

# Professional Portfolio Website - Mohammad Zaid

## Project Overview

This is a portfolio website built using HTML,CSS and works on Ipad and mobile phones as well. The website has testimonials, projects, get in touch and skills section.

## Semantic HTML Elements Used

### 1. Header (<header>)

- Contains the main navigation and website logo
- Fixed positioning for persistent navigation
- Includes semantic navigation structure

### 2. Navigation (<nav>)

- Semantic navigation element with unordered list
- Responsive navigation menu
- Smooth scroll navigation links

### 3. Main (<main>)

- Primary content container
- Contains all the main sections of the website

### 4. Section (<section>)

- **Hero Section:** Introduction and get in touch button
- **About Section:** Tells about me in more detail
- **Skills Section:** Displays the skills in a table
- **Projects Section:** Displays projects in grid form with brief description
- **Testimonials Section:** Testimonials from the employers
- **Contact Section:** Asks for the credentials to get in touch

## 5. Article (<article>)

- Used in the about section for biography

## 6. Aside (<aside>)

- Used for the connect with me section

## 7. Footer (<footer>)

- Contains the copyright information

# HTML Controls and Interactive Elements

## 1. Navigation Menu

- Unordered list (<ul>) with navigation links
- Responsive navigation for different screen sizes
- Functionality added for smooth scrolling

## 2. Table (<table>)

- **Skills Table:** Displays technical skills, experience, and proficiency levels
- **CSS Selectors Used:**
  - `.skills-table th` - Header styling with background color
  - `.skills-table tr:nth-child(even)` - Alternating row colors
  - `.skills-table tr:hover` - Interactive hover effects
  - `.skills-table td` - Cell padding and borders

## 3. Form (<form>)

- **Contact Form** with the following inputs:
  - Name which has text input (<input type="text">)
  - Email input (<input type="email">)
  - Subject which has text input
  - Text area for message (<textarea>)
- Form validation with required attributes
- JavaScript used for form submission handling

## 4. Buttons (<button>)

- **CTA Button:** "Get In Touch" call-to-action
- **Submit Button:** Form submission with hover effects

# Responsive UI Components

## 1. Testimonials Section

- **Flexbox Properties Used:**
  - `display: flex`
  - `flex-direction: column`
  - `align-items: center`
  - `gap: 2rem`
- **Interactive Features:**
  - Hover effects used with `transform: translateX(10px)`
  - Animations applied which is box shadow
  - Layout that changes for mobile and ipad as well

## 2. Image Gallery (Projects)

- **Flexbox Properties Used:**
  - `display: flex`
  - `flex-wrap: wrap`
  - `justify-content: center`
  - `align-items: stretch`
  - `flex-grow: 1`
  - `flex-basis: 300px`
- **Interactive Features:**
  - Hover effects with `transform: translateY(-10px)`
  - Dynamic shadow effects
  - Responsive grid layout

# CSS Features and Techniques

## 1. Flexbox Implementation

- **Properties Used:**
  - `align-items`: Testimonials and gallery use center alignment
  - `justify-content`: Distribution of content in navigation and gallery

- `flex-direction`: Testimonials have column layout
- `flex-grow`: Gallery items have flexible growth
- `flex-wrap`: Used for responsiveness for mobile and Ipad

## 2. CSS Selectors for Table Styling

- **Type Selector**: `table` - Styling the basic table
- **Class Selector**: `.skills-table` - Styling the main table
- **Descendant Selector**: `.skills-table th` - Style the header
- **Pseudo-class Selectors**:
  - `:nth-child(even)` - Alternative row colors
  - `:hover` - On hover effects
  - `:focus` - Form input focus states

## 3. Advanced CSS Features

- **Gradients**: Background linear gradients
- **Box Shadows**: Shadow effects used for depth
- **Transitions**: Hover effects which have smooth animation

# Responsive Design Implementation

## 1. Media Queries

- **iPad (768px and below)**:
  - Navigation layout made flexible
  - Font size adjusted
  - Column layout for testimonials
  - Responsive gallery layout
- **Mobile (375px and below)**:
  - Compact navigation
  - Smaller typography
  - Single column layout
  - Touch-friendly interactive elements

## 2. Responsive Techniques

- Flexible units (rem, %, viewport units)
- Mobile-first approach considerations
- Flexible image and content scaling
- Button made touch friendly

# **Additional Features**

## **1. Favicon**

- Custom SVG favicon with developer initials
- Base64 encoded for inline embedding

## **2. JavaScript Functionality**

- Form submission handling
- Smooth scrolling navigation

## **3. Accessibility Features**

- Semantic HTML structure
- Proper heading hierarchy
- Alt text for images
- Focus states for interactive elements
- Color contrast compliance

## **4. Performance Optimizations**

- Inline CSS (external CSS structure maintained)
- Optimized images with proper sizing
- Efficient animations with CSS transforms
- Minimal JavaScript for better performance