

# Bells University of Technology / New Horizons ICT

## Resource Center

### Problem Statement: Interactive/Responsive Portfolio Website.

### Methodology for Web Programming Projects

You Have an Interview with Tech-Genius International Organization and part of the requirements for your interview is to prepare your work, projects & everything in your portfolio and the interview will be in three stages, Online, in Person & in Test. You are seeking for the position of Senior Frontend Developer in the company. Also, you have just graduated from Advanced Frontend Certification Course from New Horizons. Part of your Objectives for the preparation of your interview is to Create a dynamically and visually appealing portfolio website to showcase your skills, projects, and experiences. Since you will be needing a lot of projects to add in your portfolio, we are helping you with the following link <https://www.100jsprojects.com/projects> select two or more different projects from the link and we want to see your ability in integrating the few selected projects into your portfolio with good customization. You have two weeks to prepare your projects and two weeks for interview sessions.

Goodluck we will see you in the upcoming interview session.

#### Technologies Used (Frontend Development):

- HTML5
- CSS3 (including Flexbox and Grid for layout)
- JavaScript (for interactivity and dynamic content)

#### Project Features:

1. Homepage:
  - Display your name, a brief introduction, and a navigation menu.
  - Include a hero section with a background image and a call-to-action button.
2. About Me Section:
  - Describe your background, skills, interests, and experiences.
  - Use a responsive layout to present your content.
3. Projects Section:
  - Choose from the following link <https://www.100jsprojects.com/projects>
  - Showcase your projects in a grid or carousel format.
  - Each project should have a title, description, and image.
  - Implement filtering options (e.g., by category or technology used).
4. Skills Section:

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- Display your technical skills using icons or progress bars.
  - Organize skills into categories (e.g., Frontend, Backend, Design).
5. Experience Section:
    - List your work experience, internships, or relevant activities (use New Horizons ICT Resource Center).
    - Include details such as company name, role, and duration (use New Horizons ICT Resource Center).
  6. Contact Form:
    - Allow visitors to contact you through a responsive contact form.
    - Validate form inputs using JavaScript.
  7. Responsive Design:
    - Ensure the website is fully responsive and works well on all devices (desktop, tablet, mobile).
    - Implement CSS media queries for different screen sizes.
  8. Footer Section:
    - Show Date, Time and Copyright symbols

**N.B: Sample Code to get you started this is not complete Project but kind of giving you the whole picture on what to do.**

...

//Your html file

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Portfolio Website</title>
  <link rel="stylesheet" href="tests.css">
</head>
<body>
  <!-- Navigation Bar -->
  <nav>
    <ul>
      <li><a href="#home">Home</a></li>
      <li><a href="#about">About</a></li>
      <li><a href="#projects">Projects</a></li>
      <li><a href="#contact">Contact</a></li>
    </ul>
  </nav>

  <!-- Hero Section -->
```

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```

<section id="home" class="hero">
  <div class="hero-content">
    <h1>Welcome to My Portfolio</h1>
    <p>Showcasing my skills and projects</p>
    <a href="#projects" class="btn">View Projects</a>
  </div>
</section>

<!-- About Me Section -->
<section id="about" class="about">
  <div class="about-content">
    <h2>About Me</h2>
    <p>Describe yourself here...</p>
  </div>
</section>

<!-- Projects Section -->
<section id="projects" class="projects">
  <div class="project-grid">
    <!-- Project Cards will be populated dynamically -->
  </div>
</section>

<!-- Contact Section -->
<section id="contact" class="contact">
  <div class="contact-form">
    <h2>Contact Me</h2>
    <form id="contactForm" action="#" method="POST">
      <input type="text" name="name" placeholder="Your Name" required>
      <input type="email" name="email" placeholder="Your Email" required>
      <textarea name="message" placeholder="Your Message"
required></textarea>
      <button type="submit">Send Message</button>
    </form>
  </div>
</section>
<footer>
  <h1>Footer</h1>
</footer>
<!-- JavaScript -->
<script src="tests.js"></script>
</body>
</html>

```

//Your Css file

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```
/* Reset styles */
body, html {
    margin: 0;
    padding: 0;
    font-family: Arial, sans-serif;
}

/* Navigation Bar */
nav {
    background-color: #333;
    padding: 10px;
}

nav ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
}

nav ul li {
    display: inline;
    margin-right: 10px;
}

nav ul li a {
    color: #fff;
    text-decoration: none;
}

/* Hero Section */
.hero {
    background-image: url('hero-image.jpg');
    background-size: cover;
    color: #fff;
    padding: 100px;
    text-align: center;
}

/* About Me Section */
.about {
    padding: 50px;
}

/* Projects Section */
.projects {
```

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```

        padding: 50px;
    }

    .project-grid {
        display: grid;
        grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));
        gap: 20px;
    }

    /* Contact Section */
    .contact {
        padding: 50px;
    }

    .contact-form {
        max-width: 400px;
        margin: 0 auto;
    }

    input, textarea, button {
        display: block;
        width: 100%;
        margin-bottom: 10px;
        padding: 10px;
        border: 1px solid #ccc;
    }

    button {
        background-color: #333;
        color: #fff;
        cursor: pointer;
    }

    //Javascript file

    // Add JavaScript code here for interactivity (e.g., form validation, dynamic
    content loading)
    // Example: Handle form submission
    document.getElementById('contactForm').addEventListener('submit', function(event)
    {
        event.preventDefault();
        // Perform form validation and submission
        // Display success or error message
        alert('Fake Form submitted successfully!');
    });``

```