


12-Session Beginner Front-End Web Development Course Outline


Goal: Build real products fast while understanding the essentials of web development.

Month 1 – Foundations (HTML & CSS)


Session 1: Introduction to the Web & HTML Basics

- What is web development? Frontend vs backend.
- The browser and how websites work.
- Structure of an HTML document.
- Core tags: headings, paragraphs, links, images, lists, divs, spans.
- Semantic HTML.
-  *Mini Project: "My Profile"* – a basic HTML page with personal info, photo, and links.


Session 2: Layout & Styling with CSS

- CSS syntax and selectors.
- Inline, internal, and external CSS.
- Fonts, colors, margins, paddings, borders.
- Display: block vs inline vs inline-block.
-  *Mini Project: Style "My Profile" from Session 1 using CSS.*

Session 3: Box Model, Positioning & Flexbox

- Box model explained visually.
- Static, relative, absolute, fixed positioning.
- Flexbox fundamentals (container & item properties).
-  *Exercise: Create a responsive navigation bar layout.*


Session 4: Responsive Design + CSS Grid

- Media queries and breakpoints.
 - Mobile-first design.
 - Grid basics: container, columns, rows.
 -  *Mini Project: Responsive 2-column blog layout.*
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Month 2 – Tailwind CSS & JavaScript Fundamentals

Session 5: Intro to Tailwind CSS


- Utility-first CSS explained.
- Setup via CDN and VS Code tips.
- Typography, spacing, colors, and responsiveness in Tailwind.

-  *Exercise:* Rebuild "My Profile" using Tailwind.


Session 6: Layouts in Tailwind (Flex, Grid, Cards)

- Reusable components (cards, buttons, headers).
- Flex and Grid with Tailwind classes.
-  *Mini Project:* Responsive pricing page or feature showcase.

Session 7: JavaScript Basics


- What is JS and where it runs.
- Variables (let, const), data types.
- Operators, conditionals (if, else, switch).
-  *Exercise:* Simple quiz with prompts and alerts.

Session 8: DOM Manipulation + Events


- Selecting elements (`querySelector` , `getElementById`)
 - Events (`click` , `submit` , `keyup`)
 - Changing styles, text, HTML with JS.
 -  *Mini Project:* "Theme Switcher" (light/dark mode toggle).
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Month 3 – Dynamic Pages & Real-World Projects


Session 9: JS Arrays, Loops & Functions

- Arrays and objects.
- `for` , `while` , `forEach` , and basic `map` .
- Writing and using functions.
-  *Exercise:* Dynamic list from an array of items.


Session 10: Forms & Input Handling

- HTML forms + Tailwind form controls.
- Capturing input with JS.
- Form validation basics.
-  *Mini Project:* Feedback form with live validation.

Session 11: Mini App – "To-Do List" Project

- Build a full to-do app with:
- Form input
- Add/remove tasks
- Local state with JS
- Tailwind styling
-  *Challenge Extension:* Save to `localStorage` .

Session 12: Capstone Project + Deployment

- Project ideas:
 - Landing page with contact form
 - Product showcase
 - Portfolio site
 - Teach GitHub Pages for free hosting.
 -  *Final Project Presentation*: Each student shares their project.
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Tools to Introduce Along the Way

- VS Code setup (with Tailwind IntelliSense)
 - CodePen or Replit for rapid prototyping
 - GitHub for version control (light intro)
 - AI code assist tips (how to prompt effectively, reviewing AI code)
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After Each Session

Provide: - **Code templates** (starter + solution) - **1-2 practice exercises** (mini challenges) - **Optional stretch challenges** for advanced learners - **Cheat sheets** (e.g., HTML tags, Tailwind utilities, JS syntax)