

# Basic HTML, CSS, and JS Topics to Cover Before Starting React

## HTML Topics

1. Basic Structure: `<!DOCTYPE>`, `<html>`, `<head>`, `<body>`, `<title>`
2. Common Tags: `<p>`, `<h1>` to `<h6>`, `<a>`, `<div>`, `<span>`, `<img>`, `<button>`, `<form>`, `<input>`, `<label>`, `<ul>`
3. Attributes: `id`, `class`, `href`, `src`, `alt`, `type`, `value`, etc.
4. Forms and Inputs: `<form>`, `<input>`, `<textarea>`, `<select>`, `<option>`, `method`, `action`
5. Semantic HTML: `<header>`, `<footer>`, `<article>`, `<section>`, `<nav>`
6. Tables: `<table>`, `<thead>`, `<tbody>`, `<tr>`, `<td>`, `<th>`
7. Media Elements: `<video>`, `<audio>`, `<source>`, `<iframe>`

## CSS Topics

1. Selectors: Element, Class, ID, Attribute, Pseudo-classes (`:hover`, `:nth-child`), Pseudo-elements (`::before`, `::after`)
2. Box Model: `margin`, `border`, `padding`, `content`, `width`, `height`
3. Positioning: `static`, `relative`, `absolute`, `fixed`, `sticky`
4. Flexbox: `display: flex`, `justify-content`, `align-items`, `flex-direction`, `flex-wrap`
5. Grid: `display: grid`, `grid-template-columns`, `grid-template-rows`, `gap`
6. Typography: `font-family`, `font-size`, `line-height`, `text-align`, `color`
7. Responsive Design: Media queries (`@media`), relative units (`em`, `%`, `vh`, `vw`)
8. Animations and Transitions: `@keyframes`, `transition`, `transform`, `animation`

## JavaScript Topics

1. Basic Syntax: Variables (`let`, `const`, `var`), Data types, Operators
2. Functions: Declaration, Expression, Arrow functions, Parameters, Return values
3. DOM Manipulation: `getElementById`, `querySelector`, `addEventListener`, `innerHTML`, `style`
4. Control Flow: `if-else`, `switch`, `for`, `while`, `forEach`, `map`, `filter`
5. Events: Click, Input, Keyup, Change, Submit
6. Arrays: Methods (`push`, `pop`, `shift`, `unshift`, `slice`, `splice`, `map`, `filter`, `reduce`)

7. Objects: Properties, Methods, this keyword, Object Destructuring
8. ES6+ Features: let/const, Template literals, Spread/Rest operators, Destructuring, Default parameters
9. Promises & Fetch API: Fetching data, handling asynchronous operations (then, catch, async/await)
10. LocalStorage/SessionStorage: Storing and retrieving data in the browser
11. Error Handling: try, catch, finally

## **General Topics**

1. Version Control: Git basics (clone, commit, push, pull)
2. Package Management: npm basics, installing packages