# Frontend Development (2 Months)

**Schedule:** Monday, Wednesday, Friday

**Duration:** 4 hours per session

If a trainee completes this entire program, they will be able to:

- **Build complete, responsive websites** using HTML and CSS with modern layout techniques like Flexbox and Grid.
- **Create interactive web pages** by using JavaScript for DOM manipulation, event handling, and working with data structures.
- **Work with APIs** to fetch and display dynamic data in web apps.
- **Use React.js** to build scalable, component-based user interfaces with state management and lifecycle methods.
- **Develop and deploy projects** like portfolios, to-do apps, weather apps, and e-commerce product pages.
- **Understand and apply best practices** in frontend development including accessibility, SEO basics, responsive design, and code organization.
- **Work independently on frontend tasks** and collaborate effectively in real-world projects or junior developer roles.
- **Confidently work on freelance frontend projects**, managing client requirements, delivering quality work, and meeting deadlines.
- **Prepare for junior frontend developer roles** or freelance careers with a strong, practical skill set.

## Month 1: HTML, CSS & JavaScript Fundamentals

### Week 1

- **Monday:** Internet basics, Figma & Canva + HTML structure & semantics
- **Wednesday:** Forms & validation + accessibility & SEO basics
- **Friday:** Project: User Profile Card + Signup/Login Form

### Week 2

- **Monday:** CSS fundamentals: syntax, selectors, box model
- **Wednesday:** Flexbox layout + mobile-first responsive design
- **Friday:** Project: Product Preview Card + Responsive Landing Section

### Week 3

- **Monday:** CSS Grid + combining Flexbox & Grid
- **Wednesday:** Media queries + CSS variables
- **Friday:** Project: Responsive Article Preview Cards + Dashboard Section

### Week 4

- **Monday:** CSS architecture + component mindset
- **Wednesday:** Build a full responsive landing page (HTML + CSS)
- **Friday:** GitHub portfolio setup + deploy project

# Month 2: JavaScript

# Advanced + React.js

# Introduction

### Week 5

- **Monday:** JavaScript basics: syntax, data types, functions
- **Wednesday:** DOM manipulation + events (click, input, submit)

- **Friday:** Project: Interactive Form with error messages + To-Do List app

### Week 6

- **Monday:** Arrays, objects, loops, ES6+ features
- **Wednesday:** LocalStorage basics + JavaScript logic
- **Friday:** Project: Bookmark Manager + Expense Tracker

### Week 7

- **Monday:** APIs: What they are + Fetch API (GET requests)
- **Wednesday:** Display API data + error handling
- **Friday:** Project: Weather App or Quiz App (with API data)

### Week 8

- **Monday:** React.js basics: JSX, components, props
- **Wednesday:** React state (useState) + event handling
- **Friday:** Project: React Hello World + reusable components

### Week 9: Project Sprint

- **Monday:** User Profile Card + Signup/Login Form + Product Preview Card + Responsive Landing Section
- **Wednesday:** Responsive Article Preview Cards + Dashboard Section + Interactive Form with Error Messages + To-Do List App
- **Friday:** Bookmark Manager + Expense Tracker + Weather App or Quiz App (API data) + React Hello World + Reusable Components + Final React Project (Portfolio or E-commerce Product Page) + Deployment

**Summary:** Total sessions: 8 (3 per week, over ~8 weeks + 1 extra session for project)

**Each session:** 4 hours Covers foundational web dev, JavaScript, APIs, plus React basics and projects