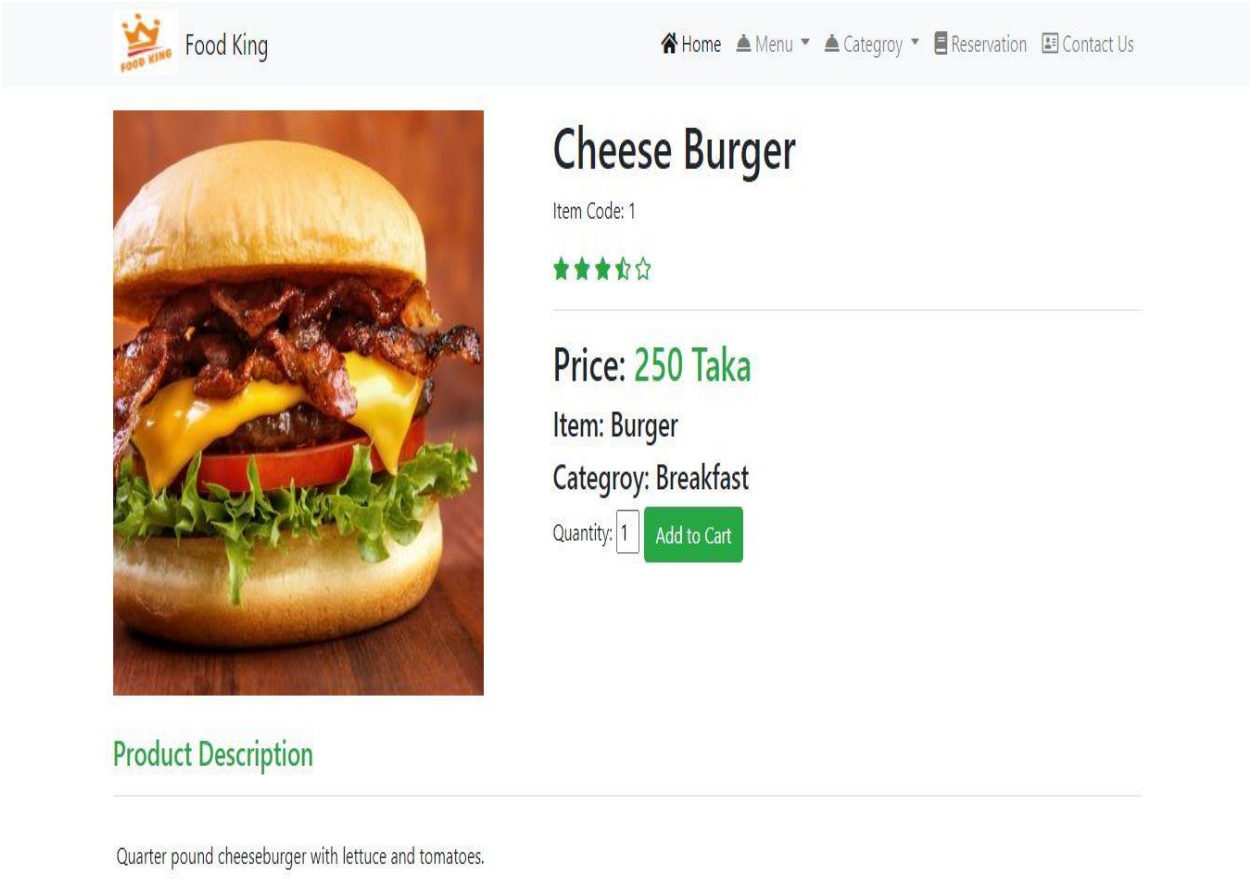

Fig 5.15: Food Details

5.6 PHP MY ADMIN:

phpMyAdmin is a web based open source tool to control administration of MySQL database. It is a tool popular with most web servers including Host-Gator. In figure displays phpMyAdmin database management page. Most frequently used operations like managing databases, tables, fields, relations, indexes and user's permissions are supported by the user interface. phpMyAdmin also provides the ability to directly execute any SQL statement.

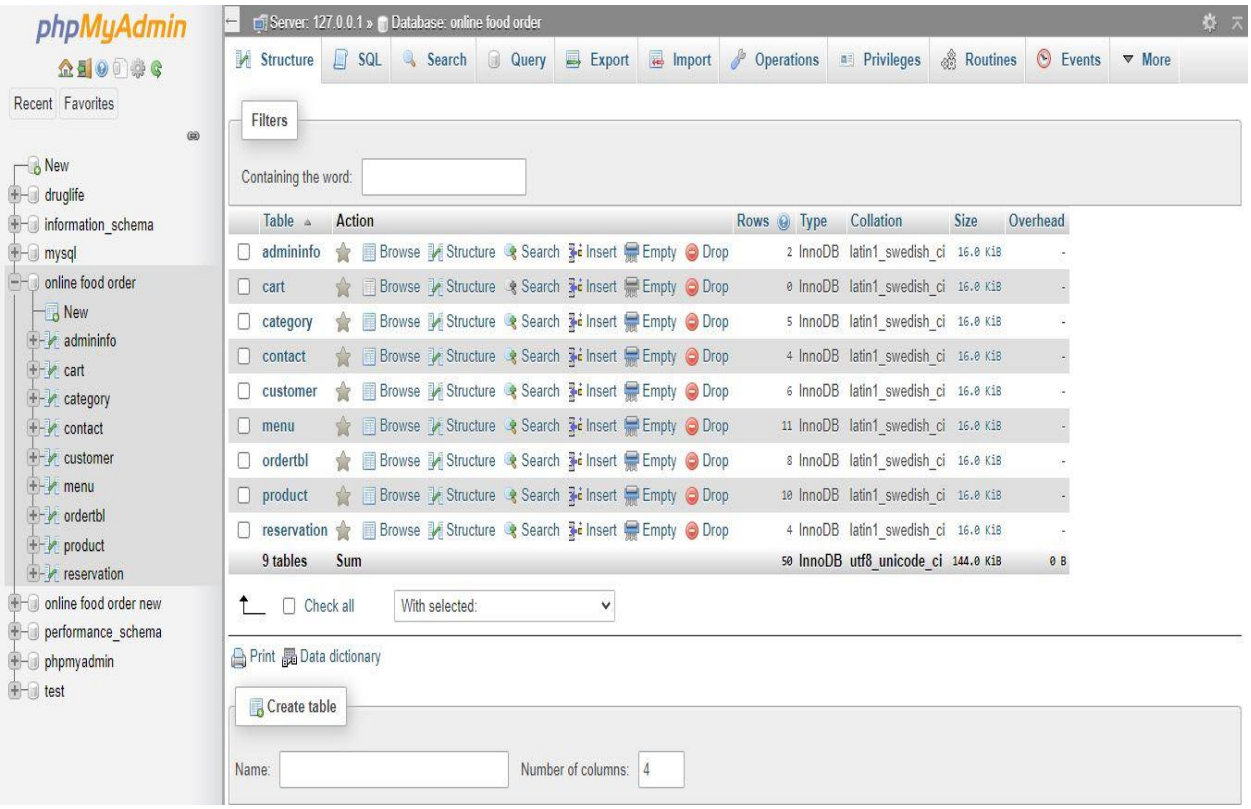

Figure 5.16: Database for Food King

Chapter 6

Result & Analysis

6.1 Software Testing

Software testing decides the accuracy, culmination, and nature of the software being created. Approval alludes to the way toward watching that the created software meets the necessities determined by the clients. The exercises engaged with the testing stage assess the ability of that framework meets its prerequisites. The fundamental goal of software testing is to recognize blunders in the product.

6.1.1 Test Cases

6.1.1.1 Admin login

Test task name	Purpose	Precondition	Test Steps	Expected result	Actual Result	Status	Remarks
Admin Login	Check if the login is successfully done.	Admin must have a device like desktop, laptop, smartphone with net connection.	1) Validate the admin input email address & password. 2)Click to submit button	If Admin input correctly website will logged into the admin panel Otherwise show error message	Software will logged in successfully	Pass	No Remarks

Table 6.1: Test Case Table for Admin login

6.1.1.2 User Registration

Test task name	Purpose	Precondition	Test Steps	Expected result	Actual Result	Status	Remarks
User Registration	Check if the user registration is successfully.	User must have a device like desktop, laptop, smartphone with net connection.	1) Validate the user input email address & password. 2)Click to Registration button	If User input correctly the user will redirect into the admin panel Otherwise show error message	Software will logged in successfully	Pass	No Remarks

Table 6.2: Test Case Table for User registration

User login

Test task name	Purpose	Precondition	Test Steps	Expected result	Actual Result	Status	Remarks
User Login	Check if the login is successfully done.	User must have a device like desktop, laptop, smartphone with net connection.	1) Validate the user input email address & password. 2)Click to submit button	If User input correctly user will redirect into the user panel Otherwise show error message	Software will logged in successfully	Pass	No Remarks

Table 6.3: Test Table for User login

Edit/Delete User Profile

Test task name	Purpose	Precondition	Test Steps	Expected result	Actual Result	Status	Remarks
Edit/ Delete User Profile	Check if the admin login is successfully done.	1) Admin must login into the website. 2)Visit the admin panel there will be an option	1) Click “edit” or “delete” button a form will appear. 2)The old data will be shown on the input field 3)Need to click edit button to change	Can check the change in the information The page will redirect into the main page or list view.	Website will show “updated is successfully done” message and go to the admin dashboard	Pass	No Remarks

Table 6.4: Test Table for Edit/ Delete User profile

6.2 Test Results

For justifying test cases there were few bugs found while running the software. Retrieving the data from the database, some issues came up. But in most of the cases the procedure runs smoothly. There were some issues with responsiveness but after a few tests the issue got resolved. The main task of this project is to create a user account and admin dashboard. Fortunately these tasks ran without any flaw. After getting some issues and bugs in other testing, I tried to go over all the problems and issues. I tried to fix all the problems as much as possible.

Chapter 7

Project as Engineering Problem Analysis

7.1 Sustainability of The Product/Work

The development of sustainable software has been identified as one of the key challenges within the field of Web Application. Sustainable development aims to meet show needs whereas guaranteeing supportability of common frameworks and the environment to not compromise the capacity of future generations to meet their possess needs Online Food Ordering System can last for 5 to 16 years without any changes.

To keep the software more sustainable, the maintenance of the system and user interface need to change from time to time to keep the function similar. This is because using the same software for a long time may reduce the modern development around us. To keep up with it, this system must be developed as well as software.

7.2 Social and Environmental Effects and Analysis

The most important effect of the Online Food Ordering System on a social level is its time-saving quality. Time is priceless and the extent to which the usage of this System saves time and hassle is extraordinary. On an individual level, the effect has a great positive outcome. Collaboratively, it is sensational. As more people use the Online Food Ordering System, it would mean that a larger portion of the population would be using a digitalized system of getting food from anywhere and anytime. Large scale use of a digitalized system can be considered a development in the general social status to some extent.

The Online Food Ordering System has some effect on the environment as well. Overcrowded places are a common scenario in our country. More people having their food from their home will prevent people from public gathering which is very important in this pandemic situation.

7.3 Addressing Ethics and Ethical Issues

The Online Food Ordering System does not hold any ethical hazard.

Chapter 8

Future Work & Conclusion

8.1 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 the home page. Provide Recipes of the Week/Day to Home Page
- Payment Options: Add different payment options such as Bkash, Nagad.
- 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

8.2 Conclusion

The system is developed in considering all issues related to all users which are included in this system. Wide range of people can use this if they know how to use the internet. Thus, implementation of Online Food Ordering system is done to help and solve one of the important problems of people. Based on the result of this research, it can be concluded: It helps customers in making orders easily; It gives information needed in making orders to customers. The Food website application made for restaurant and mess can help restaurant and mess in receiving orders and modifying its data and it is also made for admin so that it helps admin in controlling all the Food system.

With an online food ordering system, a restaurant and mess menu online can be set up and the customers can easily place orders. Also with a food menu online, tracking the orders is done easily, it maintains the customer's database and improves the food delivery service. The restaurants and mess can even customize online restaurant menus and upload images easily. Having a restaurant menu on the internet, potential customers can easily access it and place orders at their convenience.

I would like to thank Megatech Solution Ltd for giving me an opportunity to work as an intern to build an Online Food Ordering system. I have learned too much from there and gathered experience from working in challenging projects.

Bibliography

[1] Varsha Chavan, Priya Jadhav,Snehal Korade,Priyanka Teli, ”Implementing Customizable Online Food Ordering System Using Web Based Application”, International Journal of Innovative Science, Engineering Technology(IJISET) 2015.

[2] https://en.wikipedia.org/wiki/Online_food_ordering

[3] https://www.w3schools.com/whatis/whatis_html.asp. [Accessed: 10-Mar-2019].

[4] https://www.w3schools.com/whatis/whatis_css.asp. [Accessed: 10-Mar-2019].

[5] Khairunnisa K., Ayob J., Mohd. Helm A. Wahab, M. Erdi Ayob, M. Izwan Ayob, M. Afif Ayob, ”The Application of Wireless Food Ordering System” MASAM Journal of Computing 2009.