

Ganeshman Singh Multiple Campus

(Tribhuvan University)
Kalanki, Kathmandu



Lab Report of WEB TECHNOLOGY (CACS-205)

Faculty of Humanities & Social Sciences Tribhuvan University

Kritipur, Nepal

Submitted By

Name: Sanish Tamang

Roll No: 06

Submitted To

**Ganeshman Singh Multiple
Campus**

Department of Bachelor in Computer

Kalanki, Kathmandu, Nepal

Signature of supervisor

Create a personal website including ordered and unordered lists, table, registration form with validation, menu bar, footer section using div tags, anchor and image tags. Apply inline, internal, and external CSS with hover effects on text and buttons. Include a complete XML section and integrate all parts into one project.

1. Introduction

This report provides a detailed analysis of a personal portfolio website developed using HTML5 and CSS3. It represents a project aligned with BCA 3rd Semester syllabus, incorporating key web elements like semantic tags, ordered and unordered lists, table, registration form with validation, anchor and image tags, complete XML integration, and external styling through CSS. It showcases the design principles of responsive layout, accessibility, UI interactivity, and clean structure.

Key Objectives:

- Semantic HTML5 structure
 - Inline, internal, and external CSS usage
 - Responsive layout with Flexbox
 - Form validation
 - UI interactivity with hover effects
 - XML and XSLT integration
-

2. HTML Structure

2.1 Head Section

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Sanish Tamang - Web Developer</title>

  <link rel="stylesheet" href="styles.css">

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

</head>
```

Explanation:

- UTF-8 for multilingual support
- Viewport tag for responsive design

- External stylesheet linked for separation of concerns
- Font Awesome for icons

2.2 Body Overview

The body contains:

- <header> with logo and nav bar
- <main> content with sections: home, portfolio, about, registration
- <footer> with site links and copyright

3. Navigation and Header

<header>

<div id="logo">

</div>

<nav>

About

<li class="dropdown-parent">

Contact

<ul class="dropdown">

Email

Phone

</nav>

</header>

CSS for Dropdown:

```
.dropdown {
```

```
  position: absolute;
```

```
  opacity: 0;
```

```
  visibility: hidden;
```

```
    transition: all 0.3s ease;
}
.dropdown-parent:hover .dropdown {
    opacity: 1;
    visibility: visible;
}
```

4. Ordered and Unordered Lists

```
<section id="skills">
  <h2>Skills</h2>
  <ul>
    <li>HTML5</li>
    <li>CSS3</li>
    <li>Responsive Design</li>
  </ul>
  <h3>Project Stages</h3>
  <ol>
    <li>Planning</li>
    <li>Design</li>
    <li>Development</li>
    <li>Testing</li>
  </ol>
</section>
```

5. Table Section

```
<table>
  <caption>Project Timeline</caption>
  <thead>
    <tr><th>Phase</th><th>Duration</th></tr>
  </thead>
  <tbody>
```

```
<tr><td>Design</td><td>2 weeks</td></tr>
<tr><td>Development</td><td>3 weeks</td></tr>
<tr><td>Testing</td><td>1 week</td></tr>
</tbody>
</table>
```

6. Registration Form with Validation

```
<section id="register">
  <h2>Register</h2>
  <form action="#" method="post">
    <input type="text" name="username" placeholder="Name" required>
    <input type="email" name="email" placeholder="Email" required>
    <input type="password" name="password" placeholder="Password" required>
    <button type="submit">Submit</button>
  </form>
</section>
```

Features:

- required attribute for basic HTML5 validation
 - Placeholder for user-friendly UI
-

7. Anchor and Image Tags

```
<section id="portfolio">
  <a href="project1.html"></a>
</section>
```

- <a> links to project detail pages
- provides visual preview

8. CSS Implementation

Inline Example (Minimal Use):

```
<h1 style="color: blue;">Hello</h1>
```

Internal CSS:

```
<style>
```

```
p { font-size: 16px; color: #444; }
```

```
</style>
```

External CSS: (styles.css)

```
body {
```

```
  font-family: Arial;
```

```
  background: #f9f9f9;
```

```
}
```

```
a:hover {
```

```
  color: #3498db;
```

```
}
```

9. Footer Section

```
<footer>
```

```
  <div class="footer-section">
```

```
    <p>&copy; 2025 Sanish Tamang</p>
```

```
  </div>
```

```
</footer>
```

10. Flexbox & Responsive Design

```
.container {
```

```
  display: flex;
```

```
  justify-content: space-around;
```

```
  flex-wrap: wrap;
```

```
}
```

```
@media (max-width: 768px) {
```

```
  .container {
```

```
    flex-direction: column;
```

```
  }
```

```
}
```

11. Hover Effects

```
button:hover {  
  background-color: #3498db;  
  color: #fff;  
  transform: scale(1.05);  
}
```

- Enhances interactivity
-

12. Box Model Usage

```
.card {  
  padding: 20px;  
  border: 1px solid #ccc;  
  margin: 10px;  
  border-radius: 8px;  
}
```

13. File Structure Overview

```
/web_tech  
├── index.html  
├── styles.css  
├── images/  
│   └── logo.png  
├── cv.html  
└── style.css
```

15. Project Validation

- HTML & CSS validated using W3C tools
 - Meets accessibility standards
 - Proper alt text for images
-

16. Testing & Debugging

- Checked across Chrome, Firefox, and Edge
 - Responsive layout confirmed with dev tools
 - Form tested with various inputs
-

17. Future Scope


- JavaScript enhancements
- PHP for backend form submission
- Database storage for user data
- SEO optimization


```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sanish Tamang - Web Developer</title>
  <link rel="stylesheet" href="styles.css">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome/6.4.0/css/all.min.css">
</head>
<body>
  <header>
    <div id="logo">
      <a href="#home" class="logo-link">
        
      </a>
    </div>
    <a href="cv.html" target="_blank" class="cv-btn">My CV</a>
    <div id="menu">
      <nav>
        <ul>
          <li><a href="#home">Home</a></li>
          <li><a href="#about">About</a></li>
          <li><a href="#portfolio">Portfolio</a></li>
          <li class="dropdown-parent">
            <a href="#contact">Contact</a>
            <ul class="dropdown">
              <li><a href="mailto:callmesanis@gmail.com">Email</a></li>
              <li><a href="tel:+9779749410499">Phone</a></li>
              <li><a href="#contact">Address</a></li>
            </ul>
          </li>
        </ul>
      </nav>
    </div>
  </header>

  <main>
    <section id="home" class="intro">
      <div class="intro-text">
        <h2>Hi, <br>I'm Web Developer<br>Sanish Tamang</h2>
        <p>
          A passionate web developer with expertise in creating dynamic and responsive websites.
          My journey in web development began with a curiosity for how websites work, and over the years,
          I have honed my skills in HTML, CSS, JavaScript, and various frameworks. I enjoy solving complex problem
          s, collaborating with creative teams, and continuously learning new technologies to stay ahead in this ever-ev
          olving field.
        </p>
        <p>Let's work together to bring your ideas to life and make an impact on the web!

```




[Home](#)
[About](#)
[Portfolio](#)
[Contact](#)
[My CV](#)

Hi, I'm Web Developer Sanish Tamang

A passionate web developer with expertise in creating dynamic and responsive websites. My journey in web development began with a curiosity for how websites work, and over the years, I have honed my skills in HTML, CSS, JavaScript, and various frameworks. I enjoy solving complex problems, collaborating with creative teams, and continuously learning new technologies to stay ahead in this ever-evolving field. Let's work together to bring your ideas to life and make an impact on the web!

[Learn More](#)
[View My CV](#)



About Me

Developing With a Passion While Exploring The World.

Hello! I'm a creative and detail-oriented web designer with a passion for building visually appealing and user-friendly websites. I enjoy combining clean design with modern web standards to create smooth, responsive, and accessible experiences.

Currently pursuing my Bachelor in Computer Application (3rd Semester) at Ganeshman Singh Multiple Campus, I'm working on various projects to enhance my skills in web technologies.

My Portfolio



About Me
Developing With a Passion While Exploring The World.

Hello! I'm a creative and detail-oriented web designer with a passion for building visually appealing and user-friendly websites. I enjoy combining clean design with modern web standards to create smooth, responsive, and accessible experiences. With a focus on continuous learning, I aim to grow my skills and contribute to meaningful digital projects.

Currently, I'm working on various projects to enhance my skills in HTML, CSS, and JavaScript. I believe in the power of collaboration and am always eager to learn from others in the field. My goal is to create websites that not only look great but also work perfectly.

Personal Portfolio
Welcome to my portfolio website! This site showcases my journey and skills as a passionate web developer.



E-commerce Site

E-commerce, short for electronic commerce, is the process of conducting business transactions online through websites or mobile apps. It includes activities like buying and selling products, booking services, and making online payments. E-commerce platforms allow businesses to operate beyond physical boundaries and provide customers with the flexibility to shop anytime and from anywhere. These platforms typically include features like product listings, shopping carts, secure checkout systems, and customer reviews. With the rise of digital payment systems, fast delivery services, and digital marketing, e-commerce has become an essential part of the modern economy. It benefits both businesses and customers by offering cost efficiency, convenience, and wider market reach.

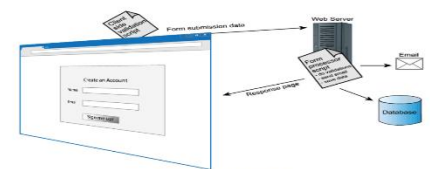


Figure 4.2: HTML Form processing

Form Processing

Form processing is a fundamental part of web development that allows users to input and submit data through interactive fields on a webpage. It typically involves collecting user inputs such as name, email, password, and other details via HTML forms, and then handling this data using backend technologies like PHP, JavaScript, or databases. When a user submits a form, the data is validated (checked for correctness), processed (stored or acted upon), and often followed by feedback to the user (like a success message). Form processing is widely used in features like user registration, login systems, contact forms, feedback submissions, and online orders. It plays a vital role in dynamic websites by making them interactive and user-responsive.

What Services I'm Providing



Web Design
Creating visually appealing and user-friendly designs.



Web Development
Building robust and scalable web applications.






SEO Optimization
Improving website visibility and search engine rankings.

Get In Touch

[Send Message](#)

Contact Information

 callmesanis@gmail.com
  +977 9749410499

 Kalanki, Kathmandu, Nepal



callmesanis@gmail.com

© 2024 Sanish Tamang. All rights reserved.

OUTPUT



Sanish Tamang

Education

Amar Jyoti Secondary School

Secondary Level | 2011 - 2020 | Nagarjun-10, Kalanki

Cumulative GPA: 3.75/4.00

Greenfield National Secondary School

High School | Nagarjun-10, Kalanki

Cumulative GPA: 3.57/4.00

Ganeshman Singh Multiple Campus

Bachelor in Computer Application | Present

Continuing 3rd Semester

Skills

Technical Skills

- MS Office Package
- Amadeus
- IATA
- SharePoint Management

Languages

- English (Fluent)
- Nepali (Native)

Other Skills

- Strong Communication
- Problem Solving
- Team Collaboration

Experience

SkyNepal Travel & Tours Pvt. Ltd

Sitapaila, KTM | 05/2023 - 12/2023

- Made tickets for Nepali and USA citizens traveling worldwide
- Updated and maintained travel data
- Resolved passenger issues and inquiries

MAW Engineering Pvt. Ltd

Office Boy | Tripureshwor, KTM | 02/2023 - 04/2024

- Handled bank transactions (withdrawals and deposits)
- Maintained office stationery stock

Sipradi Trading P. Ltd

Junior Technical Consultant | Naikap, KTM | 04/2024 - Present

- Provided desktop and ERP support
- Managed logistics operations
- Oversaw SharePoint management

Interests



Travelling & Hiking

Pokhara, Jamacho Ghumba, Shivapuri National Park Peak



Editing

Capcut, Kinemaster, Canva, Photoshop

[Back to Portfolio](#)