

### EREX TECHNOLOGY FRONTEND WEB DEVELOPMENT LESSONS HANDOUT

### 4 Weeks Frontend Web Development Note

### **✓** Week 1: HTML – The Structure of the Web

### Theory:

- What is HTML? HyperText Markup Language the backbone of every webpage.
- Basic HTML Document Structure: <!DOCTYPE html>, <html>, <head>, <body>
- Headings (<h1>-<h6>), Paragraphs (), Line Breaks (<br>).
- Lists: Ordered () & Unordered ().
- Links (<a>), Images (<img>), Tables () and Forms (<form>).
- Semantic HTML: <header>, <nav>, <main>, <footer>.

### NOTE:

### 1. What is HTML?

**HTML (HyperText Markup Language)** is the **standard language used to create webpages**. It tells the web browser how to display text, images, links, videos, and other content on a website.

### **♦** Key Features:

- Describes the **structure** of a webpage.
- Uses tags/elements like , <h1>, <a>, etc.
- Works with CSS (for styling) and JavaScript (for interactivity).

### **✓** Real-World Applications:

- Building personal blogs, portfolios, or company websites.
- Structuring content for online articles or documentation.
- Used in all web platforms—social media, news sites, e-commerce.

### **2. Basic HTML Document Structure**

Every HTML document follows a basic structure to ensure browsers understand and render it correctly.

### **Example:**

html

CopyEdit

```
<!DOCTYPE html> <!-- Declares the document type -->
```

<html lang="en">

<head>

<meta charset="UTF-8">

<title>My First Webpage</title>

</head>

<body>

<h1>Hello, World!</h1>

This is my first webpage.

</body>

</html>

### ◆ Tags Explained:

- <!DOCTYPE html>: Declares HTML5 document.
- <html>: The root element of the webpage.
- <head>: Contains metadata (title, styles, character encoding).
- <body>: Contains the content visible on the webpage.

### **3.** Headings, Paragraphs, and Line Breaks

# ♦ Headings <h1> to <h6>: Used to define headings and subheadings. html CopyEdit <h1>Main Title</h1> <h2>Subheading</h2> <h3>Smaller Subheading</h3> ♦ Paragraph :

Defines blocks of text.

html

CopyEdit

This is a paragraph of text explaining something important.

### **♦** Line Break <br>:

Adds a line break (new line) inside text.

html

CopyEdit

This is line one.This is line two.

### **✓** Applications:

- Article formatting
- Blog posts
- Instructional content

### **4. Lists: Ordered & Unordered**

### Ordered List :

Items appear in numbered order.

html

CopyEdit

Wake up

Brush teeth

Eat breakfast

```
♦ Unordered List :
Items appear with bullets.
html
CopyEdit
HTML
CSS
JavaScript
✓ Applications:
• Step-by-step tutorials

    Feature listings

• Navigation menus (commonly styled with CSS)
5. Links, Images, Tables, and Forms
Links <a>:
Used to navigate between pages or websites.
html
CopyEdit
<a href="https://www.example.com">Visit Example Site</a>
♦ Images <img>:
Used to embed images.
html
CopyEdit
<img src="image.jpg" alt="Description of image" width="300">
Tables :
Display data in rows and columns.
html
CopyEdit
```

Collect **user input** like login, signups, feedback.

html

CopyEdit

```
<form action="/submit" method="post">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required>
  <br>
  <input type="submit" value="Submit">
  </form>
```

### Applications:

- Navigation between pages (links)
- Portfolios, news sites (images)
- Data dashboards (tables)
- Contact forms, logins, surveys (forms)

### **6. Semantic HTML Elements**

Semantic HTML gives **meaning to the structure** of a webpage, helping browsers and search engines understand content better.

### **Examples:**

html

CopyEdit

<header>

```
<h1>My Website</h1>
</header>
<nav>
<a href="/">Home</a>
 <a href="/about">About</a>
</nav>
<main>
<article>
 <h2>Article Title</h2>
 This is a blog post.
</article>
</main>
<footer>
© 2025 My Website
</footer>
Common Semantic Tags:
  <header>: Top section (logo, navigation).
  <nav>: Navigation links.
```

- <main>: Primary content of the page.
- <article>: Independent piece of content (like blog post).
- <section>: Group related content together.
- <footer>: Bottom of the page (copyright, links).

- Improves **SEO** (Search Engine Optimization).
- Easier for screen readers  $\rightarrow$  better accessibility.
- More organized code for collaboration.

### Summary Table

Feature	HTML Tag(s)	Example Use Case
Webpage Structure	, <html>, <head>, <body></body></head></html>	Basic webpage layout
Headings & Paragraphs	<h1>-<h6>, ,</h6></h1>	Articles, blogs, product descriptions
Lists	<ol>, <ul>, <li>&gt;</li></ul></ol>	Instructions, menus, feature lists
Links & Images	<a>, <img/></a>	Navigation, galleries, logos
Tables & Forms	, <form></form>	Surveys, admin panels, e- commerce forms
Semantic Structure	<header>, <main>, <footer>, <nav></nav></footer></main></header>	Professional, SEO-friendly website structure

### Practical:

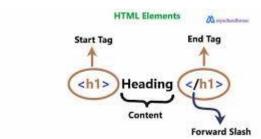
- Create a simple profile page:
  - o Add your name, a photo, a short bio, and links to your social media.
- Create a list of your hobbies using and .
- Add a simple contact form.

### **Visuals:**

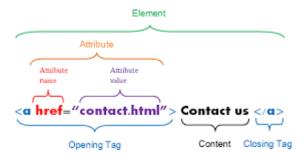
• Screenshot of a basic HTML page.

```
| Comparison of the provided by the provided b
```

Diagram showing how elements are nested.



• Photo: Tags vs Content vs Attributes explained.



### ✓ Week 2: CSS – Styling the Web

### **Theory:**

- What is CSS? Cascading Style Sheets for styling.
- How to link CSS to HTML (<link> tag in <head>).
- CSS Selectors: element, class (.class), ID (#id).
- Colors, Fonts, Text Alignment.
- Box Model: Margin, Border, Padding, Content.
- Display: block, inline, inline-block.
- Flexbox basics: display: flex;.

### Note:

### 1. What is CSS?

CSS (Cascading Style Sheets) is a language used to style and layout HTML elements on a webpage.

### **♦** Key Features:

- Controls colors, fonts, spacing, alignment, layout, and responsive design.
- Makes webpages attractive, readable, and user-friendly.
- Separates content (HTML) from presentation (CSS).

### **✓** Applications:

- Customizing the appearance of blogs, business websites, online stores.
- Creating beautiful buttons, animations, or themes.
- Ensuring websites look good on **mobile**, **tablet**, **and desktop**.

### 2. How to Link CSS to HTML

There are **3 main ways** to use CSS, but the most common is **external CSS** using the k tag in the HTML <head>.

### **Example (External CSS):**

### HTML:

html

```
_ _ ...
```

CopyEdit

<!DOCTYPE html>

<html>

<head>

<title>My Styled Page</title>

k rel="stylesheet" href="style.css"> <!-- Link to CSS file -->

</head>

<body>

<h1>Hello, CSS!</h1>

</body>

</html>

### CSS (style.css):

CSS

CopyEdit

h1 {

color: blue;

}

### Other Methods:

- Internal CSS: inside <style> in the HTML <head>.
- Inline CSS: directly in HTML elements using the style attribute.

### 3. CSS Selectors

**Selectors** target specific HTML elements to apply styles.

### **Element Selector:**

Applies to all elements of a type.

CSS

CopyEdit

```
p {
font-size: 16px;
}
Class Selector (.class):
Used for multiple elements.
CSS
CopyEdit
.box {
background-color: lightgray;
}
html
CopyEdit
<div class="box">Box 1</div>
<div class="box">Box 2</div>
♦ ID Selector (#id):
Used for one unique element.
CSS
CopyEdit
#header {
background-color: navy;
color: white;
}
html
CopyEdit
<div id="header">Welcome</div>
```

- Element selectors for base styles.
- Class selectors for reusable components.
- ID selectors for targeted styles (e.g., nav bar).

### 4. Colors, Fonts, Text Alignment

```
Colors:
CSS
CopyEdit
h1 {
color: red;
background-color: #f0f0f0;
}
Fonts:
CSS
CopyEdit
body {
font-family: Arial, sans-serif;
font-size: 18px;
font-weight: bold;
}
Text Alignment:
css
CopyEdit
p {
text-align: center;
}
✓ Applications:
```

- Branding (color schemes)
- Readable typography
- Centered titles or justified article text

### ♦ 5. Box Model: Margin, Border, Padding, Content

The **CSS Box Model** defines how elements are visually structured.

lua

CopyEdit

 $\mid \leftarrow ------$ margin ------- $\Rightarrow \mid$ 

- Spacing between cards, sections, buttons
- Creating layout consistency
- Preventing content from touching borders

### • 6. Display: block, inline, inline-block

Controls how elements behave in layout.

### **block:**

- Takes full width
- Starts on a new line
- Examples: <div>, <h1>,

CSS

CopyEdit

div {

display: block;

}

### inline:

- Fits content width
- Stays in line with other text

```
Examples: <span>, <a>
CopyEdit
span {
    display: inline;
}
inline-block:

Like inline, but respects width/height/margin

css
CopyEdit
.button {
    display: inline-block;
    padding: 10px;
    background: green;
}
```

- Block: Layout sections (headers, footers)
- Inline: Styling individual words
- Inline-block: Styling buttons and icons

### **7. Flexbox Basics: display: flex**

**Flexbox** is a layout model used to align and distribute space between items in a container.

### **Example:**

html

CopyEdit

```
<div class="flex-container">
  <div>Item 1</div>
  <div>Item 2</div>
  <div>Item 3</div>
  </div>
```

CSS

## CopyEdit .flex-container { display: flex; justify-content: space-between; /\* or center, flex-start, etc. \*/ align-items: center;

### **♦** Key Properties:

}

• justify-content: Horizontal alignment

• align-items: Vertical alignment

• flex-direction: Row or column layout

### **✓** Applications:

- Navigation bars
- Product grids
- Responsive layouts

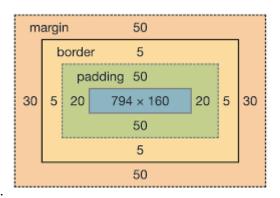
### **✓** Summary Table

Topic	CSS Concept	Example Use Case
What is CSS?	Styling HTML	Making sites look modern & user-friendly
Linking CSS	<li>k&gt; in <head></head></li>	External stylesheet for reusability
Selectors	element, .class, #id	Targeting specific parts of a page
Colors & Fonts	color, font-family	Branding and text styling
Box Model	margin, padding, etc	Spacing and layout control
Display Types	block, inline, inline-block	Layout behavior
Flexbox	display: flex	Building responsive, flexible layouts

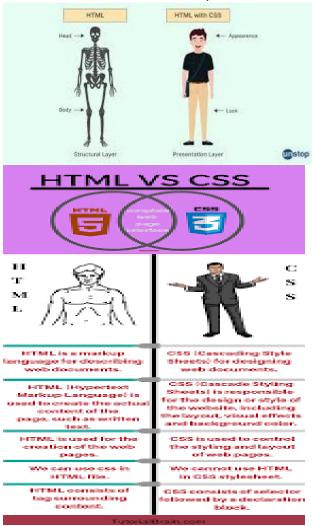
### Practical:

- Style your Week 1 profile page:
  - o Add background colors.
  - Change fonts and text sizes.
  - Add margins, padding, and borders.
  - o Center your content with Flexbox.

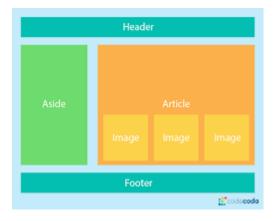
### **Visuals:**



- Image of the CSS box model.
- Before and after: Plain HTML vs Styled with CSS.



• Example Flexbox layout.



### **✓** Week 3: JavaScript – Adding Interactivity

### **Theory:**

- What is JavaScript? the language that makes webpages dynamic.
- How to add JS to HTML: <script> tag.
- Variables (let, const).
- Basic Data Types: String, Number, Boolean.
- Functions: function greet() {}.
- Events: onclick, onchange.
- DOM Manipulation: document.getElementById.
- Simple Conditionals (if/else).

### Note:

### **1.** What is JavaScript?

**JavaScript (JS)** is a **programming language** that allows you to create **interactive**, **dynamic**, and **responsive** behavior on web pages.

### **♦** Key Features:

- Runs in the browser (no need for installation).
- Adds interactivity like clicks, animations, form validation.
- Works with **HTML** (structure) and **CSS** (style) to build full websites.

### **✓** Applications:

- Interactive forms (e.g., check if email is valid before submitting)
- Responsive menus and sliders
- Online games, calculators
- Real-time updates without refreshing (like chat apps)

### **2.** How to Add JavaScript to HTML

You use the <script> tag to embed or link JavaScript in your HTML file.

### **Example 1: Inline JavaScript**

```
html
```

```
CopyEdit
```

<!DOCTYPE html>

<html>

<head>

<title>JS Example</title>

</head>

<body>

<h1>Hello, JavaScript!</h1>

<script>

alert("Welcome to my site!");

</script>

</body>

</html>

### **Example 2: External JavaScript**

### **HTML**

html

CopyEdit

<script src="script.js"></script>

### script.js

js

CopyEdit

console.log("JavaScript is working!");

### **✓** Applications:

- Alerts and prompts
- Executing logic after the page loads
- Keeping scripts organized in external files

### **3.** Variables: let, const

Variables store values like names, numbers, etc.

```
♦ let – can be changed
```

js

CopyEdit

let age = 20;

age = 21;

### const – cannot be reassigned

js

CopyEdit

const name = "John";

// name = "Doe"; X Error

### **✓** Applications:

- User data (name, age, email)
- Calculations (price, discount)
- State management (toggle menus)

### **4.** Basic Data Types

### String (Text)

js

CopyEdit

let name = "Alice";

### Number (Integer or Decimal)

js

CopyEdit

let age = 25;

let price = 19.99;

### Boolean (True/False)

js

CopyEdit

let isLoggedIn = true;

- Storing user input (name, age, etc.)
- Flags for conditions (isDarkMode = true)
- Prices, scores, levels in games

### **5. Functions**

Functions are reusable blocks of code.

```
Example:
```

```
js
CopyEdit
function greet() {
  alert("Hello, welcome!");
}
```

greet(); // Call the function

### **✓** Applications:

- Repeating tasks (e.g., calculating totals)
- Handling events (like button clicks)
- Keeping code organized and modular

### • 6. Events: onclick, onchange, etc.

JavaScript responds to user actions (called **events**).

### onclick Example:

html

CopyEdit

<button onclick="sayHello()">Click Me</button>

```
<script>
function sayHello() {
   alert("You clicked the button!");
}
```

```
</script>
onchange Example:
html
CopyEdit
<select onchange="colorChanged()">
 <option>Red</option>
 <option>Green</option>
</select>
<script>
function colorChanged() {
 alert("Color changed!");
}
</script>
Applications:
       Form validation
       Button clicks
       Dropdowns, typing, scrolling, mouse movement
7. DOM Manipulation: document.getElementById
JavaScript can access and change HTML content using the DOM (Document Object Model).
Example:
html
CopyEdit
Hello
<button onclick="changeText()">Change Text</button>
<script>
function changeText() {
```

document.getElementById("demo").innerText = "Text Changed!";

}

</script>

### **✓** Applications:

- Show/hide content
- Update live results
- Build interactive UIs (like calculators, games)

### **8. Simple Conditionals: if/else**

Allows the program to make decisions.

```
Example:
```

```
js
CopyEdit
let age = 18;

if (age >= 18) {
   console.log("You can vote!");
} else {
   console.log("You are too young.");
}
```

### **✓** Applications:

- Access control (e.g., is user logged in?)
- Form validations (e.g., is age > 18?)
- Game logic (win or lose)

### **✓** Summary Table

Concept	Syntax / Example	Application
What is JavaScript?	Programming language for the web	Adds interactivity to webpages
Adding JS	<pre><script src=""> or <script></script></pre>	Runs JS code inside HTML
Variables	let, const	Store and manage data
Data Types	String, Number, Boolean	User names, ages, login status
Functions	function greet() {}	Reusable logic

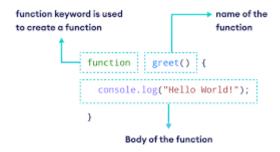
Concept	Syntax / Example	Application
Events	onclick, onchange	Respond to user interactions
DOM Manipulation	document.getElementById()	Update HTML content dynamically
Conditionals	if (x > y) { } else { }	Decision making in programs

### Practical:

- Add a button to your profile page: When clicked, it shows an alert.
- Make your contact form show a thank you message when submitted.
- Change the color of a paragraph when the user clicks it.

### **Visuals:**

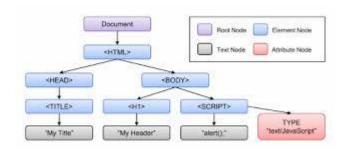
• Screenshot of a simple JS function.



• Diagram: HTML + CSS + JS working together.



• Example of a simple DOM tree.



**✓** Week 4: Project Week – Bringing it All Together

### Theory:

- How to plan a project: Wireframe your site on paper first.
- Best practices: Clean code, indentation, comments.
- Introduction to responsive design (media queries).
- How to be a freelancer as a junior web developer.
- How to host a website using github.
- Advice on how to grow from beginner to a professional in web design.

### Note:

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**JavaScript (JS)** is a **programming language** that allows you to create **interactive**, **dynamic**, and **responsive** behavior on web pages.

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CopyEdit
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</head>
<body>
<h1>Hello, JavaScript!</h1>
 <script>
 alert("Welcome to my site!");
</script>
</body>
</html>
Example 2: External JavaScript
HTML
html
CopyEdit
<script src="script.js"></script>
script.js
js
CopyEdit
console.log("JavaScript is working!");
✓ Applications:
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### 3. Variables: let, const

Variables store values like names, numbers, etc.

Keeping scripts organized in external files

let – can be changed

```
js
CopyEdit
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age = 21;
const – cannot be reassigned
js
CopyEdit
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Applications:
   • User data (name, age, email)
   • Calculations (price, discount)
   • State management (toggle menus)
4. Basic Data Types
String (Text)
js
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let name = "Alice";
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CopyEdit
let age = 25;
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Boolean (True/False)
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let isLoggedIn = true;

js

CopyEdit

- Storing user input (name, age, etc.)
- Flags for conditions (isDarkMode = true)

• Prices, scores, levels in games

### **5. Functions**

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```
Example:
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CopyEdit

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```
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</script>
```

### onchange Example:

html

```
CopyEdit
<select onchange="colorChanged()">
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  <option>Green</option>
  </select>

<script>
  function colorChanged() {
    alert("Color changed!");
  }
  </script>
```

- Form validation
- Button clicks
- Dropdowns, typing, scrolling, mouse movement

### 7. DOM Manipulation: document.getElementById

JavaScript can access and change HTML content using the DOM (Document Object Model).

### **Example:**

html

```
CopyEdit

Hello
<button onclick="changeText()">Change Text</button>

<script>
function changeText() {
   document.getElementById("demo").innerText = "Text Changed!";
}
```

### **✓** Applications:

</script>

• Show/hide content

- Update live results
- Build interactive UIs (like calculators, games)

### **8. Simple Conditionals: if/else**

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```
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```

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js
CopyEdit
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   console.log("You are too young.");
}
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Events	onclick, onchange	Respond to user interactions
DOM Manipulation	document.getElementById()	Update HTML content dynamically
Conditionals	if (x > y) { } else { }	Decision making in programs

If you'd like, I can now compile **HTML + CSS + JavaScript** into one **teaching-friendly PDF booklet** with illustrations and practical examples. Should I prepare that?

### You said:

do the same for these topics • How to plan a project: Wireframe your site on paper first. • Best practices: Clean code, indentation, comments. • Introduction to responsive design (media queries). • How to be a freelancer as a junior web developer. • How to host a website using github. • Advice on how to grow from beginner to a professional in web design.

### **ChatGPT said:**

Here's a **comprehensive explanation** of the final set of topics—focused on **project planning**, **best practices**, **responsiveness**, **career tips**, and **hosting**—essential for students and beginners moving toward **professional web development**.

### **1.** How to Plan a Project: Wireframe Your Site First

Planning is the first step of any serious web project.

### What is a Wireframe?

A wireframe is a rough sketch (on paper or digital tool) showing the layout of your website.

### ☐ How to Wireframe:

**←** Example:

- 1. **Draw the layout**: Header, nav, sidebar, main content, footer.
- 2. **Indicate features**: Signup button, image area, login form, etc.
- 3. Plan pages: Home, About, Contact, Dashboard, etc.

## less CopyEdit +-----+ | Header | +-----+ | Nav | Main Content | | | - Welcome Msg |

**✓** Applications:

| | - Sign Up Form |

+----+

Footer

+----+

- Helps you visualize before coding.
- Improves focus and productivity.
- Saves time by avoiding layout confusion.

### **Tools** (optional):

- Figma
- Adobe XD
- Pencil & paper (for beginners)

### **2.** Best Practices: Clean Code, Indentation, Comments

Writing clean, readable code is essential for collaboration and future editing.

### **Clean Code Tips:**

- **Meaningful names**: userName, not x1
- Consistent indentation (2 or 4 spaces)
- Avoid repetition (reuse code via classes/functions)

### **Example:**

html

CopyEdit

```
<!-- X Messy -->
```

<div>HelloWorld</div>

```
<!-- <!--> Clean -->
```

<div>

Hello

World

</div>

### **Use Comments:**

html

CopyEdit

<!-- Navigation Bar -->

<nav>

...

```
</nav>
js

CopyEdit

// Calculates total price

function getTotal(price, quantity) {
  return price * quantity;
}
```

- Makes code easier to debug and maintain
- Helps teams understand each other's work
- Shows professionalism

### **3.** Introduction to Responsive Design (Media Queries)

**Responsive Design** means your website **looks good on all devices** — phone, tablet, and desktop.

### Why It Matters:

- 70%+ web traffic comes from mobile users
- Improves user experience and SEO

### **Media Query Example:**

```
css
CopyEdit
/* Base style for desktop */
body {
  font-size: 20px;
}

/* Smaller font for phones */
@media (max-width: 600px) {
  body {
   font-size: 16px;
  }
}
```

- Mobile-friendly navigation menus
- Adjusting image sizes or layouts for small screens
- Responsive grids using Flexbox or CSS Grid

### **4.** How to Be a Freelancer as a Junior Web Developer

Start building real-world experience and earning as a junior developer.

### **Steps to Begin Freelancing:**

- 1. **Build a portfolio**: Add 3–5 websites you created.
- 2. Offer simple services: Landing pages, portfolio sites, business sites.
- 3. Join platforms:
  - Upwork
  - o Fiverr
  - o LinkedIn
  - o <u>Twitter/X</u> for networking

### **Set up professional tools:**

- GitHub for sharing your code
- Canva or Figma for mockups
- Google Drive or Notion for client documentation

### Best Advice:

- Communicate clearly with clients
- Deliver on time
- Learn how to write proposals

### 5. How to Host a Website Using GitHub

GitHub lets you host static websites for free with GitHub Pages.

### Steps to Host:

- 1. Create a GitHub account.
- 2. Create a new repository.
- 3. Upload your HTML, CSS, and JS files.
- 4. Go to **Settings > Pages**.

- 5. Choose main branch and root folder  $\rightarrow$  Click Save.
- GitHub will give you a public link like: https://yourusername.github.io/project-name

### Advantages:

- Free hosting for portfolio or school projects
- Fast deployment
- Easy to update and share your work

### **6**. Advice: How to Grow from Beginner to Professional in Web Design

### **1.** Master the Fundamentals:

- HTML, CSS, JavaScript (get comfortable with all 3)
- Build small projects: portfolios, forms, blogs

### 2. Practice Daily:

- Follow tutorials
- Build projects and replicate existing websites

### **3. Learn Advanced Tools:**

- Flexbox, CSS Grid, Media Queries
- Git & GitHub
- React.js or other frontend frameworks (optional)

### 4. Create a Portfolio:

- Showcase 3–6 solid projects
- Include about page and contact info

### 5. Contribute to Open Source:

- Help fix small issues in public projects on GitHub
- Great for learning and gaining experience

### • 6. Stay Updated:

- Follow devs on YouTube, Twitter/X, and dev.to
- Read documentation and blogs

### Final Advice:

Learn  $\rightarrow$  Build  $\rightarrow$  Share  $\rightarrow$  Repeat **Consistency** > **Speed** Focus on growth, not perfection.

### **✓** Summary Table

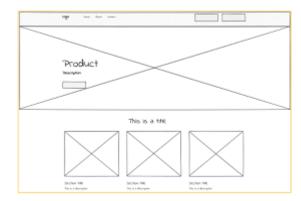
Topic	Key Focus	Real-World Use
Planning with Wireframes	Sketch layout before coding	Structure and focus before development
Best Practices	Clean code, indentation, comments	Professionalism, collaboration
Responsive Design	Media queries, mobile optimization	n Mobile-friendly websites
Freelancing as a Junior	Portfolio, platforms, communication	Earn while learning
Hosting on GitHub	Free static hosting with GitHub Pages	Share projects publicly
Growing into a Pro	Practice, projects, open source	Career growth & job-readiness

### Practical:

- Build a small portfolio website:
  - o Homepage: About you, photo, and skills.
  - o Projects page: List your practice projects.
  - Contact page: Contact form with JavaScript validation.
- Host your site for free on GitHub Pages or Netlify.

### **Visuals:**

• Wireframe sketch of a simple site layout.



• Screenshots of student projects.



Before and after: HTML only → HTML + CSS + JS.

