

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA, BELAGAVI – 590018



Web Technology and its Application(18CS63) Mini Project Report on **FOOD CART**

Bachelor of Engineering
in
Computer Science and Engineering

Submitted by
Samhitha Holla 1BG20CS087
Parth Kumar Tiwari 1BG20CS068

VI SEMESTER
Under the Guidance of

Prof. MANJUSHREE K
Assistant Professor,
Department of CSE
BNMIT, Bengaluru



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ABSTRACT

Food Order is a Web Development project created using HTML, CSS, JavaScript and PHP. It features a restaurant's webpage with all food options namely vegetarian, non-vegetarian, milkshakes/juices, cakes etc. All the pages in the website are accessible and in each page the user gets to add the food item to the cart. The user gets to see the cart items along with the total price of the order. The user will be able to delete item from cart, increase or decrease the quantity of item. On clicking 'place order' button the content in the cart gets placed in database. This project is styled using CSS and the structure is created using HTML. The responsive features of the project have been developed using JavaScript as the client-side scripting language and PHP as server-side scripting language. Apache and MySQL is enabled in XAAMP to view the storing of cart data in database.

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SAMHITHA HOLLA (1BG20CS087)

PARTH KUMAR TIWARI (1BG20CS068)

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Chapter 1

INTRODUCTION

1.1 Overview of Web Development

Web development refers to the process of creating and maintaining websites or web applications. It involves a combination of programming, designing, and deploying websites that are functional, visually appealing, and user-friendly. Web development encompasses several key components such as Front-End development, Back-End development, Full-stack development, Responsive web design, web security etc.

Web development is a dynamic field that requires continuous learning and staying up to date with emerging technologies and trends. Web developers collaborate with designers, content creators, and clients to bring their vision to life Problem statement

1.2 Problem Statement

The aim is to design a website using HTML, style it using CSS and provide functionality using JavaScript. This website is named Delicious Delicacy which provides various food items under vegetarian, non-vegetarian etc and gives an option to the user to add his favorite food item to cart and place his order. The person's order will be stored in the database on the server side.

1.3 Web Development Need & Importance

Web Development is essential in today's digital age for several reasons. Here are some of the key needs and importance of web development

- **Online Presence:** Having a website is crucial for businesses, organizations, and individuals to establish their online presence. A well-designed and functional website serves as a virtual storefront, providing information about products, services, or content to a global audience. It allows businesses to reach potential customers, showcase their offerings, and create brand awareness.
- **Accessibility and Convenience:** The internet has become the primary source of information for many people. A website provides accessibility and convenience for users to access information, make purchases, or interact with services from anywhere

and at any time. Web development ensures that websites are user-friendly, responsive, and compatible with various devices and browsers.

- **E-commerce and Online Transactions:** Web development plays a crucial role in facilitating e-commerce and online transactions. Websites with secure payment gateways enable businesses to sell products or services online, accept payments, and provide a seamless shopping experience to customers. Web developers implement robust and reliable e-commerce platforms to support online sales.
- **Communication and Interaction:** Websites serve as communication tools to connect businesses with their customers, clients, or audience. Web development enables the integration of contact forms, chatbots, messaging systems, or social media links, allowing users to interact, ask questions, or provide feedback. This enhances customer engagement and supports effective communication channels
- **Customized Solutions:** Web development allows for the creation of tailored solutions to meet specific business or individual needs. Whether it's developing a content management system, building a web application, or integrating third-party services, web development enables customization and scalability according to unique requirements.
- **Competitive Advantage:** In a competitive market, having a well-designed and functional website gives businesses a competitive edge. A visually appealing and user-friendly website can attract and retain customers, improve brand perception, and differentiate a business from its competitors. Web development ensures that websites are optimized for search engines, providing visibility and increasing the chances of reaching a wider audience.
- **Continuous Improvement and Adaptability:** Web development is an ongoing process that allows websites to evolve, adapt to changing trends, and incorporate new features or technologies. Regular updates, maintenance, and improvements ensure that websites remain secure, performant, and relevant in a fast-paced digital landscape.

Overall, web development is vital for establishing a strong online presence, facilitating communication and transactions, enhancing user experience, and staying competitive in the digital realm. It empowers businesses and individuals to leverage the vast potential of the internet and reach a global audience effectively.

Chapter 2

WEB DEVELOPMENT

2.1 History of Web Development

The history of web development traces back to the early 1990s when the World Wide Web was invented by Tim Berners-Lee. During this time, websites were primarily text-based and were created using simple HTML (Hypertext Markup Language) coding. However, as the internet gained popularity, the need for more dynamic and interactive websites arose.

In the mid-1990s, the introduction of JavaScript revolutionized web development by enabling developers to create client-side interactivity. This allowed for the inclusion of animations, form validation, and other interactive elements on web pages. Alongside JavaScript, the emergence of Cascading Style Sheets (CSS) provided a way to separate the design and layout of websites from the underlying HTML structure, leading to more visually appealing and flexible web pages.

As the demand for more complex websites grew, server-side scripting languages like PHP, ASP (Active Server Pages), and Java Server Pages (JSP) gained prominence. These languages allowed for dynamic content generation and database integration, enabling the development of e-commerce platforms, content management systems, and other web applications.

2.2 HTML

HTML (Hyper Text Markup Language) is the foundational markup language used for creating web pages. It provides a structured and standardized way to define the elements and content within a webpage. With HTML, developers can create headings, paragraphs, lists, images, links, forms, tables, and more, organizing information in a logical and hierarchical manner.

HTML uses a system of tags to define and structure the content. Tags are enclosed in angle brackets (< >), and each tag serves a specific purpose. For example, the <h1> tag is used to define the main heading of a page, while <p> tags indicate paragraphs of text.

Over the years, HTML has evolved, and the latest version, HTML5, introduced new elements and features to support modern web development practices. These include native video and audio support, canvas for drawing graphics, semantic tags for improved accessibility and search engine optimization, and APIs for geolocation, offline storage, and more.

2.2 CSS

CSS (Cascading Style Sheets) is a styling language used in web development to control the presentation and appearance of HTML elements within a webpage. With CSS, developers can define the colors, fonts, layouts, spacing, and other visual properties of web content, making it visually appealing and consistent across different web browsers and devices.

CSS works by selecting HTML elements using selectors and applying styles to them. Styles can be specified directly in the HTML file using inline styles or defined in a separate CSS file and linked to the HTML file. CSS rules consist of a selector that targets one or more elements and a set of declarations that define the desired styles.

CSS provides a wide range of styling capabilities, including setting colors, defining fonts, adjusting sizes and dimensions, positioning elements, creating responsive layouts, applying transitions and animations, and more. It also supports the concept of cascading, where styles can be inherited from parent elements or overridden by more specific styles.

Overall, CSS is a powerful tool that empowers web developers to control the visual presentation of web content. It plays a crucial role in creating attractive and user-friendly websites, ensuring consistency, and enhancing the overall user experience.

2.3 JAVA SCRIPT

JavaScript is a versatile programming language primarily used for building dynamic and interactive web applications. It is a client-side scripting language, meaning it runs directly in the user's web browser. JavaScript enables developers to add functionality, interactivity, and dynamic behaviour to web pages.

With JavaScript, developers can handle user interactions such as form validation, button clicks, and mouse events. It allows for the manipulation and modification of HTML elements, updating content on the fly, and dynamically loading data from

servers without refreshing the entire page. JavaScript is also used to create animations, perform calculations, and interact with APIs and third-party services.

Overall, JavaScript empowers developers to create rich, interactive, and responsive web applications. It enhances user experiences, enables real-time updates, and provides the necessary tools to build modern, feature-rich web solutions. With its continuous evolution and growing capabilities, JavaScript continues to be an integral part of the web development landscape.

2.4 PHP

PHP (Hypertext Preprocessor) is a popular server-side scripting language designed for web development. It is widely used for building dynamic and interactive web applications. PHP is embedded within HTML code and executed on the server before the resulting HTML is sent to the client's browser.

PHP provides a vast array of functionalities and features that make it suitable for a wide range of web development tasks. It can handle form data, interact with databases, process and manipulate files, perform calculations, generate dynamic content, and much more. It has extensive support for various databases, including MySQL, PostgreSQL, and Oracle, allowing developers to create robust and data-driven web applications.

PHP's versatility extends beyond web development. It can also be used for command-line scripting and server-side scripting tasks. Additionally, PHP integrates seamlessly with HTML and other web technologies, allowing developers to mix PHP code with HTML and create dynamic web pages.

Overall, PHP is a powerful server-side scripting language that enables developers to create dynamic and feature-rich web applications. Its simplicity, versatility, and extensive community support have contributed to its widespread adoption and continued relevance in the web development industry.

Chapter 3

SYSTEM REQUIREMENTS

3.1 Software Requirements

Software requirements deal with defining software resource requirements and prerequisites that need to be installed on a computer to provide optimal functioning of an application.

The following are the software requirements for the application:

- Operating System: Any modern operating system that supports web browsers, such as Windows 10, macOS, or Linux.
- Web Browser: Any modern web browser with JavaScript enabled, such as Google Chrome, Mozilla Firefox, or Microsoft Edge.

3.2 Hardware Requirements

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware.

- CPU: Intel or AMD processor
- Cores: Dual-Core (Quad-Core recommended)
- RAM: minimum 4GB (8GB recommended)
- Graphics: Any graphics card that supports modern web browser
- Secondary Storage: Sufficient storage space to store the web page files and any associated assets, such as images and stylesheets.
- Display Resolution: Any resolution that supports the web browser, with a minimum of 1366x768.

Chapter 4

IMPLEMENTATION

4.1 Implementation

The project has been implemented on Microsoft Windows OS using HTML and CSS in the front-end and PHP and MySQL in the back-end.

Database design is an essential part of this project. Our project contains the following tables and their attributes.

4.2 HTML Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE-edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Delicious Delicacies</title>
<link rel="stylesheet" href="style.css" />
<link
rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-
awesome.min.css"
/>
<style>
.home {
min-height: 100vh;
background: linear-gradient(rgba(0,0,0,0.6),rgba(0,0,0,0.6)),url("Images/table.jpg");
background-size: cover;
background-repeat: no-repeat;
}
</style>
</head>
<body>
```

```
<section class="home">
<nav>
<div class="logo">
<h1>Delicious <span> Delicacies</span></h1>
</div>
<ul>
<li><a href="#">Home</a></li>
<li><a href="veg-index.html">Veg</a></li>
<li><a href="nonveg-index.html">Non-Veg</a></li>
<li><a href="icecream-index.html">Ice-Cream</a></li>
<li><a href="shakeJuice-index.html">MilkShakes/Juices</a></li>
<li><a href="cake-index.html">Cakes</a></li>
<li><a href="contact.html">Contact</a></li>
</ul>
<div class="social">
<a href="contact.html"><i class="fa fa-instagram"></i></a>
<a href="contact.html"><i class="fa fa-facebook"></i></a>
<a href="contact.html"><i class="fa fa-twitter"></i></a>
</div>
</nav>
<div class="banner">
<h2>Welcome to <span>Delicious Delicacies</span></h2>
<h3>Authenticity at it's finest</h3>
</div>
<div class="special">
<h1>Today's Special</h1>
<div class="special-box">

<h2>Masala Dosa</h2>
<h3>Rs. 120</h3>
</div>
<div class="special-box">

<h2>Milkshake</h2>
<h3>Rs. 80</h3>

```

```
</div>

<div class="special-box">

<h2>Aloo paratha</h2>
<h3>Rs. 100</h3>
</div>
</div>
</section>
</body>
</html>
```

4.3 CSS Code

style.css

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;600;70
0&family=Roboto:wght@300&display=swap');

@import
url('https://fonts.googleapis.com/css2?family=Dancing+Script:wght@400;500;600;70
0&family=Poppins:wght@100;200;300;400;600;700&family=Roboto:wght@300&dis
play=swap');

*{
margin: 0;
padding: 0;
box-sizing: border-box;
font-family: 'Poppins', sans-serif;
}

nav{
display: flex;
justify-content: space-between;
align-items: center;
background-color: rgba(168, 130, 61, 0.6);
color: #fff;
padding: 5px 100px;
```

```
}

nav .logo h1{

text-transform: uppercase;
color: rgb(51, 34, 2);

}

nav .logo h1 span{



color: rgb(225, 222, 216);
font-family: 'Dancing Script', cursive;
font-size: 30px;
text-transform: lowercase;

}

nav ul{

display: flex;
}

nav ul li{

list-style: none;
padding: 15px;
}

nav ul li a{

text-decoration: none;
color: #fff;
font-size: 15px;
text-transform: uppercase;
transition: 0.4s ease;
}

nav ul li a:hover{

color: rgb(227, 116, 12) ;

}

nav .social{

display: flex;
justify-content: center;
align-items: center;
```

```
gap: 10px;  
}  
  
nav .social a{  
background:transparent;  
border: 2px solid #CDA45E;  
height: 30px;  
width: 30px;  
display: block;  
display: flex;  
justify-content: center;  
align-items: center;  
}  
  
nav .social a:hover{  
color: #292922;  
background:#CDA45E;  
}  
  
nav .social a:hover i{  
background: #CDA45E;  
}  
  
nav .socail a i{  
font-size: 18px;  
color: #292922;  
}  
  
.banner {  
display: flex;  
flex-direction: column;  
justify-content: center;  
align-items: center;  
min-height: 80vh;  
margin-top: -50px;  
}  
  
.banner h2{  
color: #fff;  
text-transform: uppercase;  
letter-spacing: 5px;
```

```
border: 2px solid #CDA45E;  
padding: 20px;  
}  
.banner h2 span{  
color: #CDA45E;  
  
}  
.banner h3{  
color: #fff;  
padding: 20px;  
font-weight: 500;  
font-size: 40px;  
font-family:'Dancing Script', cursive ;  
}  
.special{  
display: flex;  
justify-content: center;  
align-items: center;  
gap:30px ;  
}  
.special h1{  
background-color: #CDA45E;  
color: #292922;  
padding: 10px;  
font-size: 12px;  
word-spacing: 5px;  
text-transform: uppercase;  
position: absolute;  
left: 560px;  
top: 360px;  
  
}  
.special .special-box{
```

```
height: 220px;  
width: 160px;  
background: rgba(0,0,0,0.6);  
display: flex;  
flex-direction: column;  
justify-content: center;  
align-items: center;  
margin-top: -130px;  
border: 2px solid #CDA45E;  
border-top-right-radius: 100px ;  
border-top-left-radius: 100px;  
}  
.special-box img{  
height:100px ;  
width: 100px;  
border-radius: 50%;  
object-fit: cover;  
border: 5px solid #CDA45E;  
}  
.special-box h2{  
color: #fff;  
font-size: 18px;  
font-weight: 400;  
padding: 10px;  
}  
.special-box h3{  
color: #fff;  
font-size: 15px;  
font-weight: 300;  
padding: 5px;;  
}  
/*-----contact section-----*/  
.container{  
display: flex;
```

```
justify-content: center;
align-items: center;
height: 90vh;
gap: 20px ;
}

.panel{
height: 450px;
width: 500px;
padding: 10px;
}

.panel h3{
color: #CDA45E;
padding: 3px;

}

.address{
display: flex;
flex-wrap: wrap;
justify-content: center;
align-items: center;
gap: 10px;

}

.box{
height: 200px;
width: 230px;
border: 2px solid #CDA45E;
background-color: rgba(12,11,9,0.6);
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
color: #CDA45E;
overflow: hidden;
transition: 0.3s ease;
```

```
cursor: pointer;  
}  
.box i{  
font-size: 25px;  
padding: 10px;  
color: #fff;  
}  
.box-1 h3{  
font-size: 16px;  
text-transform: uppercase;  
}  
.box-1 h4{  
font-size: 14px;  
padding: 5px;  
}  
.box-2 i{  
font-size: 40px;  
}  
.box h3{  
font-size: 14px;  
padding-top: 10px;  
}  
.box:hover{  
transform: scale(0.9);  
}  
.contact{  
background-color: rgba(12,11,9,0.6);  
padding: 10px;  
border: 2px solid #CDA45E;  
display: flex;  
flex-direction: column;  
justify-content: center;  
align-items: center;  
height: 425px;
```

```
width: 420px;  
}  
.form-group{  
padding: 10px;  
}  
input{  
height: 30px;  
width: 300px;  
padding: 5px;  
font-size: 14px;  
background-color: #cda45e7c;  
color: #fff;  
border: none;  
outline: none;  
}  
textarea{  
background-color: #cda45e7c;  
border: none;  
resize: none;  
color: #fff;  
padding: 10px;  
outline: none;  
}  
.btn-send{  
padding: 8px 30px;  
background-color: transparent;  
border: 2px solid #CDA45E;  
outline: none;  
cursor: pointer;  
color: #CDA45E;  
translate: 0.4s ease;  
}  
.btn-send:hover{  
background-color: #CDA45E;
```

```
color: #292922;  
}  
.footer{  
position: absolute;  
height: 70px;  
bottom:0 ;  
width: 100%;  
background-color: rgba(12,11,9,0.6);  
border-top: 2px solid #CDA45E;  
text-align: center;  
color: #fff;  
}  
.footer h4{  
padding-top: 5px ;  
font-size: 12px;  
font-weight: 300;  
}  
.footer h5{  
padding: 5px ;  
font-size: 12px;  
font-weight: 300;  
}  
.footer i{  
padding: 0 3px;  
color: #CDA45E;  
}  
.footer .ncolor{  
color: #CDA45E;  
text-transform: uppercase;  
}  
.footer .fa-heart{  
color: pink;  
}
```

Chapter 5

RESULTS

- **Home Page:**

Figure 5.1 is the home page which the user first view upon their arrival to the site.



Figure:5.1 Home page

- **Vegetarian Page:**

Figure 5.2 allows the user to view and select vegetarian food present in the menu.

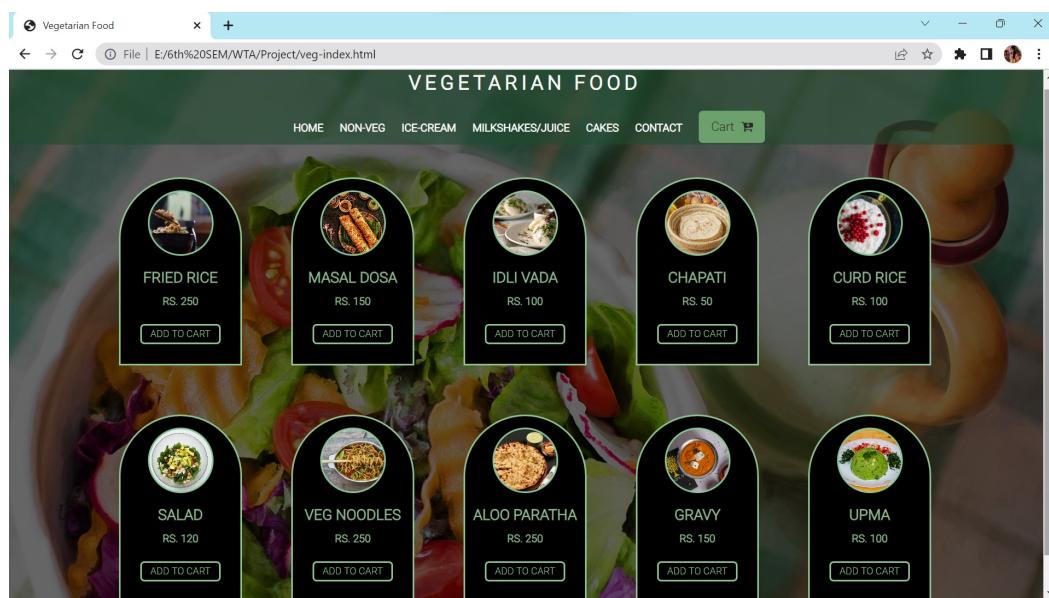


Figure:5.2 Vegetarian page

- **Non-Vegetarian page:**

Figure 5.3 allows the user to view and select non-vegetarian food present in the menu.

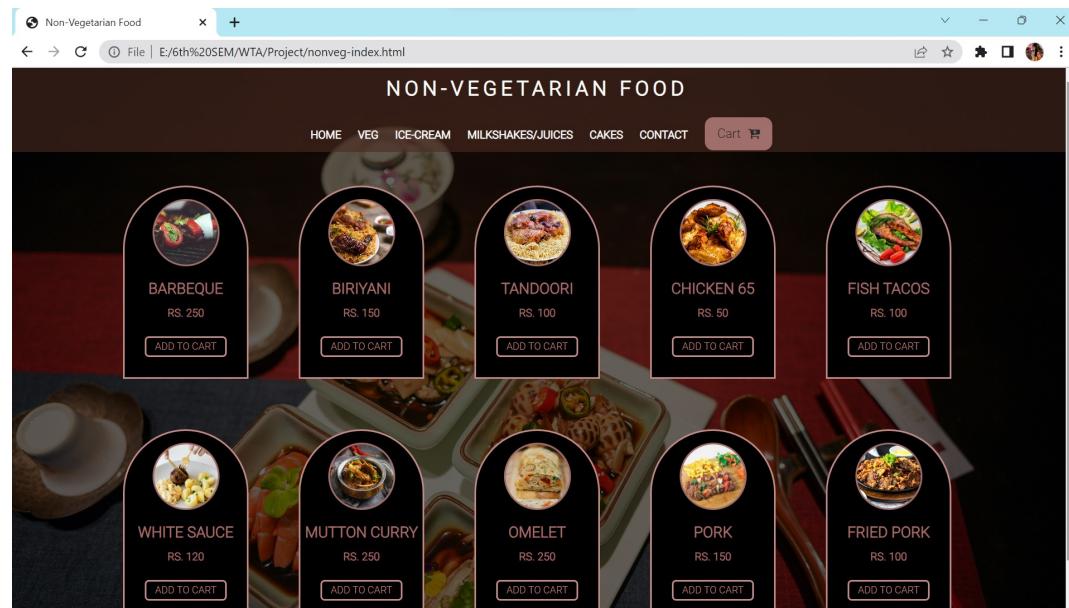


Figure:5.3 Non-Vegetarian Page

- **Ice Cream page:**

Figure 5.4 allows the user to view and select ice-creams present in the menu.

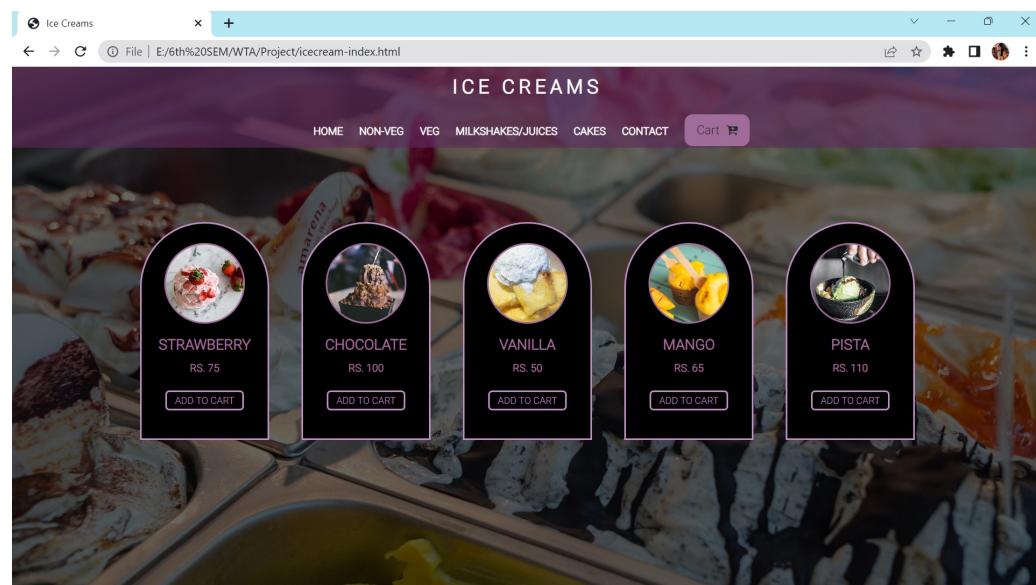


Figure:5.4 Ice Cream page

- **Milkshakes/Juice Page:**

Figure 5.5 allows the user to view and select ice-creams present in the menu.

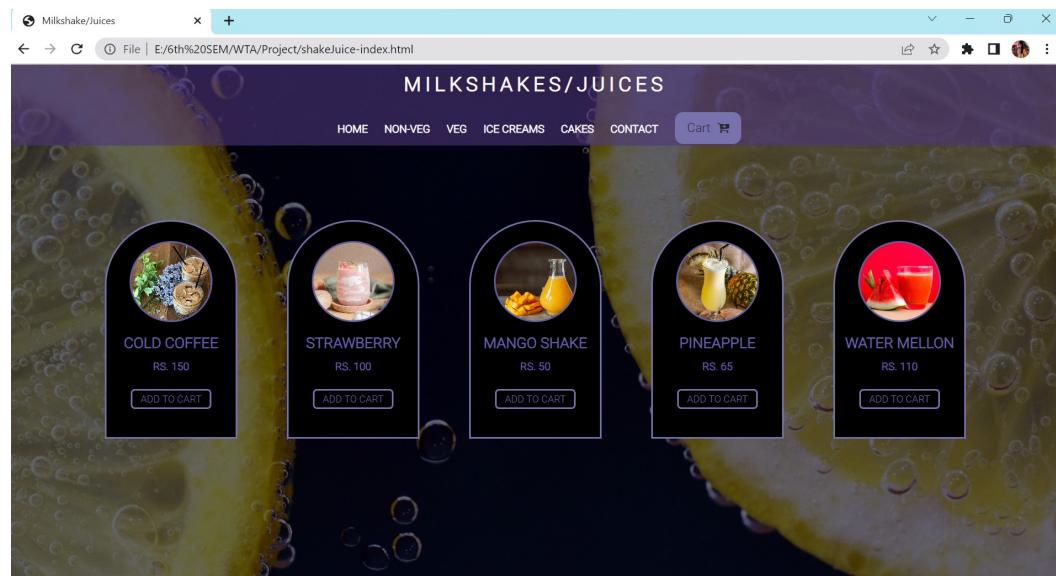


Figure:5.5 Milkshakes/Juice page

- **Cakes list:**

Figure 5.6 allows the user to view and select ice-creams present in the menu.

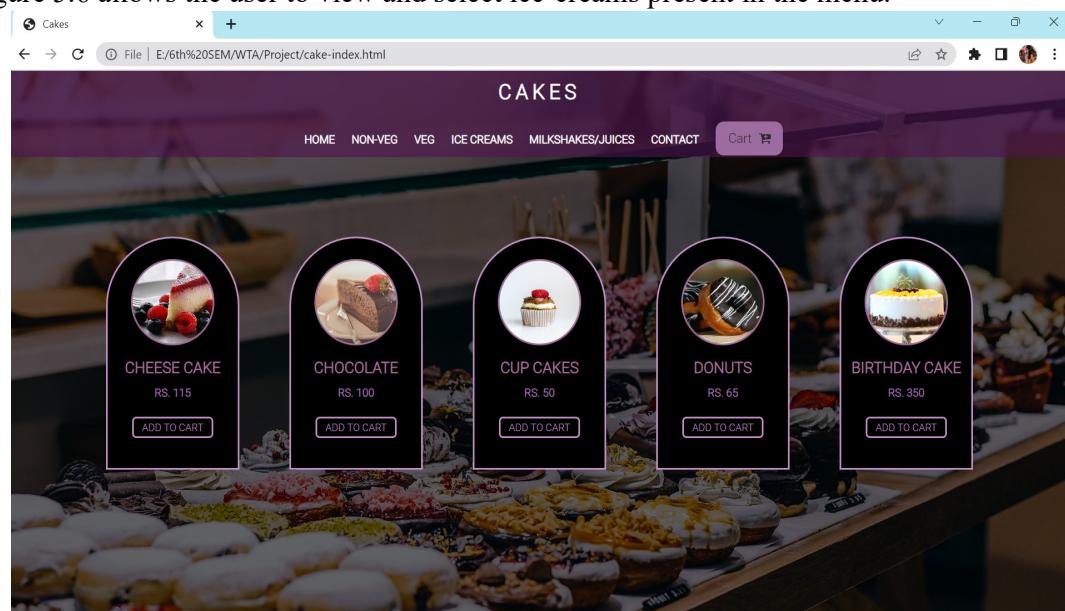


Figure:5.6 Cakes page

- **Contacts Page**

Figure 5.7 provides information like location of the restaurant, phone number, mail-id and website details. It provides a form which can be filled by the user

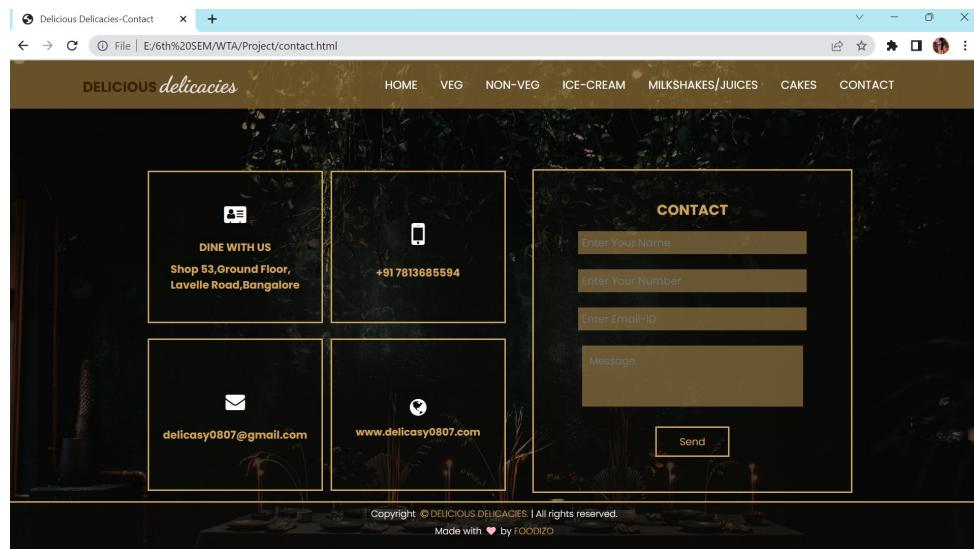


Figure:5.7 Contacts page

- **Functioning of cart**

This feature is made functional using the java script code. On clicking on the ‘cart button’ the food cart appears. On clicking ‘Add to cart’ button the selected item is added to the cart. Quantity of the added item can be incremented and decremented using the button.

As shown in Figure 5.8 the total amount of the cart is displayed at the bottom of the cart. On clicking the ‘place order’ button the content in the cart gets stored to the database. A PHP code is written to view the database content on the website.

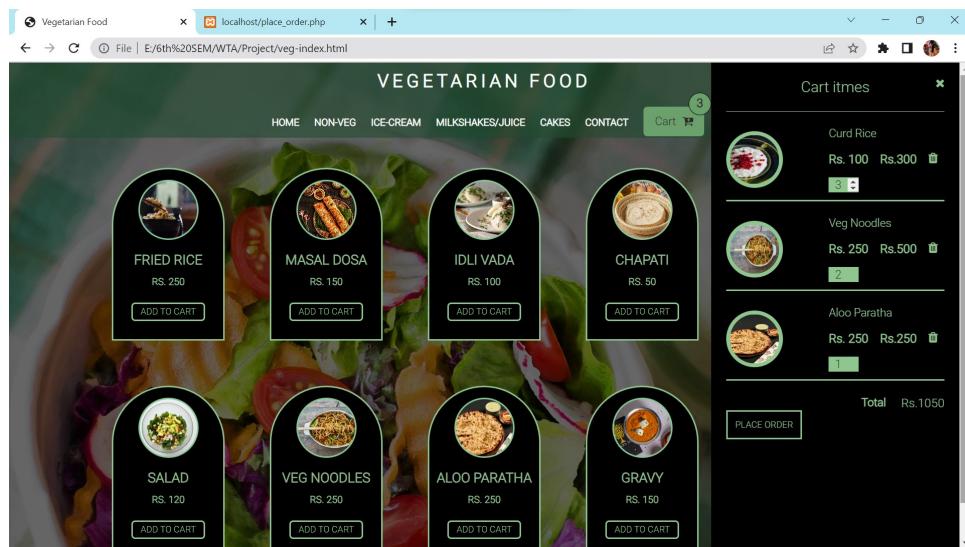


Figure:5.8 Functioning of cart

- **Database Connectivity**

Figure 5.9 shows the content of cart are stored in database which appear on the website.

Title	Price
Curd Rice	Rs. 100
Curd Rice	Rs. 100
Veg Noodles	Rs. 250
Curd Rice	Rs. 100
Veg Noodles	Rs. 250
Aloo Paratha	Rs. 250

Figure:5.9 Database Connectivity(a)

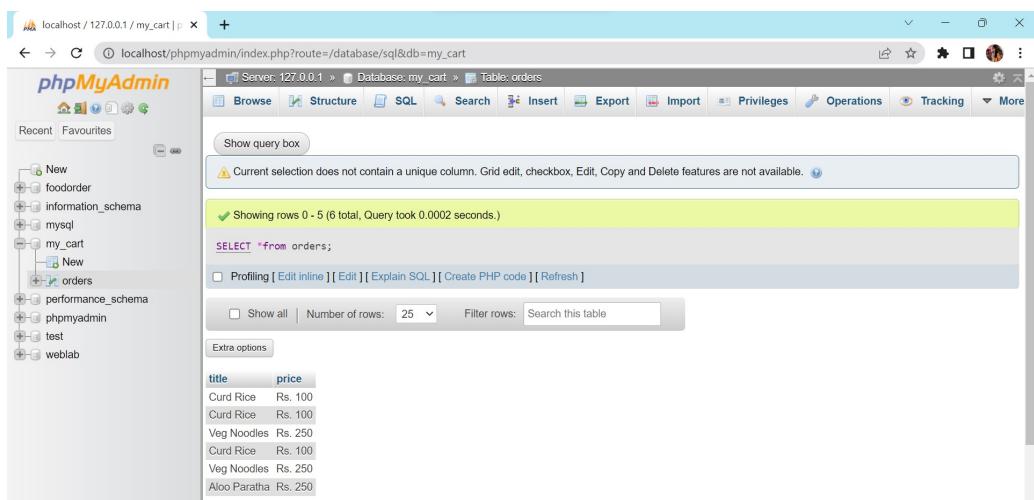


Figure:5.9 Database connectivity(b)

Chapter 6

CONCLUSION

The proposed Food Cart provides a user-friendly and helpful means of ordering food from anywhere at any time.

Thus, the site modifies the usual way of ordering and thus creates a new platform for the people to utilize the benefits offered.

This project not only reduces the efforts of the restaurant waiters to manage the order, bills generated for food but also increases the chances of customer satisfaction leading to increased profit.

This is also a more trustable and accurate way of handling data as there is a high risk of data loss or data corruption in keeping offline records, thus improving data redundancy.

Thus, we can say our project is a very creative way of ordering food

The project teaches us the essential skills like:

- Understanding HTML, CSS, JavaScript and PHP.
- Implement, analyze and evaluate the project developed for an application.
- Demonstrate the functioning of the website.

Chapter 7

REFERENCES

[1] Randy Connolly, Ricardo Hoar, "Fundamentals of Web Development",
1stEdition, Pearson Education India. (ISBN:978-9332575271)

[2] <https://www.youtube.com/watch?v=i7LHgaf777o&t=151s>