Code Challenge 2

In Code Challenge 2, students will be asked to create some website projects for a portfolio.

## **Personal Website**

This document outlines the specifications for a personal website designed to highlight a full-stack web developer's skills, portfolio, and contact information. The website will follow a single-page layout with multiple sections to provide a seamless, user-friendly experience.

### **Sections**

Each section is crafted to showcase the developer's skills and projects effectively, helping recruiters or clients understand the developer's expertise.

### Hero Section

The hero section is the first element visitors see, serving as an introduction to the developer. This section should include:

* **Developer’s Name**: Full name or professional alias.
* **Job Title**: E.g., "Full-Stack Web Developer" or "Software Engineer."
* **Professional Photo or Avatar**: A photo or avatar that reflects a professional image.
* **Brief Introduction**: A short description emphasizing core skills or services, such as "Building scalable and high-performance web solutions for your business needs."
* **Call-to-Action (CTA)**: Button to direct visitors, such as “View Portfolio” or “Contact Me.”

### About Me Section

This section provides a more detailed description of the developer’s background and expertise:

* **Brief Bio**: A short background, interest in web development, and work experience.
* **Core Skills**: A summary of main skills, e.g., JavaScript, React, Node.js, Python, etc.
* **Key Values**: Highlight core work principles such as timeliness, attention to detail, and clear communication.

### Skills Section

The skills section highlights the developer's technical abilities across various areas of web development. Recommended elements include:

* **Front-End Skills**: Technologies like HTML, CSS, JavaScript, React, Angular, etc.
* **Back-End Skills**: Frameworks and languages like Node.js, Express, Django, or Ruby on Rails.
* **DevOps & Tools**: Tools used in development, such as Docker, Git, Jenkins, AWS, or CI/CD solutions.

### Portfolio Section

The portfolio showcases projects that demonstrate the developer’s expertise.

**Portfolio Content Writing Guidelines** For a clear and compelling portfolio, follow these guidelines:

1. **Describe the Project Briefly**: Summarize the project’s purpose, audience, and context.
2. **Use the STAR Method (Situation, Task, Action, Result)**:
   * **Situation**: Describe the project's background and purpose.
   * **Task**: Outline the primary goals or responsibilities.
   * **Action**: Explain the steps you took, tools used, and any challenges.
   * **Result**: Share the outcomes, including performance metrics, client satisfaction, or personal insights.
3. **Include Relevant Technologies**: Mention the main technologies or frameworks used.
4. **Visuals**: Add screenshots or links to the project where applicable.

**Portfolio Example Using STAR Method**:

* **Project Title**: "E-commerce Platform for XYZ Retail"
* **Technologies**: React, Node.js, MongoDB, AWS

#### **Content Example for Portfolio Detail Page** :

**Situation**:  
XYZ Retail, an established retail company, sought to expand into e-commerce to reach a wider audience and streamline its sales processes. They needed a scalable, user-friendly platform to support both desktop and mobile users with features like product browsing, user reviews, secure checkout, and real-time inventory updates.

**Task**:  
I was responsible for building the front-end and back-end components of the platform, ensuring seamless integration with the client’s inventory and payment systems. The project goal was to create an efficient, high-performing application with a smooth user experience.

**Action**:  
Using **React** for the front-end, I designed a responsive, intuitive UI focused on user engagement and easy navigation. On the back end, I developed RESTful APIs with **Node.js** and **MongoDB** for data management. Additionally, I integrated the platform with **AWS** to optimize loading times and set up a CI/CD pipeline for faster deployment and testing. I worked closely with designers and QA to address usability and accessibility standards.

**Result**:  
The project was completed on time, leading to a 35% increase in online sales within the first three months. User feedback highlighted the site's speed and ease of use, and the client reported a substantial reduction in manual inventory management tasks.

### Experience Section

Summarizes the developer’s professional work history, both freelance and full-time. Include:

* **Job Titles and Companies**: List job titles and companies.
* **Timeline**: Duration of work for each position (e.g., 2021 - Present).
* **Responsibilities**: Key responsibilities, emphasizing roles relevant to full-stack development.

### Testimonials Section

Showcase feedback from clients or colleagues to add credibility. Recommended elements:

* **Client Testimonials**: Short quotes from clients on the quality of work or impact.
* **Photos or Names of Clients**: If permitted, include the client’s photo or name.

### Contact Section

Provide a way for visitors to reach out directly:

* **Contact Form**: Simple form for inquiries.
* **Email and Social Links**: Email and links to LinkedIn, GitHub, or other professional platforms.
* **CTA Button**: Buttons like "Send Message" or "Contact Me."

Tech stack : ReactJS, Vite, Framework CSS (Tailwind / Chakra UI)

Reference design :

* [https://www.behance.net/gallery/144641409/Personal-Portfolio-Web-Design?tracking\_source=search\_projects|developer+portfolio&l=3](https://www.behance.net/gallery/144641409/Personal-Portfolio-Web-Design?tracking_source=search_projects%7Cdeveloper+portfolio&l=3)
* [https://www.behance.net/gallery/210020765/CV-Website-Portfolio-for-a-Full-Stack-Developer?tracking\_source=search\_projects|developer+portfolio&l=4](https://www.behance.net/gallery/210020765/CV-Website-Portfolio-for-a-Full-Stack-Developer?tracking_source=search_projects%7Cdeveloper+portfolio&l=4)
* [https://www.behance.net/gallery/182522953/SinanTokmak-Web-Developer-Portfolio-Website-Design?tracking\_source=search\_projects|developer+portfolio&l=10](https://www.behance.net/gallery/182522953/SinanTokmak-Web-Developer-Portfolio-Website-Design?tracking_source=search_projects%7Cdeveloper+portfolio&l=10)

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## **Company Profile**

This document outlines the specifications for a **Company Profile Website Project**, which must consist of at least **six pages**: **Home**, **About Us**, **Services**, **Teams**, **Blog List**, and **Create Blog**.

The goal is to develop a user-friendly, engaging, and informative website **by duplicating an existing company profile website from a well-known brand, or by redesigning and improving an existing company’s website into a better version.**

The final result should maintain or enhance the brand identity and usability of the original reference.

### **Homepage**

The homepage should serve as the main landing page for the website and should provide a brief overview of the company. It should include the following elements:

* **Hero section**: Large banner featuring a high-quality image or video representing the company's brand, along with a brief overview and mission statement.
* **Company overview**: More detailed information about the company’s background, team, and culture.
* **Products or services**: Highlight the company's offerings with brief descriptions and calls to action.
* **Testimonials**: Show quotes from satisfied customers to build trust and credibility.
* **Company logo**: Displayed prominently in the header or navigation bar.
* **Company tagline**: A brief, memorable phrase capturing the brand’s essence.
* **Navigation links**:  
  + Link to the **About Us** page
  + Link to the **Services** page
  + Link to the **Blog List** page

### **About Us Page**

This page should provide in-depth information about the company:

* **Company history**: Background, founding story, and milestones.
* **Team**: Introduction of team members, including names, roles, and brief bios.
* **Culture**: Description of workplace values and environment.

### **Products / Services Page**

This page should offer a comprehensive view of the company’s offerings:

* Clear, concise descriptions of each product or service.
* Pricing details (if applicable).
* Testimonials from clients endorsing each offering.

### **Teams Page**

A page that highlights the company’s people and their expertise:

* Fetch and render user data from<https://randomuser.me> to simulate a dynamic team listing.
* Show user photos, names, roles, and short bios.

### **Blog List Page**

This page lists all blog articles available on the website. It should include:

* Blog post title, summary/excerpt, author, and publish date.
* A link or button to view the full blog post (if applicable).
* Display blogs in a grid or list layout for readability.
* Navigation or filtering (optional) to help users find relevant articles.

### **Create Blog Page**

This page allows authorized users to create new blog posts. Requirements:

* **User Authentication**: Only logged-in users can access and use this page.
* **Form for Blog Creation**: Fields should include title, content (rich text or Markdown), and optionally tags or categories.
* After submission, the blog should be stored and appear in the **Blog List** page.
* If the user is not logged in, redirect to the **Login** page.

### **Authentication**

* Implement a login system to secure access to blog creation.
* Optional: Admin role to moderate, edit, or delete blog posts.

Tech stack : ReactJS, NextJS, Framework CSS (Tailwind / Chakra UI / etc), Headless CMS

## 

# Additional Considerations

* The website should be designed to be responsive and mobile-friendly.
* The website should use high-quality images and videos throughout.
* The website should be easy to navigate with a clear and consistent layout.

# Scoring

**Assessment is conducted as follows:**

* Each project will be reviewed at [PageSpeed Insights](https://pagespeed.web.dev/).
* The results will then be used for individual project evaluation.
* Conduct assessments per project based on the following criteria:
  + Average score for each page (Performance, Accessibility, Best Practices, and SEO) per project.
  + Lecturer Score per Project:
    - Implementation of state management (state/context/Redux/browser storage) - **10 points**
    - Use of CSS frameworks and UI slicing - **10 points**
    - Responsive layout for desktop and mobile views - **10 points**
    - Integration and display of content from the headless CMS, Contentful or feature improvement - **20 points**
* **Total Score per Project = Avg Performance Score (50%) + Lecturer Score**

### Scoring form lecture evaluation for All Projects

| Score/Point | Lecturer Evaluations |
| --- | --- |
| A = 10 | Perfect performance from the feature |
| B = 7.5 | Good performance from the feature and some minor bug |
| C = 5 | Good progress but need improvement on several points |
| D = 2.5 | Nice try and need explore |
| E = 0 | Bad performance or not implement |