Responsive Portfolio Website

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Course: UI/UX Design Fundamentals

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Date of Submission: 13/08/2025

Abstract

This project involves the design and development of a responsive personal portfolio website using only HTML and CSS. The website aims to showcase the user's skills, projects, resume, and contact form in an organized and visually appealing manner. The primary objective is to implement a clean and user-friendly interface that adapts seamlessly to desktop, tablet, and mobile devices. HTML5 semantic elements ensure structure and accessibility, while CSS3 is used for layout, styling, and responsiveness. The final output serves as a professional online portfolio suitable for freelancers and students.

Objectives

• Design a user-friendly interface using modern UI principles
• Develop a fully responsive layout using only HTML and CSS
• Implement structured HTML5 semantic elements
• Apply CSS styling for branding, layout, and responsive behavior
• Ensure accessibility and readability across devices

Scope of the Project

• Focused on front-end design only
• No JavaScript or server-side integration
• Intended for desktop, tablet, and mobile viewports
• Used only open-source tools and pure code (no libraries)

Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout management
VS Code	Code editor
Chrome DevTools	Testing and debugging

HTML Structure Overview

• Used semantic tags: <header>, <nav>, <main>, <section>, <footer>
• Structured into reusable sections: About, Projects, Contact
• Navigation menu using <ul> and anchor links for smooth scrolling

CSS Styling Strategy

• Used external CSS file (style.css)
• Organized with comments and sections
• Techniques used:
  o Flexbox and Grid for layout
  o Media Queries for responsiveness
  o CSS Variables for theme customization
  o Hover effects and transitions
  o Mobile-first design approach

Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes
Smooth Navigation	Fixed top nav with anchor links
Project Cards	Flex-based layout with hover effects
Contact Form (non-functional)	Placeholder layout for inputs and button
Accessible Fonts & Colors	High contrast and readable typography

Challenges Faced & Solutions

Challenge	Solution
Overlapping elements on small screens	Used media queries to stack elements
Difficulty aligning items using float	Shifted to Flexbox and Grid
Typography scaling issue	Used relative units (em/rem) instead of px

Outcome

• Achieved a clean, consistent, and visually engaging front-end layout
• All key components function as intended using just HTML and CSS
• Learned about layout responsiveness and UI hierarchy in depth

Future Enhancements

• Add JavaScript for interactivity (form validation, dynamic content)
• Integrate animations or transitions

• Backend integration for form submission
• Theme toggler (light/dark mode)

Sample Code

```
<!-- Animated Background -->

  <div class="background-container">

    <div class="blob blob1"></div>

    <div class="blob blob2"></div>

    <div class="blob blob3"></div>

    <div id="particles-container"></div>

  </div>


  <!-- Create multiple particles -->

<div class="particles">

  <span style="left: 10%; animation-delay: 0s;"></span>

  <span style="left: 25%; animation-delay: 2s;"></span>

  <span style="left: 50%; animation-delay: 4s;"></span>

  <span style="left: 75%; animation-delay: 1s;"></span>

  <span style="left: 90%; animation-delay: 3s;"></span>

  <span style="left: 10%; animation-delay: 0s;"></span>

  <span style="left: 25%; animation-delay: 2s;"></span>

  <span style="left: 50%; animation-delay: 4s;"></span>

  <span style="left: 75%; animation-delay: 1s;"></span>

  <span style="left: 90%; animation-delay: 3s;"></span>

</div>


/* --- Hero Section --- */
```

```css
.hero-section {

  min-height: 100vh;

  display: flex;

  align-items: center;

  padding-top: 20px;

}


.hero-content {

  display: flex;

  justify-content: space-between;

  align-items: center;

  gap: 40px;

}


.hero-text {

  max-width: 50%;

}


.info-badge {

  display: inline-flex;

  align-items: center;

  gap: 8px;

  padding: 6px 12px;

  background-color: #eef2ff;

  color: var(--primary-color);

  border-radius: 999px;
```
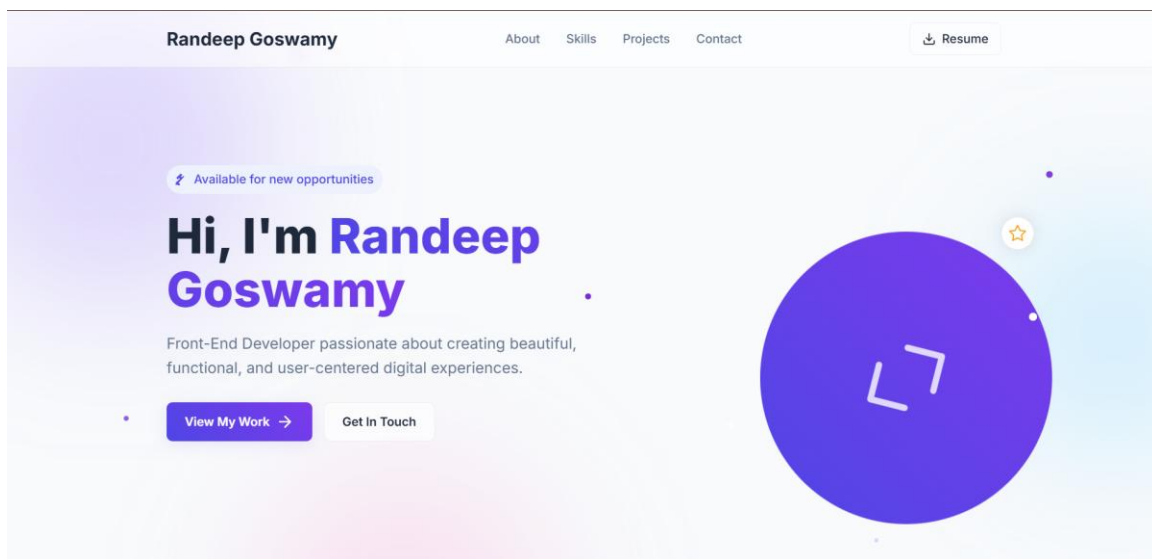
```
   font-weight: 500;

   margin-bottom: 20px;

}


.info-badge .icon {

    width: 16px;

    height: 16px;

    color: var(--primary-color);

}
```
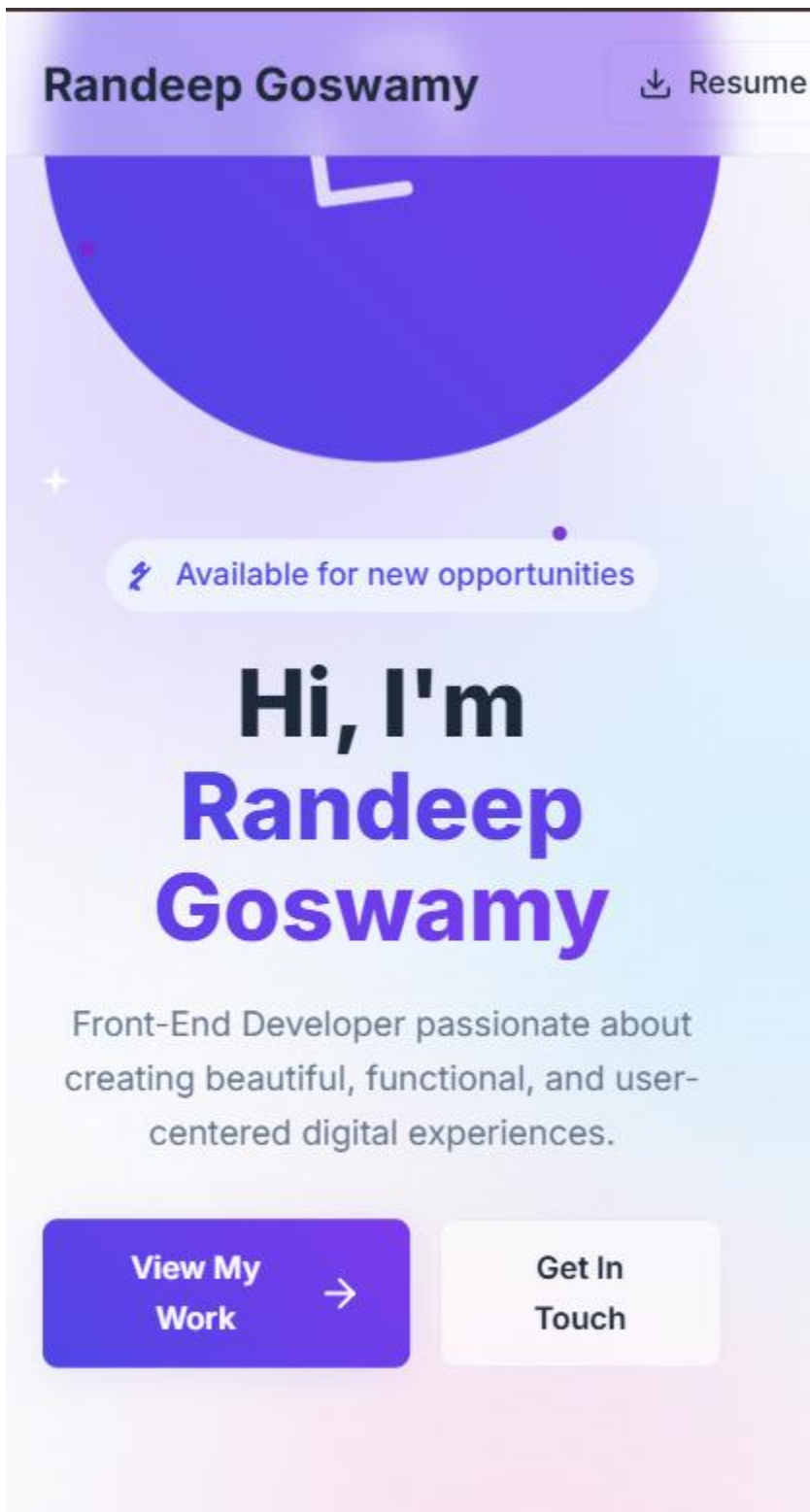
Screenshots Of The Final Output

Home Page :

Home Page with dimensions of IPHONE SE :

About Page:

About Me

I'm a passionate Front-End Developer with expertise in modern web technologies. I love creating intuitive and visually appealing user interfaces that provide exceptional user experiences.

With a strong foundation in React, JavaScript, HTML, CSS, and Tailwind CSS, I bring ideas to life through clean, efficient, and scalable code.

📍 Available Worldwide

✉️ Available for Work

Skills page:

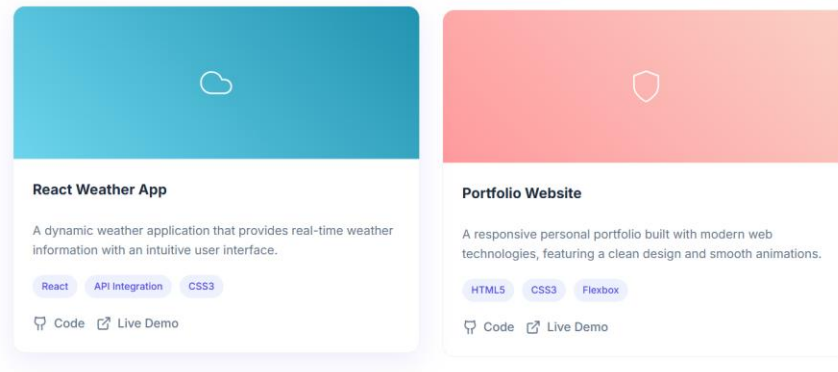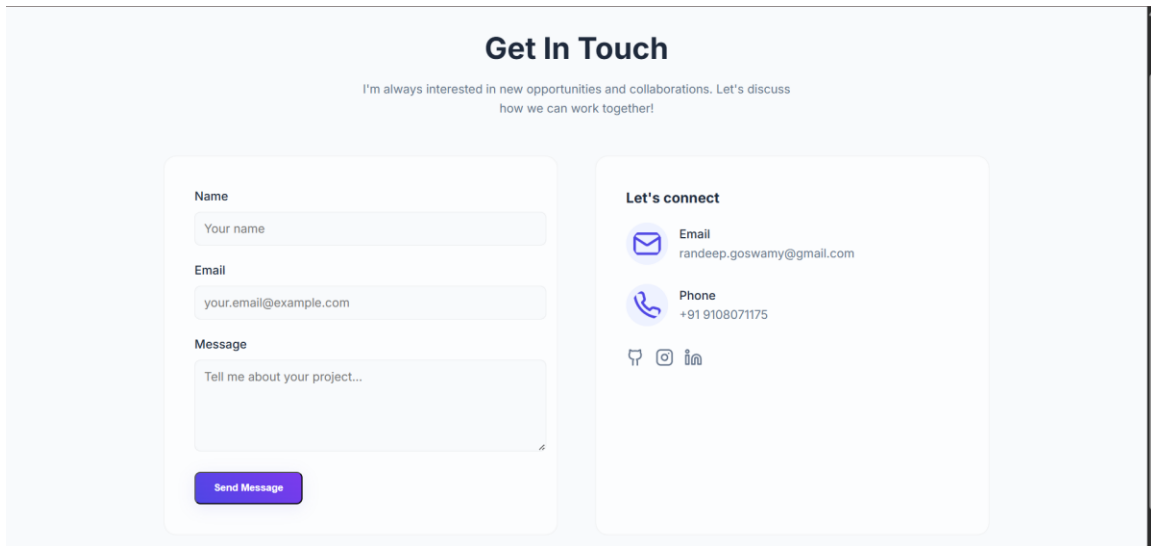## Skills & Technologies

React	JavaScript	HTML5 & CSS3	Tailwind CSS
Figma	Git & GitHub		

Projects page:

Featured Projects

React Weather App

A dynamic weather application that provides real-time weather information with an intuitive user interface.

React   API Integration   CSS3

⚲ Code   ⬈ Live Demo

Portfolio Website

A responsive personal portfolio built with modern web technologies, featuring a clean design and smooth animations.

HTML5   CSS3   Flexbox

⚲ Code   ⬈ Live Demo

Contact page:

Get In Touch

I'm always interested in new opportunities and collaborations. Let's discuss how we can work together!

Name

Your name

Email

your.email@example.com

Message

Tell me about your project...

Send Message

Let's connect

Email
randeep.goswamy@gmail.com

Phone
+91 9108071175

Conclusion

This personal portfolio website showcases the user's skills, projects, resume, and contact form. This mini project helped strengthen front-end development skills using only HTML and CSS. It provided practical insights into responsive design, layout structuring, and user interface aesthetics, along with hands-on experience in user-centric web design.

Refreneces

L&T LMS : https://learn.lntedutech.com/Landing/MyCourses

Geeks For Geeks : https://www.geeksforgeeks.org

MDN : https://developer.mozilla.org/en-US