

Document Object Model (DOM):

The Document Object Model (DOM) is a programming interface that represents an HTML document as a tree structure. This structure allows JavaScript to interact with and manipulate elements of the document, such as changing their content, attributes, or styles.

DOM TREE STRUCTURE FOR PORTFOLIO WEBSITE

1. '<html>' (Root Element)

Children:

- i. '<head>'
- ii. '<body>'

2. '<head>' (Parent: '<html>')

Children:

- i. '<meta charset="UTF-8">'
- ii. '<meta name="viewport" content="width=device-width, initial scale=1.0">'
- iii. '<title>'
- iv. '<link>'

3. '<body>' (Parent: '<html>')

Children:

- i. '<nav>'
- ii. '<header>'
- iii. '<section id="about">'
- iv. '<main id="portfolio">'
- v. '<section id="services">'
- vi. '<section id="contact">'

DETAILED BREAKDOWN

<nav> (Parent: <body>)

- Children:
 - <div class="logo">
 - Child:
 - <div class="nav-menu">
 - Child:
 - Children:
 - Each has a child: <a>

<header> (Parent: <body>)

- Children:
 - <h1> (Main heading)
 - <p> (Subheading)

<section id="about"> (Parent: <body>)

- Children:
 - <h2> (Section heading)
 - <p> (Description text)

<main id="portfolio"> (Parent: <body>)

- Children:
 - Multiple <div> elements (project cards)
 - Each <div> (project card):
 - Children:
 - (Project image)
 - <div> (Project description)
 - Children: <h2> (Project title), <p> (Project description)

<section id="services"> (Parent: <body>)

- Children:
 - <h2>
 - <p>
 - <div>
 - Children: Multiple <div> elements
 - Each <div> (service card):
 - Child: <div> (Service description)
 - Children: <h3> (Service title), <p> (Service description)

<section id="contact"> (Parent: <body>)

- Children:
 - <h2> (Section heading)
 - <p> (Introductory text)
 - <div> (Contact details container)
 - Children: <a> elements (3 links: email, phone, website)

<footer> (Parent: <body>)

- Children:
 - <p> (Copyright text)