Task Report

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Task Title: Making CSS Code Compatible for Different Screens (Responsive Design)



Objective:

To learn and implement techniques in CSS that ensure a website layout adjusts smoothly and looks good on all screen sizes, including desktops, tablets, and smartphones.

Tasks Completed:

1. Studied Media Queries in CSS:

- Understood how media queries work.
- Learned the syntax:

```
@media (max-width: 768px) {
  /* responsive styles here */
```

2. Used Relative Units:

Replaced fixed pixel values with relative units like %, em, rem, vw, and vh to make layouts flexible.

3. Created a Responsive Layout:

- o Built a simple webpage layout using flexbox.
- o Applied flex-direction: column on smaller screens using media queries.

4. Tested on Multiple Screen Sizes:

- o Used browser developer tools (responsive mode) to test how the layout looks on mobile, tablet, and desktop.
- o Ensured text is readable and images scale properly.

5. Added Breakpoints:

Applied multiple breakpoints for different screen sizes (e.g., 480px, 768px, 1024px) to customize the layout for various devices.

Rey Concepts Learned:

- Responsive Design Principles
- Media Query Syntax and Use
- Fluid Layout Techniques
- **Viewport Meta Tag Importance**

- Flexbox and Grid for Layout Adjustments
- Image Responsiveness using max-width: 100%

Sample Code Used:

```
/* Default for large screens */
.container {
 display: flex;
 flex-direction: row;
/* For smaller screens */
@media (max-width: 768px) {
  .container {
   flex-direction: column;
   align-items: center;
  .header {
   font-size: 24px;
    text-align: center;
  img {
   width: 100%;
   max-width: 300px;
   height: auto;
 p {
   font-size: 16px;
    text-align: center;
}
```

Margin: 0;

```
Full program code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8"/>

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

<title>Sneha Shekhar Kalyankar | Portfolio</title>

<style>

• {
```

```
Padding: 0;
   Box-sizing: border-box;
  Font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
 }
.image{
 Width:100%;
  Height:55vh;
  Display:flex;
  Justify-content: center;
  Align-items: center;
}
.image img{
  Height: 300px;
  Width: 300px;
 Border-radius: 60%;
  Border: 5px solid #fff;
}
  Body {
  Line-height: 1.6;
   Background: #f4f4f4;
  Color: #333;
  }
  Header {
   Background: #1e90ff;
   Color: white;
   Padding: 1.5rem 0;
```

```
Text-align: center;
}
Nav ul {
 Display: flex;
Justify-content: center;
 List-style: none;
 Margin-top: 1rem;
}
Nav a {
 Color: white;
 Text-decoration: none;
 Margin: 0 1rem;
 Font-weight: bold;
}
Nav a:hover {
 Text-decoration: underline;
}
Section {
 Padding: 4rem 2rem;
 Max-width: 1000px;
 Margin: auto;
}
```

```
Text-align: center;
 Margin-bottom: 2rem;
 Color: #1e90ff;
}
#about p {
 Font-size: 1.1rem;
 Max-width: 800px;
 Margin: auto;
 Text-align: center;
}
.project-list {
 Display: grid;
 Grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
 Gap: 1.5rem;
}
.project-card {
 Background: white;
 Border-radius: 10px;
 Padding: 1.5rem;
 Box-shadow: 0 4px 8px rgba(0,0,0,0.1);
 Transition: transform 0.3s ease;
}
.project-card:hover {
 Transform: translateY(-5px);
```

```
}
.project-card h3 {
 Color: #333;
 Margin-bottom: 0.5rem;
}
.project-card p {
 Font-size: 0.95rem;
 Line-height: 1.5;
 Color: #555;
}
Form {
 Display: flex;
 Flex-direction: column;
 Max-width: 600px;
 Margin: auto;
 Background: white;
 Padding: 2rem;
 Border-radius: 10px;
 Box-shadow: 0 4px 12px rgba(0,0,0,0.1);
}
Form input,
Form textarea {
 Margin-bottom: 1rem;
 Padding: 0.8rem;
```

```
Border: 1px solid #ccc;
 Border-radius: 5px;
}
Form button {
Background: #1e90ff;
 Color: white;
 Border: none;
Padding: 0.9rem;
 Border-radius: 5px;
 Cursor: pointer;
 Font-size: 1rem;
}
Form button:hover {
 Background: #0f7ae5;
}
Footer {
 Background: #333;
 Color: white;
 Text-align: center;
 Padding: 1rem 0;
 Margin-top: 2rem;
}
@media (max-width: 600px) {
 Nav ul {
```

```
Flex-direction: column;
   Gap: 0.5rem;
  }
 }
</style>
</head>
<body>
<!—Header →
<header>
 <h1>Sneha Shekhar Kalyankar</h1>
 <nav>
  ul>
   <a href="#about">About</a>
   <a href="#projects">Projects</a>
   <a href="#contact">Contact</a>
  </nav>
</header>
<div class="image">
 <img src="C:\Users\adiik\Downloads\sneha.jpg">
</div>
<!—About Section >
<section id="about">
 <h2>About Me</h2>
 Hello! I'm Sneha Shekhar Kalyankar, born on 25 March 2005, currently pursuing
```

my 3rd Year Diploma in Computer Engineering at Y.B. Patil Polytechnic, Akurdi, Pune. I'm

passionate about exploring the world of technology and committed to continuous learning and innovation.

```
</section>
<!--Projects Section ->
<section id="projects">
 <h2>My Projects</h2>
 <div class="project-list">
  <div class="project-card">
   <h3>Library Management System</h3>
   >Developed using Java. A desktop application to manage library operations like
issue, return, and inventory control.
  </div>
  <div class="project-card">
   <h3>School Management System</h3>
   Created with Python. It helps in managing student records, attendance, and
grades efficiently.
  </div>
  <div class="project-card">
   <h3>Airline Management System</h3>
   Written in C. It handles flight bookings, passenger records, and check-in
processes.
  </div>
 </div>
</section>
<!--Contact Section ->
<section id="contact">
 <h2>Contact Me</h2>
```

```
<form>
<input type="text" placeholder="Your Name" required />
<input type="email" placeholder="Your Email" required />
<textarea placeholder="Your Message..." rows="5" required></textarea>
<button type="submit">Send Message</button>
</form>
</section>

<!--Footer ->
<footer>

<2025 Sneha Shekhar Kalyankar. All rights reserved.</p>
</footer>
</body>
```

</html>