

Professional CSS Developer Checklist (2026)

Student Name: _____ Instructor Name: _____

(Industry / Software House Standard)

1 CSS Fundamentals

- [] What is CSS & how it works with HTML
 - [] Inline, Internal, External CSS difference
 - [] CSS Syntax (selector { property: value; })
 - [] Comments & clean formatting
 - [] CSS Cascade concept
 - [] Specificity rules
 - [] Inheritance concept
 - [] !important usage (when & why to avoid)
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2 Selectors (Very Important)

- [] Element selector
 - [] Class selector
 - [] ID selector
 - [] Universal selector
 - [] Group selector
 - [] Descendant selector
 - [] Child selector (>)
 - [] Adjacent sibling (+)
 - [] General sibling (~)
 - [] Attribute selectors
 - [] Pseudo-classes (:hover, :focus, :nth-child etc.)
 - [] Pseudo-elements (::before, ::after, ::first-letter etc.)
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3 Box Model Mastery

- [] Content
 - [] Padding
 - [] Border
 - [] Margin
 - [] box-sizing (content-box vs border-box)
 - [] Margin collapsing concept
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4 Typography & Text Styling

- [] font-family
 - [] font-size (px, em, rem, %)
 - [] font-weight
 - [] line-height
 - [] letter-spacing
 - [] text-align
 - [] text-decoration
 - [] text-transform
 - [] text-shadow
 - [] Web fonts (@font-face / Google Fonts)
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5 Colors & Backgrounds

- [] Color formats (hex, rgb, rgba, hsl)
 - [] background-color
 - [] background-image
 - [] background-size
 - [] background-position
 - [] background-repeat
 - [] gradient backgrounds
 - [] opacity vs rgba difference
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6 Units & Responsive Units

- [] px
 - [] %
 - [] em
 - [] rem
 - [] vh / vw
 - [] clamp()
 - [] calc()
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7 Display & Positioning

- [] display (block, inline, inline-block)
 - [] display: none vs visibility: hidden
 - [] position (static, relative, absolute, fixed, sticky)
 - [] z-index
 - [] overflow
 - [] float & clear (legacy knowledge)
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8 Flexbox (Must for Software House)

- [] display: flex
 - [] flex-direction
 - [] justify-content
 - [] align-items
 - [] align-content
 - [] flex-wrap
 - [] flex-grow / shrink / basis
 - [] gap
 - [] Real layout practice
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9 CSS Grid (Advanced Layout)

- [] display: grid
- [] grid-template-columns
- [] grid-template-rows
- [] fr unit
- [] gap

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- [] grid-column / row
 - [] grid-area
 - [] Auto-fit / auto-fill
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10 Responsive Design

- [] Media queries
 - [] Mobile-first approach
 - [] Breakpoints
 - [] Responsive typography
 - [] Responsive images handling
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11 Transitions & Animations

- [] transition property
 - [] transform (scale, rotate, translate)
 - [] keyframes animation
 - [] animation properties
 - [] Performance awareness (GPU friendly properties)
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12 Advanced CSS Concepts

- [] CSS Variables (custom properties)
 - [] CSS architecture (BEM methodology)
 - [] Reusability & component styling
 - [] Stacking context
 - [] Specificity debugging
 - [] CSS reset / normalize
 - [] Critical CSS concept
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13 Performance & Optimization

- [] Avoid deep nesting
- [] Avoid overuse of !important
- [] Minification

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- Avoid unused CSS
 - Proper selector efficiency
 - Reduce layout shifts
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14 Accessibility & UX

- Focus states styling
 - Hover vs touch awareness
 - Contrast ratio basics
 - Responsive readability
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Project Completion Check

Students must complete at least 2:

- Responsive Landing Page
 - Dashboard Layout (Flex + Grid)
 - Portfolio Website
 - E-commerce Product Page Layout
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Course Completion Statement

By completing this checklist, the student demonstrates the ability to create structured, responsive, scalable, and production-ready CSS layouts following modern industry standards and professional frontend practices.

Student Signature: _____ Date: _____