

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590018, Karnataka, India



An Internship Report On

“WEBSITE DESIGN FOR RESTAURANT APPLICATION”

Submitted in partial fulfillment for the award of the Degree of

BACHELOR OF ENGINEERING

In

INFORMATION SCIENCE & ENGINEERING

Submitted by:

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Internship Carried out by

TechCiti Software Consulting PVT LTD. Bengaluru

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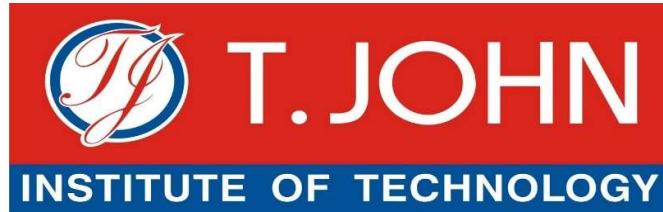
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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that internship work entitled “**Website Design For Restaurant Application (Ecommerce)**” carried out by **CHETAN B R** bearing **USN: 1TJ21IS005**, in partial fulfilment for the award of **Bachelor of Engineering in Information Science of Visvesvaraya Technological University, Belagavi** during the academic year **2023-2024**.

It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the department library. The internship report has been approved as it satisfies the academic requirements in respect of internship work as prescribed for the course Internship / Professional Practice (21INT68).

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INTERNSHIP CERTIFICATE



Technology is boundless...

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Date: 24th November, 2023

TO WHOMSOEVER IT MAY CONCERN

We would like to inform you that Mr. **Chetan B R** has successfully completed his internship with our company, he has been working on the project title: **"eCommerce (Restaurant) Website"** under the domain: Python with Django from 26-10-2023 to 24-11-2023 as "Software Developer-Intern".

We have found him to be a self-starter who is motivated, duty-bound and hardworking. He has worked sincerely on his assignments and his performance is at par excellence.

We wish him all the best for his future endeavors.

Sincerely,



Manager

Human Resources Department

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DECLARATION

I, **CHETAN B R**, hereby declare that the dissertation entitled, “**Website Design For Restaurant Application (Ecommerce)**”, which has been submitted by me as partial fulfillment for the third year semester examination of Engineering degree from Visvesvaraya Technological University, Belagavi, is an authentic record of my own work carried out by me during first year at **TechCiti Software Consulting Private Limited**, under the supervision of internal guide **Ms. Seema A Gundad**, TJIT, Bangalore.

I further undertake that the matter embodied in the dissertation has not been submitted previously for the award of degree by me to any institution.

Date: 30/07/2024

Place: Bangalore

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NAME: CHETAN B R

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompanies the successful completion of any task would be incomplete without mentioning the people who made it possible, whose constant guidance and encouragement crowned my efforts with success.

I have a great pleasure in expressing my deep sense of gratitude to founder **Chairman, Dr. Thomas P John** for having provided us with a great infrastructure and well-furnished laboratories. I thank our beloved Principal, **Dr. P Suresh Venugopal** for giving me the opportunity to study in this prestigious institute. His constant support and encouragement.

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I hereby express my happiness for completing “**INTERNSHIP**” Training successfully for the period of 1 month. I generally thank all the members for giving me an opportunity to learn many important features of training. I extend my special thanks and gratitude to **Ms. Kasthuri K, TechCiti Software Consulting Private Limited**, for guidance given in spite of a busy work schedule and made training programs very interesting for which act of kindness remain ever grateful.

Finally, I hope this training will help me in building my career of engineering with the aid of equipment provided by your factory in a cordial atmosphere.

CHETAN B R - 1TJ21IS005

ABSTRACT

The rise of e-commerce has led to the growth of online restaurant website, which offer customers the convenience of browsing and ordering food from the comfort of their own homes. In order to compete in this market, it is important for restaurant owners to have a well-designed website that is easy to navigate, visually appealing, and functional.

This abstract will discuss the design considerations for a website for a restaurant application. The website will need to include features such as a search bar, filters, and categories to make it easy for customers to find the dishes they are looking for. It should also have a simple and intuitive checkout process, as well as secure payment options.

In addition to functionality, the website design should also be visually appealing, with an attractive layout and color scheme. It should also be responsive and optimized for mobile devices, as many customers may browse and make purchases on their smartphones or tablets.

Overall, a well-designed website is crucial for the success of an online restaurant. It should be easy to use, visually appealing, and optimized for mobile devices to provide a seamless experience for customers.

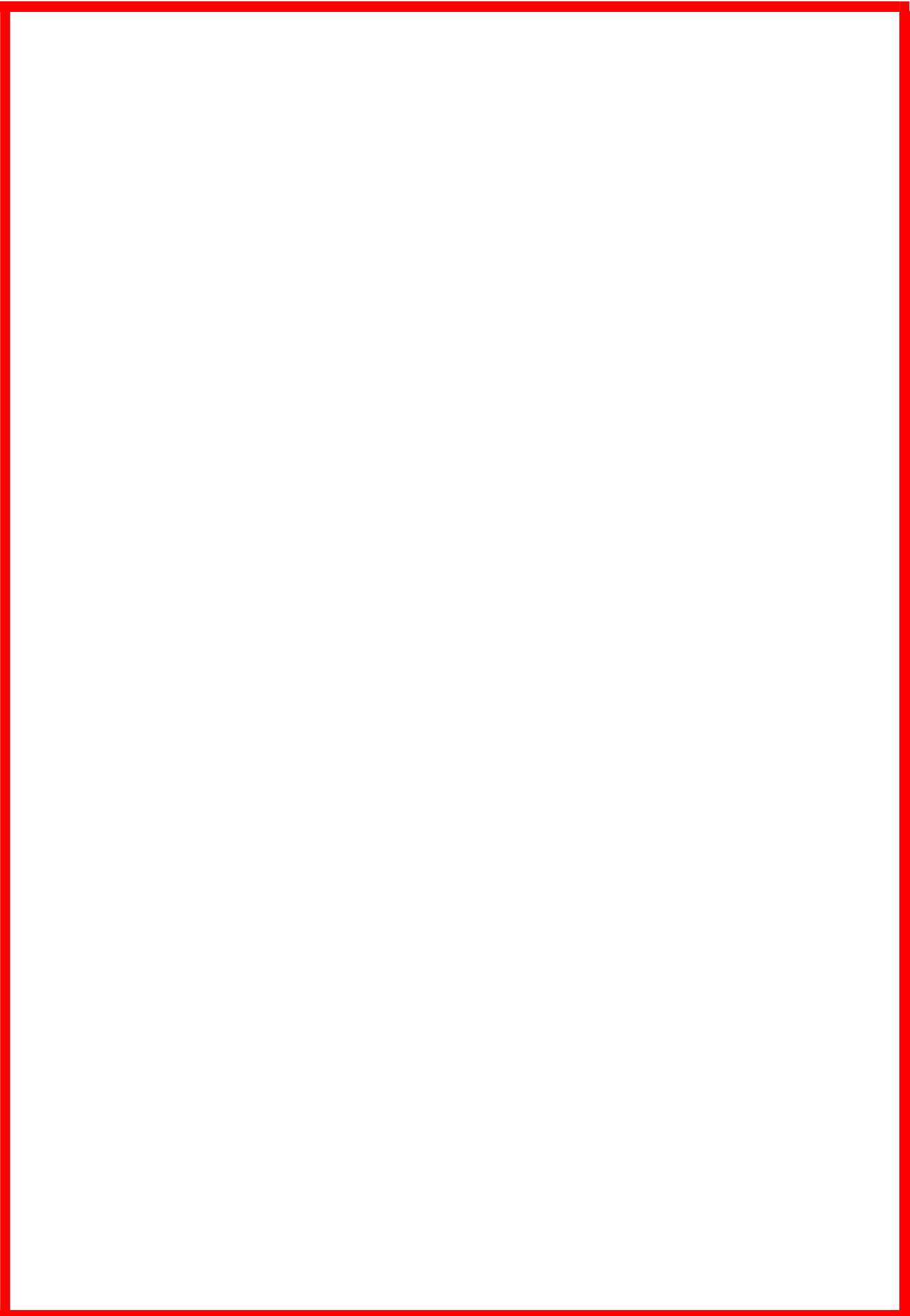
A website that allows people to buy dishes, services, and book table over the internet rather than at a brick-and-mortar location. Through an e-commerce website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service.

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CHAPTER 1

TEHCITI SOFTWARE CONSULTING PVT. LTD. AN OVERVIEW

Techciti Software Consulting Private Limited is a distinguished Indian-based software development and consulting company that offers a comprehensive suite of IT services to businesses and organizations globally. Founded in 2012, the company is headquartered in Bangalore, India, a city renowned for its thriving technology and innovation landscape. Techciti provides an extensive range of software development services. Their web application development services focus on crafting responsive and scalable web applications tailored to client needs.

For mobile application development, they develop intuitive and user-friendly mobile apps for both Android and iOS platforms. In the realm of cloud computing, Techciti offers robust cloud solutions that enhance business efficiency and scalability. Their digital marketing services are geared towards implementing strategies to boost online presence and engagement, while their software testing services ensure the reliability and performance of software through rigorous testing protocols. Additionally, Techciti delivers software consulting services, assisting clients in developing and implementing software solutions that align with their specific business requirements.

Techciti's team of skilled software developers and consultants possess expertise in a variety of technologies, including Java, .NET, PHP, Python, and Ruby on Rails. They employ agile development methodologies to deliver high-quality software solutions to clients in a timely and cost-effective manner. This approach allows them to adapt to changing requirements and deliver iterative improvements throughout the development process.

The company has successfully collaborated with clients across diverse industries, including healthcare, finance, ecommerce, and education. Some of their notable clients include industry giants like IBM, Capgemini, and Wipro. Techciti's reputation for reliability and excellence has made them a trusted partner for these organizations.

1.1 VISION OF THE COMPANY

1. Delivering high-quality, customized software solutions that meet the specific needs of its clients.
2. Continuously innovating and staying ahead of the curve in terms of emerging technologies and industry trends.
3. Building long-term relationships with clients based on trust, integrity, and a commitment to excellence.
4. Investing in its employees and providing a supportive work environment that fosters creativity, collaboration, and growth.
5. Contributing to the development of society by supporting social initiatives and programs that improve the lives of underprivileged communities.

1.2 MISSION OF THE COMPANY

Our mission is to achieve the leading position as a distinguished and absolute end-to-end information technology infrastructure and service provider. We want to develop with profitable growth through superior Customer service, Innovation, Quality and Commitment.

CHAPTER 2

INTRODUCTION

Web designing is the process of creating visually appealing, functional, and responsive websites. It involves a combination of creative and technical skills to produce websites that are user-friendly, engaging, and effective in achieving their intended purpose.

Web designers use a variety of tools and technologies to create websites, including HTML, CSS, JavaScript, and other programming languages. They also consider the user experience, incorporating elements such as navigation, typography, color, and layout to create a cohesive and engaging design.

A web designer may work independently, as part of a team, or in collaboration with other professionals such as developers, content creators, and marketers. The goal of web design is to create a website that is not only aesthetically pleasing but also easy to use, accessible to all users, and optimized for search engines.

2.1 The Goal of this Application:

1. Providing a seamless user experience: A well-designed website for a restaurant should be easy to navigate, allowing users to quickly find the dishes, starters, tables, decorations they are looking for and book them without any friction.
2. Showcasing the products effectively: The website should have a clear and concise layout that allows users to browse through the available menu and access additional information such as reviews and ratings.
3. Promoting new releases and specials: A restaurant website should also feature sections for new releases, bestsellers, and special offers to entice users to make purchases.
4. Building customer engagement: A well-designed restaurant website should include features that engage customers, such as a blog or newsletter, to keep them informed about new releases, upcoming events, and other relevant information.

2.2 Scope of this Application:

1. User interface design: This involves designing a user-friendly interface that allows users to easily navigate the website and access the information they need to make informed decisions.
2. Visual design: This involves designing a visually appealing website that incorporates elements such as color, typography, and imagery to create a cohesive and engaging design.
3. Information architecture: This involves structuring the content of the website in a way that is easy to understand and navigate, ensuring that users can quickly find the information they need.
4. E-commerce integration: This involves integrating e-commerce functionality into the website, such as a online ordering, booking a table, checkout process, and payment gateway, to enable users to make order directly through the website.
5. Search engine optimization: This involves optimizing the website to rank well in search engine results pages, increasing visibility and driving traffic to the website.
6. Mobile optimization: This involves optimizing the website for mobile devices, ensuring that it is responsive and accessible on a range of devices and screen sizes.

Today, the ability to create websites that are compatible with desktop computers as well as mobile devices is one of the most essential abilities a web designer can possess. Web design for desktop computers is still the most frequent type, although mobile devices are rapidly overtaking desktop computers as the primary platform for internet use. Therefore, web designers need to be knowledgeable with both design patterns and coding languages in order to be able to create websites that look good and perform correctly on both desktop computers and mobile devices.

CHAPTER 3

TOOLS AND TECHNOLOGIES USED

Hardware Requirement:

System	:	Intel Core i3, 2.1 GHz or (Higher version)
Monitor	:	15 VGA color
Keyboard	:	Lapcare
Ram	:	4 GB

Software Requirement:

OS	:	WINDOWS XP/7/8/10
Database	:	Microsoft Excel

3.1 HTML

HTML, or Hyper Text Markup Language, is a markup language used for creating web pages and other types of electronic documents that can be displayed in a web browser. HTML is based on a set of tags, which are enclosed in angle brackets, and are used to indicate the structure and content of the document. Some important points about HTML are:

- HTML is not a programming language, but a markup language.
- HTML documents are made up of HTML elements, which are enclosed in angle brackets.
- HTML elements can contain text, images, and other types of content.
- HTML documents have a hierarchical structure, with nested elements forming a tree- like structure.
- HTML documents are typically saved with a .html file extension.

3.2 CSS

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects. CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

Advantages of CSS:

- CSS saves time – You can write CSS once and then reuse same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want.
- Pages load faster – If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So, less code means faster download times.
- Easy maintenance – To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.

3.3 JAVASCRIPT

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full- fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. It was introduced in the year 1995 for adding programs to the webpages in the Netscape Navigator browser. Since then, it has been adopted by all other graphical web browsers. With JavaScript, users can build modern web applications to interact directly without reloading the page every time. The traditional website uses js to provide several forms of interactivity and simplicity. Although, JavaScript has no connectivity with Java programming language

Merits of JavaScript:

- Less server interaction – You can validate user input before sending the page off to the server. This saves server traffic, which means less load on your server.
- Immediate feedback to the visitors – They don't have to wait for a page reload to see if they have forgotten to enter something.
- Increased interactivity – You can create interfaces that react when the user hovers over them with a mouse or activates them via the keyboard.
- Richer interfaces – You can use JavaScript to include such items as drag-and-drop components and sliders to give a Rich Interface to your site visitors.

Demerits of JavaScript:

- JavaScript cannot be used for networking applications because there is no such support available.
- JavaScript doesn't have any multi-threading or multiprocessor capabilities.
- JavaScript's debugging tools are not as advanced as those of other programming languages.
- In terms of speed, JavaScript is generally slower than lower-level programming languages such as C++ or Java.
- Though some HTML editors support debugging, it's not as efficient as other editors like C/C++ editors. Hence difficult for the developer to detect the matter.

3.4 Python

Python is a high-level, interpreted programming language known for its simplicity and readability. It offers a dynamic type system and automatic memory management, making it suitable for various applications, from web development to scientific computing. Some important points about Python are:

- Python emphasizes code readability and simplicity, making it easier to write and understand code.

- Python has a vast standard library, providing modules and functions for a wide range of tasks, from file I/O to networking.
- Python is platform-independent, meaning code written in Python can run on any platform with minimal or no modifications.
- Python is widely used in various fields, including web development, data analysis, artificial intelligence, scientific computing, and more.

3.5 Django – Python Framework

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. It simplifies the process of building web applications by providing reusable components and following the Don't Repeat Yourself (DRY) principle. Some important points about Django are:

- Django follows the Model-View-Template (MVT) architectural pattern, which separates the data model, user interface, and application logic.
- It includes an Object Relational Mapper (ORM) that abstracts away database access, allowing developers to work with high-level Python objects instead of SQL queries.
- Django provides built-in security features, such as protection against common web vulnerabilities like SQL injection, cross-site scripting (XSS), and cross-site request forgery (CSRF).
- It includes an administration interface that automatically generates CRUD (Create, Read, Update, Delete) interfaces for database models, making it easy to manage application data.
- Django is highly extensible, with a vibrant ecosystem of third-party packages and extensions available for adding additional functionality to Django projects.

CHAPTER 4

DESIGN AND IMPLEMENTATION

HTML CODE:

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta content="width=device-width, initial-scale=1.0" name="viewport" />

    <title>DESI-LICIOUS RESTRO-PUB</title>
    <meta content="" name="description" />
    <meta content="" name="keywords" />

    <!-- Favicons -->

    <link
      rel="apple-touch-icon"
      sizes="180x180"
      href="{% static 'assets/img/favicon/apple-touch-icon.png' %}"
    />
    <link
      rel="icon"
      type="image/png"
      sizes="32x32"
      href="{% static 'assets/img/favicon/favicon-32x32.png' %}"
    />
    <link
      rel="icon"
      type="image/png"
      sizes="16x16"
      href="{% static 'assets/img/favicon/favicon-16x16.png' %}"
    />
    <link
```

```
from datetime import datetime
from django.http import HttpResponse
from django.shortcuts import render, redirect
from django.contrib.auth.models import User
from django.contrib.auth import authenticate
from django.contrib import auth
from django.contrib import messages
from .models import bookTable, ContactUS, SubEmail
```

```
# Create your views here.
def index(request):
    if request.method == "POST":
        if 'tableName' in request.POST: # Check if reservation form is submitted
            Tname = request.POST['tableName']
            Temail = request.POST['tableEmail']
            Tphone = request.POST['tablePhone']
            Tdate_str = request.POST['date']
            Ttime = request.POST['time']
            Tpeople = request.POST['people']
            Tmessage = request.POST['message']

            try:
                parsed_date = datetime.strptime(Tdate_str, "%d/%m/%Y").strftime("%Y-%m-%d")
            except ValueError:
                messages.error(request, "Invalid date format. Please use DD/MM/YYYY.")
                return redirect('index') # Redirect back to the reservation form
```

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta content="width=device-width, initial-scale=1.0" name="viewport" />

<title>DESI-LICIOUS RESTRO-PUB</title>
<meta content="" name="description" />
<meta content="" name="keywords" />

<!-- Favicons -->

<link
  rel="apple-touch-icon"
  sizes="180x180"
  href="{% static 'assets/img/favicon/apple-touch-icon.png' %}"
/>
<link
  rel="icon"
  type="image/png"
  sizes="32x32"
  href="{% static 'assets/img/favicon/favicon-32x32.png' %}"
/>
<link
  rel="icon"
  type="image/png"
  sizes="16x16"
  href="{% static 'assets/img/favicon/favicon-16x16.png' %}"
/>
<link
  rel="manifest"
  href="{% static 'assets/img/favicon/site.webmanifest' %}"
/>
<link
  rel="shortcut icon"
  href="{% static 'assets/img/favicon/favicon.ico' %}"
  type="image/x-icon"
/>
```

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta content="width=device-width, initial-scale=1.0" name="viewport" />

<title>{% block title %}DESI-LICIOUS RESTRO-PUB{% endblock %}</title>
<meta content="" name="description" />
<meta content="" name="keywords" />

<!-- Favicons -->

<link
  rel="apple-touch-icon"
  sizes="180x180"
  href="{% static 'assets/img/favicon/apple-touch-icon.png' %}"
/>
<link
  rel="icon"
  type="image/png"
  sizes="32x32"
  href="{% static 'assets/img/favicon/favicon-32x32.png' %}"
/>
<link
  rel="icon"
  type="image/png"
  sizes="16x16"
  href="{% static 'assets/img/favicon/favicon-16x16.png' %}"
/>
<link
  rel="manifest"
  href="{% static 'assets/img/favicon/site.webmanifest' %}"
/>
<link
  rel="shortcut icon"
  href="{% static 'assets/img/favicon/favicon.ico' %}"
  type="image/x-icon"
/>
```

CHAPTER 5

RESULT

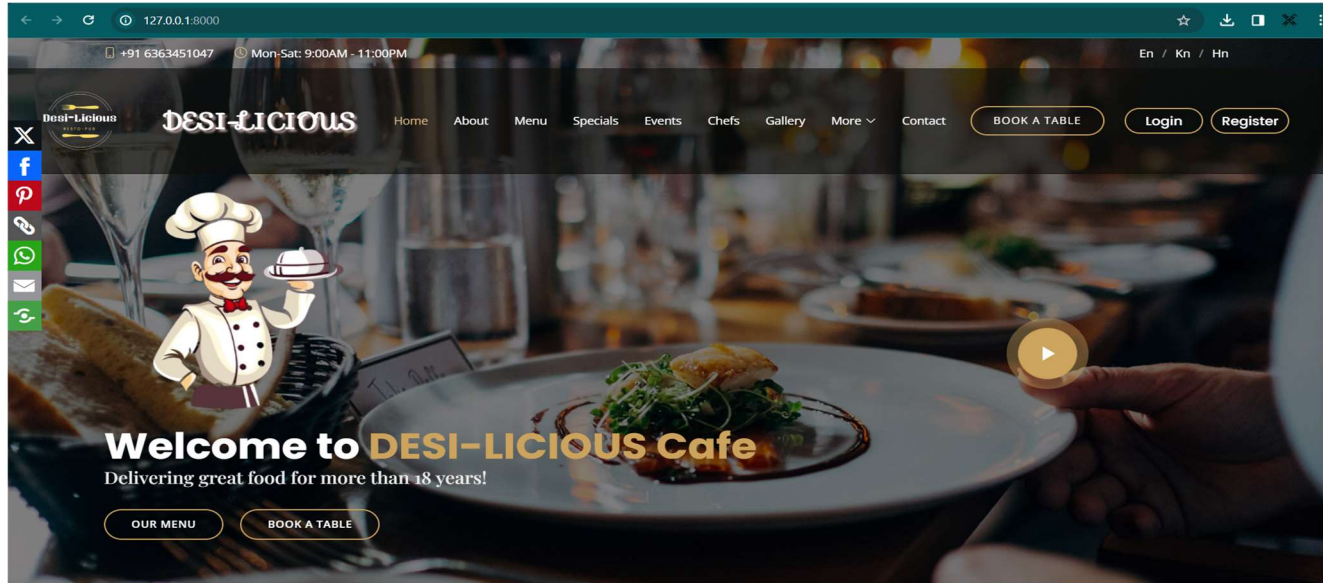


Fig 5.1: Home Page

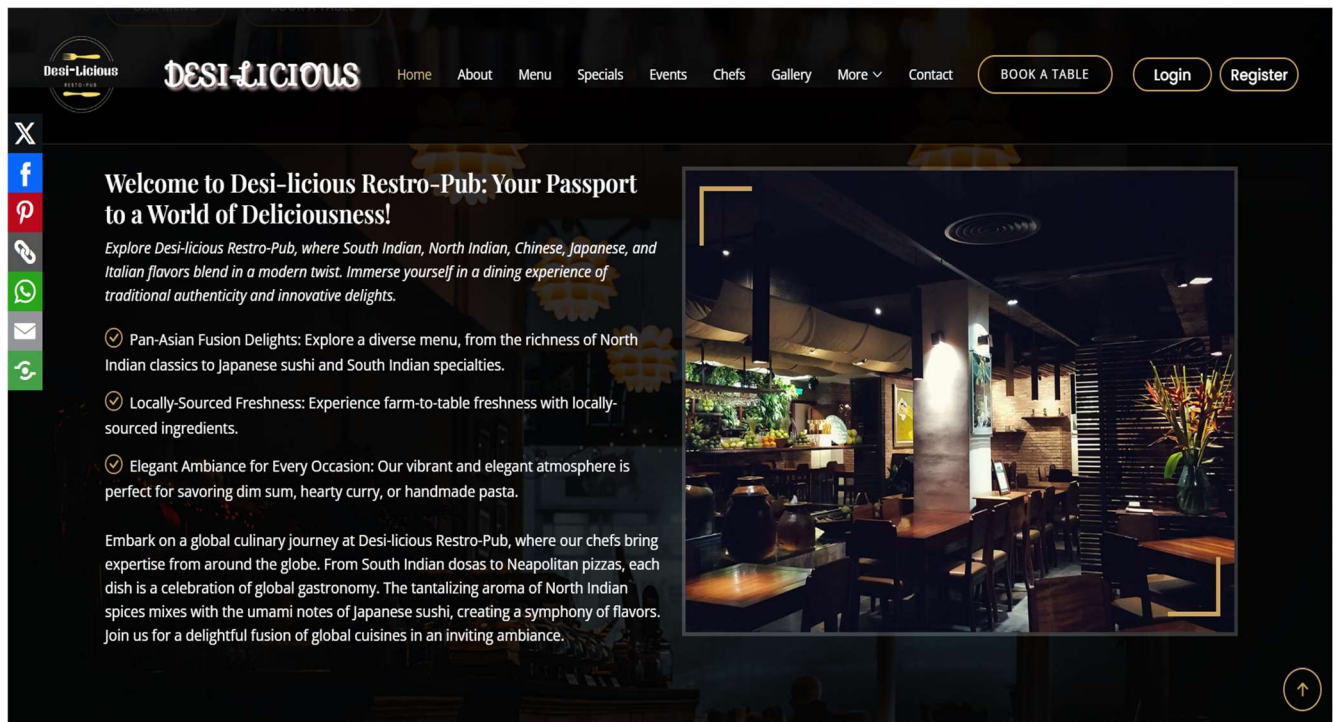


Fig 5.2: About Page

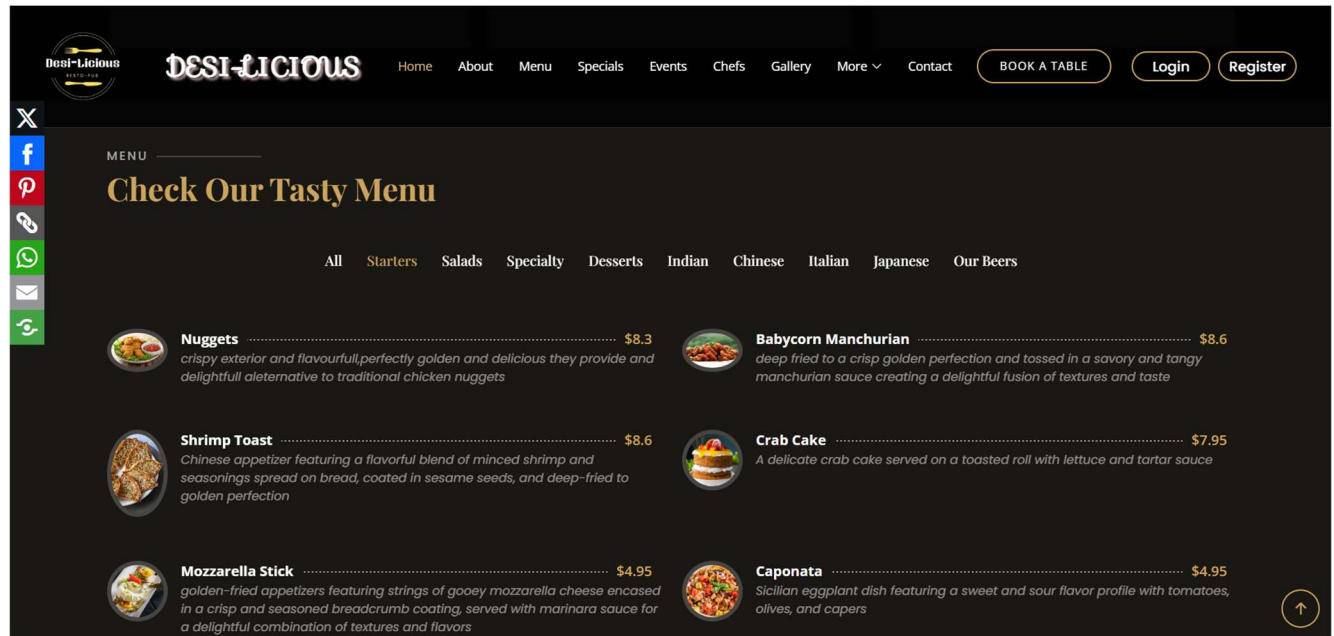


Fig 5.3: Menu Page



Fig 5.4: Special Dish Page

The screenshot shows the 'Book a Table' reservation page for 'Desi-Licious'. The header includes the restaurant's logo, navigation links (Home, About, Menu, Specials, Events, Chefs, Gallery, More, Contact), and buttons for 'BOOK A TABLE', 'Login', and 'Register'. A sidebar on the left contains social media icons (Twitter, Facebook, Pinterest, LinkedIn, WhatsApp, Email, RSS). The main content area is titled 'RESERVATION' and 'Book a Table'. It features a form with input fields for 'Your Name', 'Your Email', 'Your Phone', 'Date', 'Time', and '# of people', along with a 'Message' text area. A 'Book a Table' button is positioned below the form. A small 'up' arrow icon is in the bottom right corner.

Fig 5.5: Table Booking Page

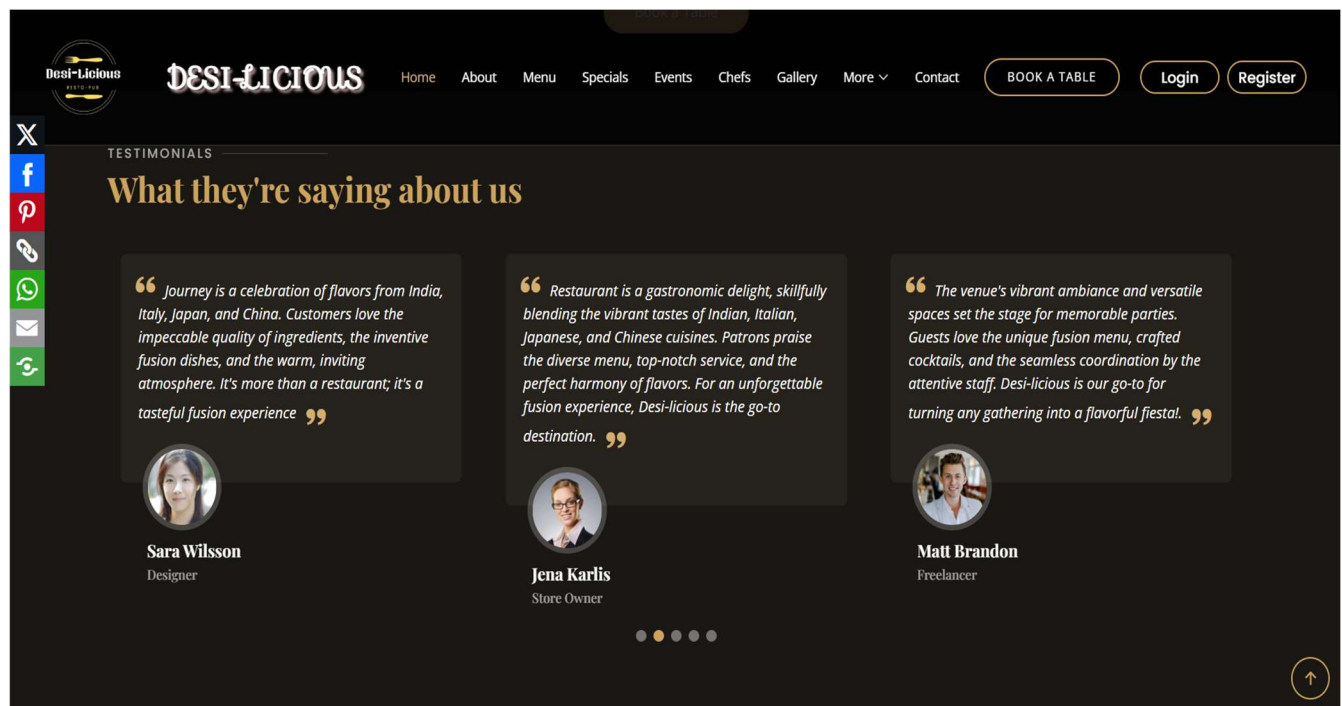


Fig 5.6: Testimonial page

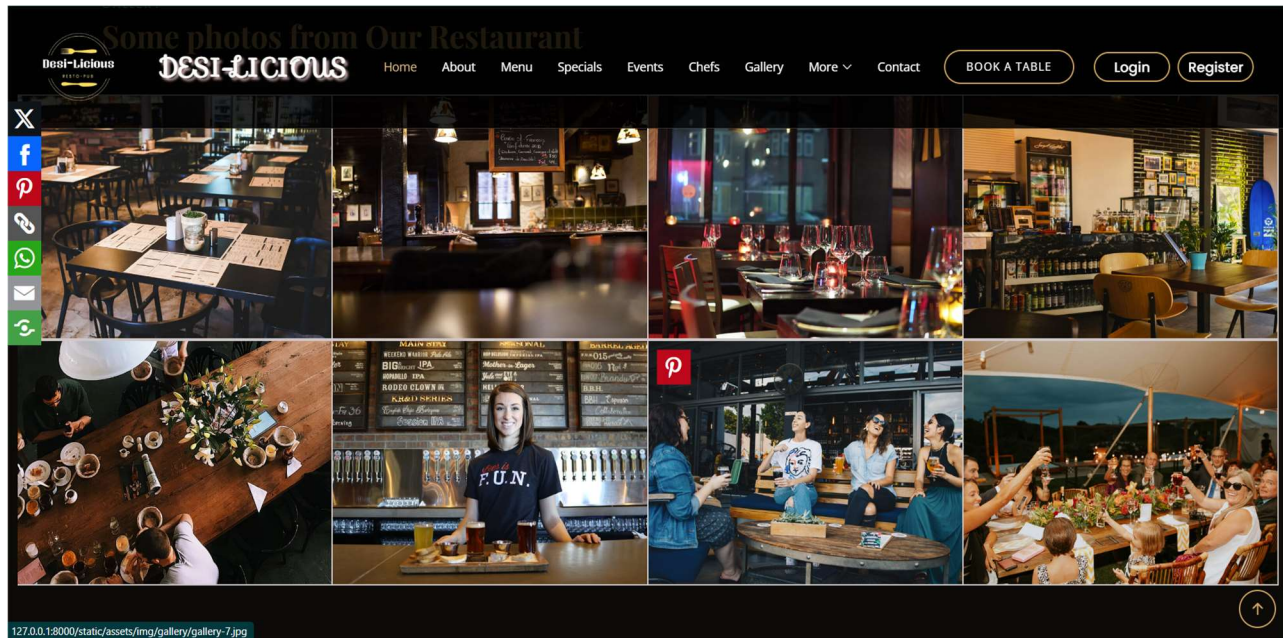


Fig 5.7: Events page

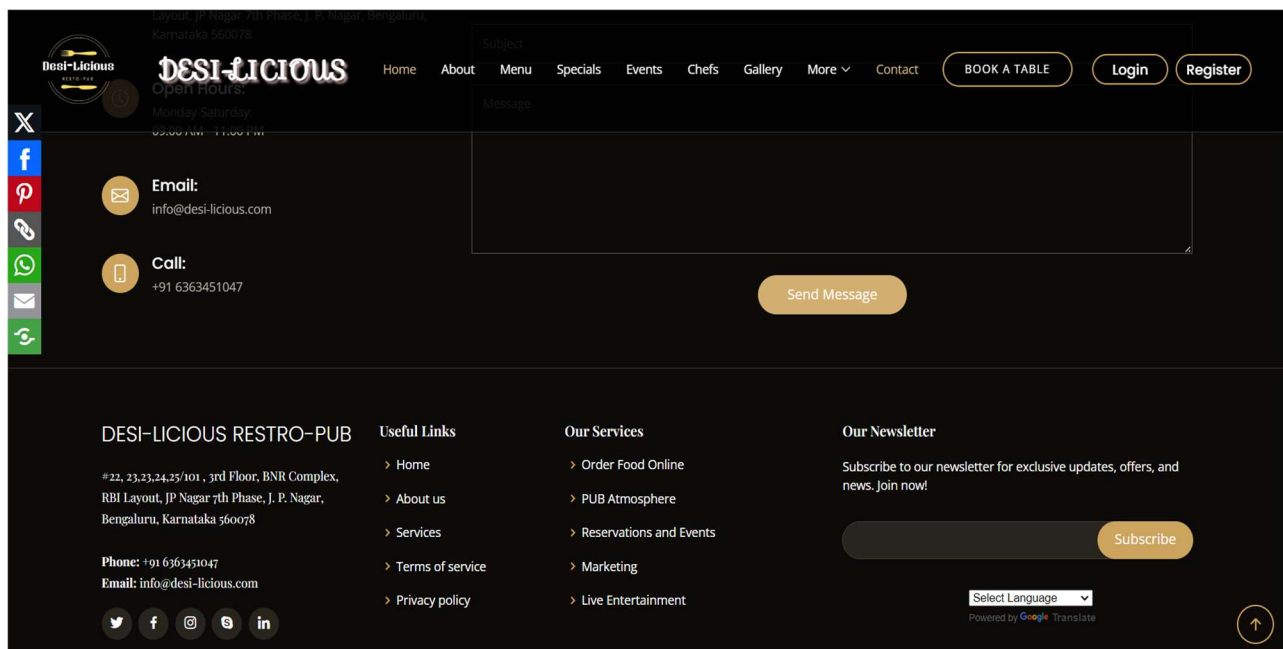
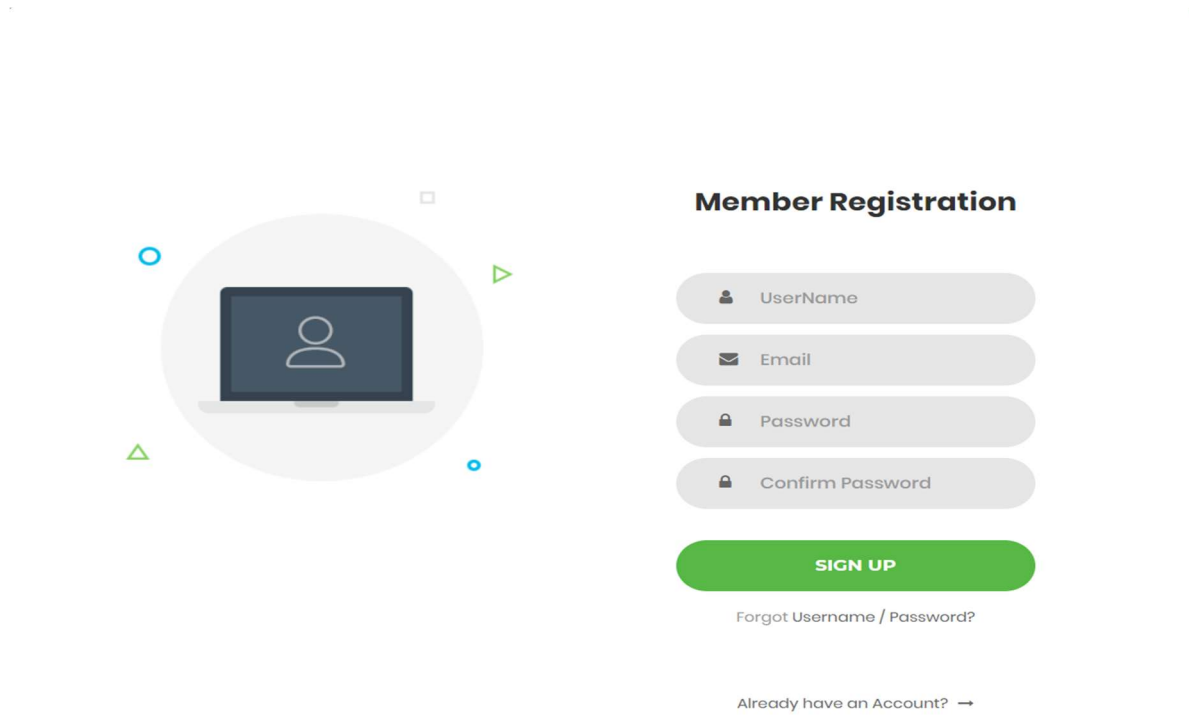
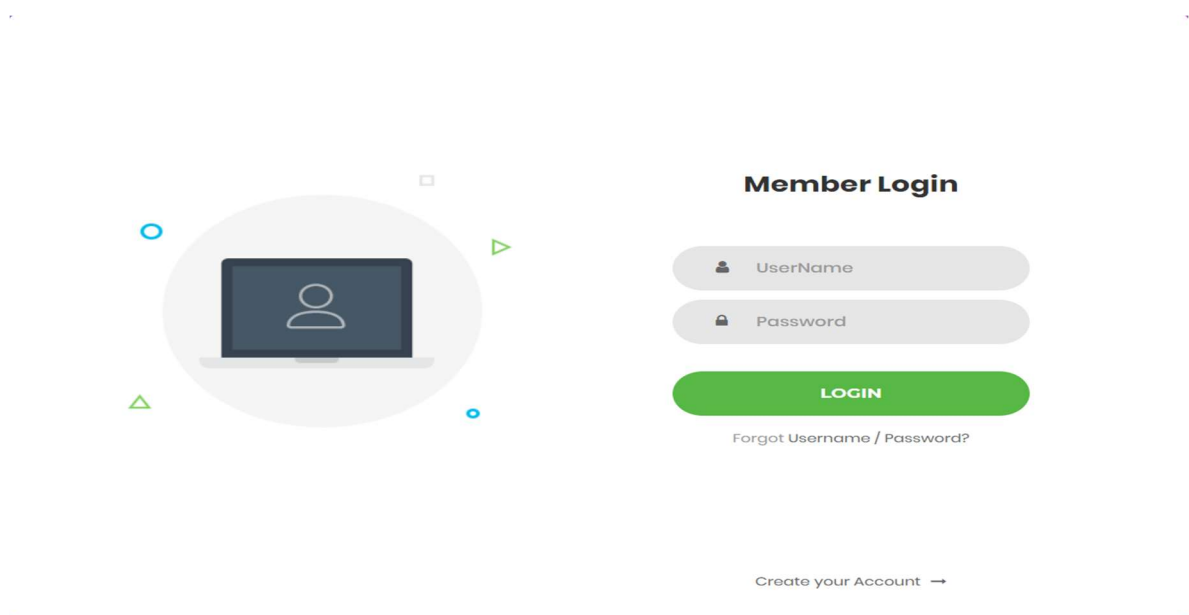


Fig 5.8: Contact Page



The image shows a user registration form titled "Member Registration". On the left, there is a decorative graphic of a laptop with a person icon on its screen, surrounded by four small geometric shapes (a square, a triangle, a circle, and another triangle) in light blue and green. The form itself is on the right and consists of four input fields: "UserName" (with a person icon), "Email" (with an envelope icon), "Password" (with a lock icon), and "Confirm Password" (with a lock icon). Below these fields is a prominent green "SIGN UP" button. Underneath the button is a link that says "Forgot Username / Password?". At the bottom of the form is another link that says "Already have an Account? →".

Fig 5.9: Register Page



The image shows a user login form titled "Member Login". It features the same decorative laptop graphic on the left as the registration page. The form on the right has two input fields: "UserName" (with a person icon) and "Password" (with a lock icon). Below these is a green "LOGIN" button. Underneath the button is a link that says "Forgot Username / Password?". At the bottom of the form is a link that says "Create your Account →".

Fig 5.10: Login Page

CHAPTER 6

CONCLUSION

Web designing using HTML, CSS, Python, and Django combines front-end and back-end development skills, offering a comprehensive approach to creating dynamic and interactive websites. HTML and CSS remain fundamental for structuring web content and defining its visual presentation, while Python and Django provide powerful tools for server-side scripting, database management, and building complex web applications.

Python, known for its simplicity and versatility, serves as an excellent language for web development. When combined with Django, a high-level Python web framework, developers gain access to a robust set of features for rapid development and scalability. Django offers built-in components for handling tasks such as URL routing, database modeling, user authentication, and templating, streamlining the development process and promoting code reusability.

By integrating Python and Django into web designing, developers can create dynamic websites with interactive features and seamless user experiences. Python's extensive library ecosystem further enhances functionality, enabling integration with third-party services, data analysis, and machine learning capabilities.

Furthermore, incorporating JavaScript frameworks like Bootstrap alongside HTML, CSS, Python, and Django can extend the capabilities of web designing. Bootstrap simplifies the creation of responsive and mobile-friendly layouts, ensuring that websites adapt seamlessly to various screen sizes and devices.

Mastering web designing with HTML, CSS, Python, and Django opens doors to diverse career opportunities in web development, software engineering, data science, and more. As the demand for dynamic and scalable web applications continues to rise, proficiency in these technologies becomes increasingly valuable in the digital landscape. Whether pursuing a career as a full-stack developer, system architect, or digital marketer, proficiency in HTML, CSS, Python, and Django provides a solid foundation for success in the ever-evolving field of web design .

CHAPTER-7

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6. <https://www.freecodecamp.org>
7. <https://www.geeksforgeek.org>
8. <https://www.chat.openai.com>