HTML Portfolio Code Explanation

This is a comprehensive portfolio website for Momin Mohammed Sameed, an aspiring web developer. Let me break down the code section by section:

1. DOCTYPE and HTML Structure

html

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<!DOCTYPE html>

<html lang="en">

Run HTML

* <!DOCTYPE html> declares this as an HTML5 document
* <html> is the root element with language set to English

2. Head Section

html

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<head>

<meta charset="UTF-8">

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

<title>Momin Mohammed Sameed - Portfolio</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

Run HTML

* Meta tags for character encoding and responsive viewport
* Title for the browser tab
* Link to Font Awesome for icons

3. CSS Styles

The extensive CSS is divided into logical sections:

Root Variables

css

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:root {

--primary-color: #3498db;

--secondary-color: #2c3e50;

--accent-color: #e74c3c;

--light-color: #ecf0f1;

--dark-color: #2c3e50;

}

* CSS variables for consistent color scheme throughout the site

Global Styles

css

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\* {

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

}

* Reset default margins/paddings and set box-sizing
* Default font family

Header Styles

css

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header {

background-color: var(--secondary-color);

color: white;

padding: 20px 0;

position: fixed;

width: 100%;

top: 0;

z-index: 1000;

box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);

}

* Fixed header that stays at top when scrolling
* Shadow effect for depth
* High z-index to ensure it stays above other content

Hero Section

css

Copy

.hero {

height: 100vh;

display: flex;

align-items: center;

background: linear-gradient(135deg, var(--secondary-color), var(--primary-color));

color: white;

text-align: center;

padding-top: 80px;

}

* Full viewport height section
* Gradient background
* Centered content with padding to account for fixed header

About Section

css

Copy

.about-content {

display: flex;

align-items: center;

gap: 50px;

}

* Flex layout for text and image side by side
* Gap between elements for spacing

Services Section

css

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.services-grid {

display: grid;

grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));

gap: 30px;

}

* Responsive grid layout for service cards
* Cards will wrap and resize based on viewport

Skills Section

css

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.skill-bar {

height: 10px;

background-color: #ddd;

border-radius: 5px;

overflow: hidden;

}

* Visual representation of skill levels
* Animated progress bars

Animations

css

Copy

@keyframes fadeIn {

from { opacity: 0; transform: translateY(20px); }

to { opacity: 1; transform: translateY(0); }

}

* Fade-in animation for elements as they appear

Responsive Design

css

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@media (max-width: 768px) {

/\* Styles for tablets and smaller \*/

}

@media (max-width: 480px) {

/\* Styles for mobile phones \*/

}

* Media queries for different screen sizes
* Adjusts layout and typography for mobile devices

4. HTML Body Structure

Header/Navigation

html

Copy

<header>

<div class="container header-container">

<a href="#" class="logo">

<div class="logo-icon">

<i class="fas fa-code"></i>

</div>

<span>Portfolio</span>

</a>

<nav>

<ul>

<li><a href="#home">Home</a></li>

<!-- Other nav items -->

</ul>

</nav>

</div>

</header>

Run HTML

* Logo with animated code icon
* Navigation menu with smooth scroll links

Hero Section

html

Copy

<section class="hero" id="home">

<div class="container">

<div class="hero-content">

<h1>Hello, I'm Momin Mohammed Sameed</h1>

<h2>Aspiring Web Developer | Passionate Problem Solver | Creative Thinker</h2>

<!-- Content -->

<a href="#contact" class="btn">Get In Touch</a>

</div>

</div>

</section>

Run HTML

* Introduction with name and tagline
* Call-to-action button

About Section

html

Copy

<section class="section" id="about">

<div class="about-content">

<div class="about-text">

<h3>Hi, I'm Momin Mohammed Sameed</h3>

<!-- Personal description -->

</div>

<div class="about-image">

<img src="sam1.jpg" alt="Momin Mohammed Sameed" class="profile-img">

</div>

</div>

</section>

Run HTML

* Personal introduction
* Profile image with hover effect

Services Section

html

Copy

<section class="section services" id="services">

<div class="services-grid">

<div class="service-card">

<div class="service-icon">

<i class="fas fa-laptop-code"></i>

</div>

<h3>Web Design & Front-End Development</h3>

<p>Service description</p>

</div>

<!-- Other service cards -->

</div>

</section>

Run HTML

* Grid of service offerings with icons
* Hover effects on cards

Skills Section

html

Copy

<section class="section" id="skills">

<div class="skills-container">

<div class="skill-item">

<div class="skill-info">

<span>HTML</span>

<span>78%</span>

</div>

<div class="skill-bar">

<div class="skill-progress" style="width: 78%"></div>

</div>

</div>

<!-- Other skills -->

</div>

</section>

Run HTML

* Visual representation of skill levels
* Animated progress bars

Team Section

html

Copy

<section class="section team" id="team">

<div class="team-grid">

<div class="team-card">

<img src="mazhar.jpg" alt="Team Member" class="team-img">

<h3>Team Member 1</h3>

<p>Web Developer</p>

<div class="social-links">

<!-- Social media icons -->

</div>

</div>

<!-- Other team members -->

</div>

</section>

Run HTML

* Team member cards with images
* Social media links

Contact Section

html

Copy

<section class="section" id="contact">

<div class="contact-container">

<div class="contact-info">

<h3>Get In Touch</h3>

<div class="info-item">

<i class="fas fa-user"></i>

<span>Name: Momin Mohammed Sameed</span>

</div>

<!-- Other contact info -->

</div>

<div class="contact-form">

<form>

<!-- Form inputs -->

<button type="submit" class="btn">Send Message</button>

</form>

</div>

</div>

</section>

Run HTML

* Contact information
* Functional contact form

Footer

html

Copy

<footer>

<div class="footer-links">

<!-- Navigation links -->

</div>

<div class="copyright">

&copy; 2025 Momin Mohammed Sameed. All Rights Reserved.

</div>

</footer>

Run HTML

* Quick navigation
* Copyright information

5. JavaScript

Smooth Scrolling

javascript

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document.querySelectorAll('a[href^="#"]').forEach(anchor => {

anchor.addEventListener('click', function (e) {

e.preventDefault();

document.querySelector(this.getAttribute('href')).scrollIntoView({

behavior: 'smooth'

});

});

});

* Makes navigation links scroll smoothly to sections

Skill Bar Animation

javascript

Copy

function animateSkills() {

skillBars.forEach(bar => {

const width = bar.style.width;

bar.style.width = '0';

setTimeout(() => {

bar.style.width = width;

}, 100);

});

}

* Animates skill bars when they come into view

Intersection Observer

javascript

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const observer = new IntersectionObserver((entries) => {

entries.forEach(entry => {

if (entry.isIntersecting) {

if (entry.target.id === 'skills') {

animateSkills();

}

entry.target.classList.add('animated');

observer.unobserve(entry.target);

}

});

}, observerOptions);

* Triggers animations when elements scroll into view

3D Logo Effect

javascript

Copy

document.addEventListener('mousemove', (e) => {

const x = e.clientX / window.innerWidth;

const y = e.clientY / window.innerHeight;

logoIcon.style.transform = `rotateY(${x \* 60}deg) rotateX(${-y \* 60}deg)`;

});

* Creates a 3D effect on the logo based on mouse position

Key Features

1. **Responsive Design**: Works on all device sizes
2. **Modern UI**: Clean, professional appearance with animations
3. **Interactive Elements**: Hover effects, smooth scrolling
4. **Performance Optimized**: Efficient CSS and JavaScript
5. **Accessible**: Semantic HTML structure
6. **Maintainable**: CSS variables for easy theming

This portfolio showcases Momin's skills as a web developer while providing a professional platform to present his work and services.

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