VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI – 590018, Karnataka

INTERNSHIP REPORT

ON

"Restaurant Website"

**BACHELOR OF ENGINEERING IN
ELECTRONICS AND COMMMUNICATION**

Submited by

NAME: CHETHAN. M

USN:4SM20EC001

Conducted at
Varcons Technologies Pvt Ltd

S J M INSTITUTE OF TECHNOLOGY

Department of Electronics & communication

**Recognised by AICTE, New Delhi & Affiliated to Visvesvaraya Technological
University, Belgavi
NH-4 Bypass, P.B No:73, Chitradurga 577502**

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NH-4 Bypass, P.B No:73, Chitradurga 577502

CERTIFICATE

This is to certify that the Internship titled **"Restaurant Website"** carried out by **Mr. CHETHAN M,** a bonafide student of S J M Institute of Technology, in partial fulfillment for the award of **Bachelor of Engineering**, in **ELECTRONICS AND COMMMUNICATION** under Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect

of Internship

Signature of Guide   **Signature of HOD**   **Signature of Principal**

External Viva:

Name of the Examiner   Signature with Date

1)_____

  _____

2)_____

  _____

D E C L A R A T I O N

I, **CHETHAN M**, final year student of ELECTRONICS AND COMMMUNICATION ,
S J M INSTITUTE OF TECHNOLOGY NH-4 Bypass, Chitradurga-577502,
declare that the Internship has been successfully completed, in **Varcons
Technologies Pvt Ltd**. This report is submitted in partial fulfillment of the
requirements for award of Bachelor Degree in Electronics & communication,
during the academic year 2022-2023.

Date :20-09-2023   :

Place :Chitradurga

USN : 4SM20EC001

NAME : CHETHAN. M

OFFER LETTER PROVIDED BY THE COMPANY

INTERNSHIP OFFER LETTER

Date: 11th August, 2023

Name: **Chethan M**
USN: **4SM20EC001**
Placement ID: **1408AUGB3664**

Dear Student,

We would like to congratulate you on being selected for the **Full Stack Web Devlopment** Internship position with **Varcons Technologies**, effective Start Date **11th August, 2023**, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Devlopment** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!.

Sincerely,

Spoorthi H C
Director
VARCONS TECHNOLOGIES
213, 2st Floor, 18 M G Road, Ulsoor,
Bangalore-560001

A C K N O W L E D G E M E N T

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We express our sincere thanks to our Principal, for providing us adequate facilities to undertake this Internship.

We would like to thank our Head of Dept – branch code, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank our (Lab assistant name) Software Services for guiding us during the period of internship.

We express our deep and profound gratitude to our guide, Guide name, Assistant/Associate Prof, for her keen interest and encouragement at every step in completing the Internship.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, forhelping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

NAME: CHETHAN M
USN: 4SM20EC001

ABSTRACT

The Online Restaurant Management System provides convenience for the customers. It overcomes the disadvantages of the traditional queuing system. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform. The user's details are noted electronically. This System set up menu online and the customers easily places the order with a simple mouse click. By using the food menu online anyone can easily track the orders, maintain customer's database and improve food delivery service. This system allows the user to select the desired food items from the displayed menu. The user orders the food items. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user.

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CHAPTER 1

COMPANY PROFILE

1. <u>COMPANY PROFILE</u>

A Brief History of Company Name

Company Name, was incorporated with a goal "To provide high quality and optimal Technological Solutions to business requirements of our clients". Every business is a different and has a unique business model and so are the technological requirements. They understand this and hence the solutions provided to these requirements are different as well. They focus on clients requirements and provide them with tailor made technological solutions. They also understand that Reach of their Product to its targeted market or the automation of the existing process into e-client and simple process are the key features that our clients desire from Technological Solution they are looking for and these are the features that we focus on while designing the solutions for their clients.

Company Name is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Sarvamoola Software Services. specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements.

Company Name, strive to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Varcons Technologies work with their clients and help them to defiine their exact solution requirement. Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber consultants.

They believe that Technology when used properly can help any business to scale and achieve new heights of success. It helps Improve its efficiency, profitability, reliability; to put it in one sentence " Technology helps you to Delight your Customers" and that is what we want to achieve.

CHAPTER 2

ABOUT THE COMPANY

2. <u>ABOUT THE COMPANY</u>

Company Name is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Varcons Technologies specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements. The organization where they have a right mix of professionals as a stakeholders to help us serve our clients with best of our capability and with at par industry standards. They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution. Motto of our organization is to "Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well". Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, We strive hard to achieve it.

Products of Company

Android Apps

It is the process by which new applications are created for devices running the Android operating system. Applications are usually developed in Java (and/or Kotlin; or other such option) programming language using the Android software development kit (SDK), but other development environments are also available, some such as Kotlin support the exact same Android APIs (and bytecode), while others such as Go have restricted API access.

The Android software development kit includes a comprehensive set of development tools. These include a debugger, libraries, a handset emulator based on QEMU, documentation, sample code, and zutorials. Currently supported development platforms include computers running Linux (any modern desktop Linux distribution), Mac OS X 10.5.8 or later, and Windows 7 or later. As of March 2015, the SDK is not available on Android itself, but softwaredevelopment is possible by using specialized Android applications.

Web Application

It is a client–server computer program in which the client (including the user interface and client- side logic) runs in a web browser. Common web applications include web mail, online

retail sales, online auctions, wikis, instant messaging services and many other functions. web applications use web documents written in a standard format such as HTML and JavaScript,which are supported by a variety of web browsers. Web applications can be considered as a specifific variant of client–server software where the client software is downloaded to the client machine when visiting the relevant web page, using standard procedures such as HTTP. The Client web software updates may happen each time the web page is visited. During the session, the web browser interprets and displays the pages, and acts as the universal client for any web application. The use of web application frameworks can often reduce the number of errors in a program, both by making the code simpler, and by allowing one team to concentrate on the framework while another focuses on a specifified use case. In applications which are exposed to constant hacking attempts on the Internet, security-related problems can be caused by errors in the program.

Frameworks can also promote the use of best practices such as GET after POST. There are some who view a web application as a two-tier architecture. This can be a "smart" client that performs all the work and queries a "dumb" server, or a "dumb" client that relies on a "smart" server. The client would handle the presentation tier, the server would have the database (storage tier), and the business logic (application tier) would be on one of them or on both. While this increases the scalability of the applications and separates the display and the database, it still doesn"t allow for true specialization of layers, so most applications will outgrow this model. An emerging strategy for application software companies is to provide web access to software previously distributed as local applications. Depending on the type of application, it may require the development of an entirely different browser-based interface, or merely adapting an existing application to use different presentation technology. These programs allow the user to pay a monthly or yearly fee for use of a software application without having to install it on a local hard drive. A company which follows this strategy is known as an application service provider (ASP), and ASPs are currently receiving much attention in the software industry.

Security breaches on these kinds of applications are a major concern because it can involve both enterprise information and private customer data. Protecting these assets is an important part of any web application and there are some key operational areas that must be included in the development process. This includes processes for authentication, authorization, asset handling, input, and logging and auditing. Building security into the applications from the beginning can be more effective and less disruptive in the long run.

Web design

It is encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and

search engine optimization. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating mark up then they are also expected to be up to date with web accessibility guidelines. Web design partially overlaps web engineering in the broader scope of web development.

Departments and services offered

Company Name plays an essential role as an institute, the level of education, development of student's skills are based on their trainers. If you do not have a good mentor then you may lag in many things from others and that is why we at Compsoft Technologies gives you the facility of skilled employees so that you do not feel unsecured about the academics. Personality development and academic status are some of those things which lie on mentor's hands. If you are trained well then you can do well in your future and knowing its importance of Compsoft Technologies always tries to give you the best.

They have a great team of skilled mentors who are always ready to direct their trainees in the best possible way they can and to ensure the skills of mentors we held many skill development programs as well so that each and every mentor can develop their own skills with the demands of the companies so that they can prepare a complete packaged trainee.

Services provided by the Company

• Core Java and Advanced Java

• Web services and development

• Dot Net Framework

• Python

• Selenium Testing

• Conference / Event Management Service

• Academic Project Guidance

• On The Job Training

• Software Training

CHAPTER 3

INTRODUCTION

3. <u>INTRODUCTION</u>

This manuscript is proposing about all the features and dealings to develop the system. Especially it is containing details about objectives, possibility, plan replica, primary and functional requirements, database model and as final point coverage and analyzing the mechanisms. Once analyzing the mechanisms of the task that would be performed, the following point is to consider the problem and understand is framework. Online Restaurant Management System is a project which 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. Those helps the customer to order their food themselves which is known as the customer self ordering system. The customer self-ordering system 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. Admin is the most powerful user of the system

Online restaurant is a process of ordering food from a local restaurant or food cooperative through a web page. Much like ordering consumer goods online, many of these allow customers to keep accounts with them in order to make frequent ordering convenient. A customer will search for a favourite restaurant, usually filtered via type of cuisine and choose from available items, and choose delivery or pick-up. Payment can be amongst others either by credit card or cash, with the restaurant returning a percentage to the online food company. The online restaurant management 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 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 2internet? This then leads to the discussion of the economic consequences of digital cash. 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. The greatest advantage of this system is its FLEXIBILITY

This project Online restaurant aim to be developed and brought to the market for maximum use and to create an avenue through the web where users can log on to our server and make a selection of whatever goods or food they like and subsequently pay via the internet. The following are the objectives this would bring:

1. The home page of this web interfile provides an avenue where customers will be able to gather more and reliable information about what the fast food industry really does.

2. The products and services offered would provide the customers with all the different categories of available products that they can choose and select from.

3. This will provide a user friendly environment between the customer and employee thus increasing the efficiency of the food ordering system.

4. There will also be an online purchase form with which valued customers will be using to get in touch with any of their request whenever the need arises.

5. It will also help for easy retrieval of orders made by the customers.

In this project, a fast food company is designed to enable customers order for food and get it delivered accordingly and also to reduce the long queues of customers at the counter ordering for food and to reduce the work lord on the employees. The following things are among other things that are discussed and what the website would handle:

1. About the fast food company

2. The fast food and the services offered there

3. Online purchase

4. Type of food provided.

CHAPTER 4

REQUIREMENT GATHERING/ANALYSIS

Requirement Analysis

Requirements analysis in systems engineering and software engineering, encompasses those tasks that go into determining the needs or conditions to meet for a new or altered product or project, taking account of the possibly conflicting requirements of the
various stakeholders, analysing, documenting, validating and managing software or system requirements.
Requirements analysis is critical to the success or failure of a systems or software project.The requirements should be documented, actionable, measurable, testable, traceable, related to identified business needs or opportunities, and defined to a level of detail sufficient for system design.

System Requirement

Our system can be used in windows XP, windows 7, and windows 8 with 32 bit, and 64 bit operating system and also supported for other platform such as Linux OS X.
- For Windows XP based computers, a 486 / 66 MHz or higher processor with 8 MB.
- For Windows 7 and Windows 8 based computers, higher processor with 2 GB ram.

Software and Hardware Requirements

Software Requirements:
- Web server software: Apache Tomcat, Wamp.
- Server side scripting tool: PHP-5.6.
- Database tools: MYSQL DBMS.
- Compatible operating system: Windows, Mac.
- Front end design tool: Html5, CSS3, Java script, Word press, J Query.
- Software tools: Wordpress CMS, Revolution Slider, Newsletter subscription, Wocommerce, Social sharing.

Hardware Requirements:
- Hardware recommend by all the software needed.
- RAM: 256MB or more
- Hard Drive: 10 GB or more
- Communication hardware to serve client request

User Requirements

To deliver the best service to the users we tried to find out the users necessities which are below:

Administrator Aspect:
- Monitoring the whole system from admin panel.
- Taking back up of the database.
- Creating, deleting and modifying the records.
- Add users for the admin panel.
- Add customers and other staff.
- Keeping the customer's record like their details.
- Organizing their member registration system.
- Approve the notice to post.
- Monitoring the transaction system.

Customer Aspect:
- Signing in and signing up to the system.
- Changing their password.

Functional Requirements

In Software engineering and systems engineering, a functional requirement defines a function of a system or its component. A function is described as a set of inputs, the behaviour, and outputs.

Functional requirements may be calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish.[1] Behavioural requirements describing all the cases where the system uses the functional requirements are captured in use cases. Functional requirements are supported by non-functional requirements (also known as quality requirements), which impose constraints on the design or implementation (such as performance requirements, security, or reliability). Generally, functional requirements are expressed in the form "system must do <requirement>", while non-functional requirements are "system shall be <requirement>". The plan for implementing functional requirements is detailed in the system design. The plan for implementing non-functional requirements is detailed in the system architecture.

As defined in requirements engineering, functional requirements specify particular results of a system. This should be contrasted with non-functional requirements which specify overall characteristics such as cost and reliability. Functional requirements drive the application architecture of a system, while non-functional requirements drive the technical architecture of a system .

Non-functional Requirements

In systems engineering and requirements engineering, a non-functional requirement is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviours. They are contrasted with functional requirements that define specific behaviour or functions. The plan for implementing functional requirements is detailed in the system design. The plan for implementing non-functional requirements is detailed in the system architecture, because they are usually Architecturally Significant Requirements.

Business Requirements

Business requirements in the context of software engineering or the software development life cycle, is about eliciting and documenting business requirements of business users such as customers, employees, and vendors early in the development cycle of a system to guide the design of the future system. Business requirements are often captured by business analysts, who analyse business activities and processes, and often study As-is process to define a target To-be process.

Business requirements often include

- Business context, scope, and background, including reasons for change
- Key business stakeholders that have requirements
- Success factors for a future/target state
- Constraints imposed by the business or other systems
- Business process models and analysis, often using flowchart notations to depict either 'as is' and 'to-be' business processes
- Logical data model and data dictionary references
- Glossaries of business terms and local jargon
- Data flow diagrams to illustrate how data flows through the information systems (different from flowcharts depicting algorithmic flow of business activities) .
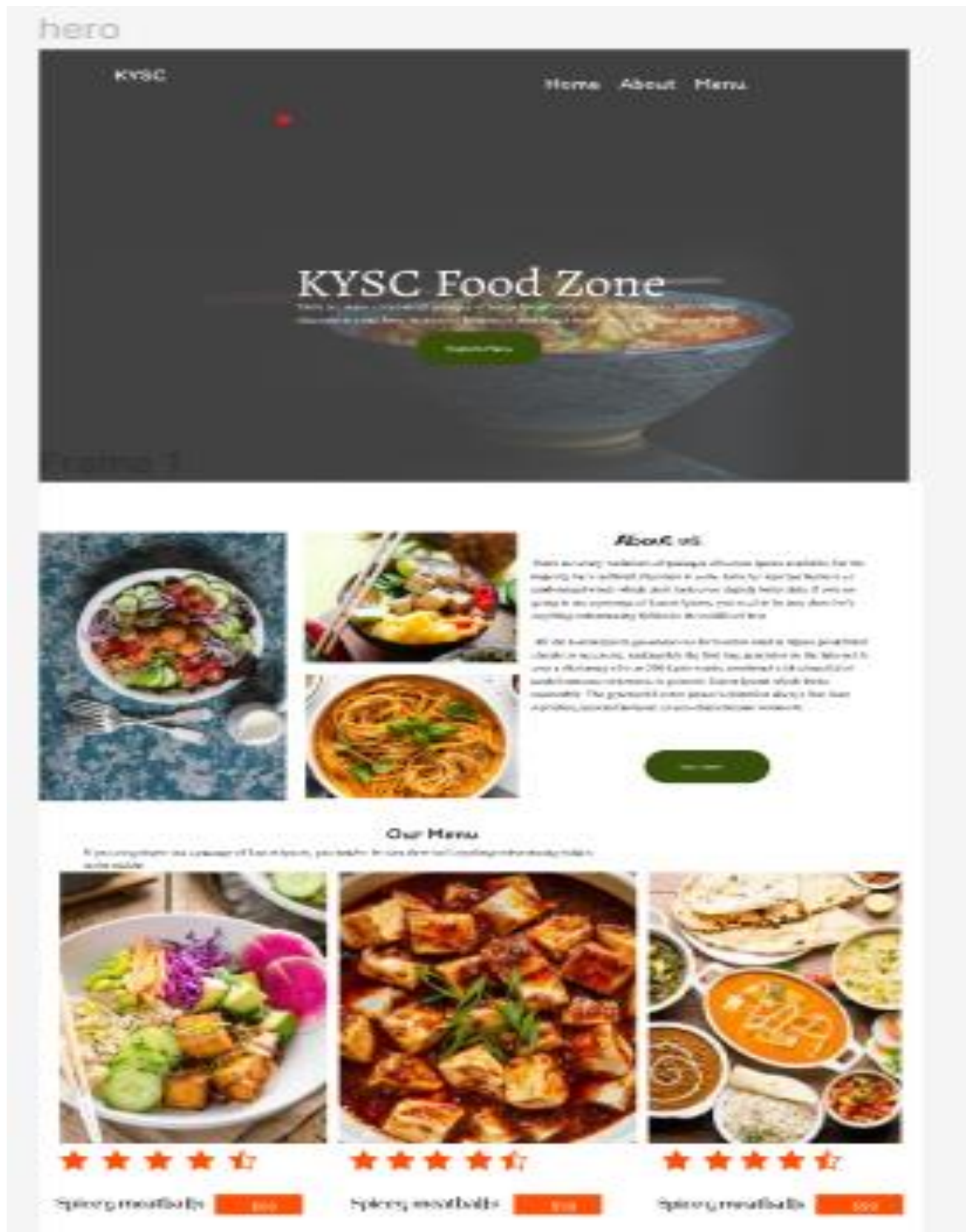
Data and Category Requirements

There are dissimilar classes of users namely admin, customer and other staff. Depending upon the category of users the access rights are obvious. It means if the user is an administrator then he/she can be able to adjust the data delete, add etc. All other users expect the restaurant only have the rights to save the info about database. The database stores the detail of customer's proper time. Admin should be able to update restaurant records.

CHAPTER 5

DESIGN ANALYSIS

6. <u>HOME PAGE</u>

CHAPTER 6

CONCLUSION

CONCLUSION

The Online Restaurant Management System (ORMS) is for computerizing the working in a restaurant. It is a great improvement over the manual system. The computerization of the system has speed up the process. In the current system, the front office managinig is very slow. The restaurant managing system was thoroughly checked and tested with dummy data and thus is found to be very reliable. The software takes care of all the requirements of an average restaurant and is capable to provide easy and effective storage of information related to customers that come up to the restaurant. It provides the home delivery facilities to the customer. It also billing facility such as cash on or pay with bkash. The system is also provides location flexibilities in Dhaka city.

Limitations
For upcoming improvement, there are some proposals to advance our project abilities.
- There is no email verification system.
- There is no online bill payment system.
- There is no security protection such as SSL, Sitelock.
- SMS alert system is not available right now.
- There is no online secured payment getting system.

Future Plans
- We will add more features to improve our project.
- There will be email verification system.
- We will add SSL security system.
- New product update newsletter will be added.
- SMS alert system is easier for the customer.
- We also work on online payment gateway integration.
- Additionally, it is just a beginning. Supplementary the system may be used in various other types of reviewing p

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