# Web Lab Exercise 5



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Subject	Web Programming	
Slot	L15+L16+L19+L20	
Venue	AB3 - 202	

## Exercise -5

### HTML -Semantic tags, Frames and Media Elements

- (A) Design a web page using HTML frames to divide it into multiple sections, including a header, navigation, main content, aside, and footer. In the main content frame, create a professional resume using semantic HTML5 tags. Incorporate the following elements:
  - <header>: For the top section, showcasing your name, professional title, and a tagline.
  - 2. <nav>: To provide navigation links for easy access to various sections of the resume (e.g., About Me, Education, Experience, Skills).
  - <section>: To structure key content areas, such as education, work experience, and technical skills.
  - 4. <article>: To detail specific achievements, projects, or publications.
  - 5. <aside>: To display supplementary information, such as quick facts, a brief profile summary, or links to a portfolio.
  - 6. <figure>: To include images (e.g., profile photo or project visuals) with captions.

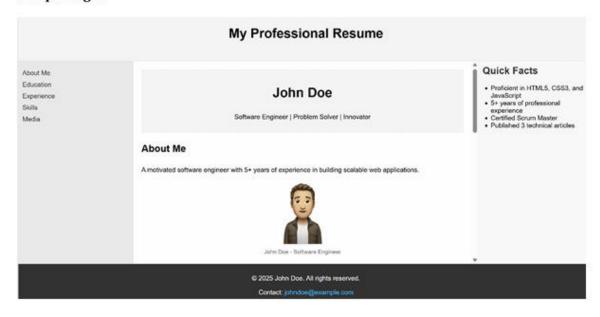
  - 8. <meter>: To highlight measurable achievements, certifications, or milestones.
  - <details> and <summary>: To toggle additional information, such as hobbies, extracurricular activities, or future goals.
  - 10. <footer>: To include contact details, social media links, and additional resources.

## Ensure the page is divided as follows:

- The header is displayed in a dedicated frame at the top.
- The navigation is shown in a vertical frame on the left.
- The main content occupies the central frame.
- The aside is placed in a frame on the right for supplementary information.
- The footer is displayed in a frame at the bottom.

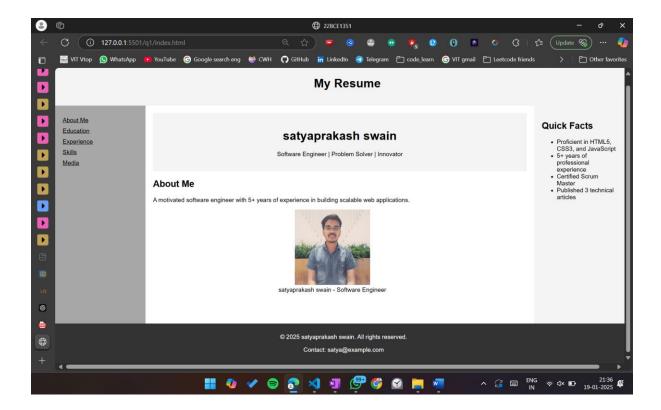
Focus on creating a visually appealing, accessible, and well-structured layout. The sample webpage is shown below.

# Sample Page:



## Resume frame content

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#### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>22BCE1351</title>
    <style>
        body {
           margin: 0;
            font-family: Arial, sans-serif;
            display: flex;
            flex-direction: column;
            min-height: 100vh;
        #experience{
            display: none;
        #skills{
            display: none;
        #education{
            display: none;
        header {
```

```
background-color: #f4f4f4;
    padding: 20px;
    text-align: center;
    width: 100%;
.container {
    display: flex;
    flex: 1;
nav {
    background-color: #a7a7a7;
    color: white;
    padding: 20px;
    width: 200px;
    flex-shrink: 0;
nav a {
    color: black;
    display: block;
    margin: 10px 0;
}
main {
   flex: 1;
    padding: 20px;
aside {
    background-color: #f4f4f4;
    padding: 20px;
    width: 200px;
    flex-shrink: 0;
    margin-left: 40px;
footer {
    background-color: #333;
    color: white;
    text-align: center;
    padding: 10px;
    width: 100%;
section {
    margin-bottom: 20px;
figure {
    text-align: center;
}
img{
    width: 200px;
```

```
</style>
</head>
<body>
    <script src="script.js"></script>
    <header>
        <h1>My Resume</h1>
    </header>
    <div class="container">
       <nav>
           <a href="#about" onclick="showAbout()">About Me</a>
            <a href="#education" onclick="showEducation()">Education</a>
           <a href="#experience" onclick="showExperience()">Experience</a>
            <a href="#skills" onclick="showSkills()">Skills</a>
            <a href="../q2/index.html" target=" blank">Media</a>
        </nav>
        <main>
           <header>
                <h1>satyaprakash swain</h1>
                Software Engineer | Problem Solver | Innovator
           </header>
            <section id="about">
               <h2>About Me</h2>
                A motivated software engineer with 5+ years of experience
in building scalable web applications.
                <figure>
                   <img src="satya.jpg" alt="satyaprakash swain Profile">
                   <figcaption>satyaprakash swain - Software
Engineer</figcaption>
                </figure>
           </section>
           <section id="education">
               <h2>Education</h2>
               Bachelor of Technology in Computer Science
                VIT University, 2022-2026
            </section>
           <section id="experience">
               <h2>Experience</h2>
               <article>
                   <h3>Software Engineer</h3>
                   ABC Company, 2019-Present
                   >Developed scalable web applications and collaborated
with cross-functional teams.
               </article>
```

```
</section>
         <section id="skills">
            <h2>Skills</h2>
            <l
               HTML5
               CSS3
               JavaScript
               React
               Node.js
            </section>
     </main>
         <h2>Quick Facts</h2>
            Proficient in HTML5, CSS3, and JavaScript
            5+ years of professional experience
            Certified Scrum Master
            Published 3 technical articles
         </aside>
  </div>
  <footer>
      © 2025 satyaprakash swain. All rights reserved.
      Contact: satya@example.com
  </footer>
</body>
</html>
```

# Script.js

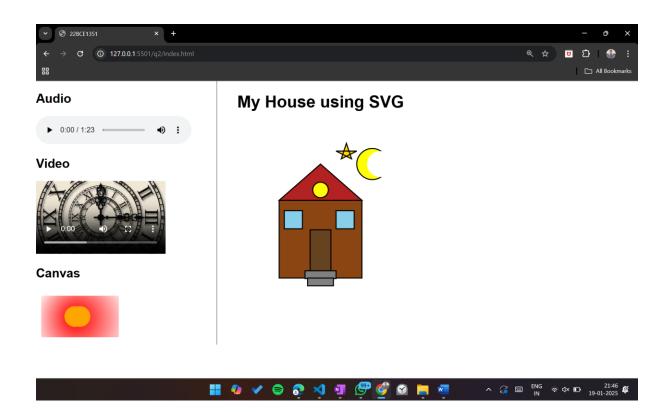
```
function showAbout(){
    const aboutEle = document.querySelector("#about");
    const experienceEle = document.querySelector("#experience");
    const educationEle = document.querySelector("#education");
    const skillsEle = document.querySelector("#skills");

    aboutEle.style.display = "block";
    experienceEle.style.display = "none";
    educationEle.style.display = "none";
```

```
skillsEle.style.display = "none";
function showExperience() {
    const aboutEle = document.querySelector("#about");
    const experienceEle = document.guerySelector("#experience");
    const educationEle = document.querySelector("#education");
    const skillsEle = document.querySelector("#skills");
    aboutEle.style.display = "none";
    educationEle.style.display = "none";
    skillsEle.style.display = "none";
    experienceEle.style.display = "block";
function showEducation() {
    const aboutEle = document.querySelector("#about");
    const experienceEle = document.querySelector("#experience");
    const educationEle = document.guerySelector("#education");
    const skillsEle = document.querySelector("#skills");
    aboutEle.style.display = "none";
    experienceEle.style.display = "none";
    skillsEle.style.display = "none";
    educationEle.style.display = "block";
function showSkills() {
    const aboutEle = document.guerySelector("#about");
    const experienceEle = document.querySelector("#experience");
    const educationEle = document.querySelector("#education");
    const skillsEle = document.querySelector("#skills");
    aboutEle.style.display = "none";
    experienceEle.style.display = "none";
    educationEle.style.display = "none";
    skillsEle.style.display = "block";
```

(B) Display media and graphic elements (given below) on the centre frame by clicking the navigation link Media (Audio, Video, SVG and Canvas). Use **iframe** for displaying SVG





```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>22BCE1351</title>
   <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            margin: 0;
            padding: 0;
        #left-panel {
            width: 30%;
            border-right: 1px solid black;
        iframe {
            border: none;
            width: 400px;
            height: 400px;
            text-align: center;
</head>
   <div id="left-panel">
        <h2>Audio</h2>
        <audio controls>
            <source src="love_dose.mp3" type="audio/mpeg">
            Your browser does not support the audio element.
        </audio>
        <h2>Video</h2>
        <video controls width="250">
            <source src="2024-01-09 10-37-33.mp4" type="video/mp4">
            Your browser does not support the video tag.
        </video>
        <h2>Canvas</h2>
        <canvas id="myCanvas" width="200" height="100"></canvas>
```

```
<div id="main-content">
       <h1>My House using SVG</h1>
       <iframe src="house.svg"></iframe>
   </div>
   <script>
       var c = document.getElementById("myCanvas");
       var ctx = c.getContext("2d");
       // Create gradient
       var grd = ctx.createRadialGradient(75, 50, 5, 90, 60, 100);
       grd.addColorStop(0, "red");
       grd.addColorStop(1, "white");
       // Fill with gradient
       ctx.fillStyle = grd;
       ctx.fillRect(10, 10, 150, 80);
       var circleGrd = ctx.createRadialGradient(75, 50, 5, 75, 50, 20);
       circleGrd.addColorStop(0, "#FFA500"); // Gold color
       circleGrd.addColorStop(1, "#FFA500"); // Orange color
       // Draw two overlapping circles with gradient
       ctx.fillStyle = circleGrd;
       ctx.beginPath();
       ctx.arc(75, 50, 20, 0, 2 * Math.PI);
       ctx.fill();
       ctx.beginPath();
       ctx.arc(85, 50, 20, 0, 2 * Math.PI);
       ctx.fill();
   </script>
</body>
```

Mark!