Front-End Development Curriculum

Course Duration

- 3–6 Months (Beginner to Advanced)
- Mode: Classroom / Online / Hybrid
- Eligibility:Students,Freshers,WorkingProfessionals, Entrepreneurs

MODULE 1: Web Fundamentals

- How Internet Works
- Client–Server Architecture
- Web Browsers & Rendering Process
- Basics of HTTP/HTTPS
- Introduction to Web Development

MODULE 2: HTML5 (Structure of Web)

- HTML Basics & Tags
- Semantic HTML
- Forms & Input Types
- Audio, Video & Media Elements
- Tables & Lists
- SEO-Friendly HTML Structure
- Best Practices

MODULE 3:CSS3 (Styling & Layout)

- CSS Basics & Selectors
- Box Model
- Colors, Fonts & Typography
- Flexbox
- CSS Grid
- Responsive Design
- Media Queries
- Animations & Transitions

Module 4: Bootstrap & Tailwind CSS

- Bootstrap Grid System
- Components & Utilities
- Responsive Layouts
- Tailwind Utility-First Approach
- Custom UI Design
- Real-World Layout Creation

Module 5: JavaScript (Core Concepts

- Variables, Data Types & Operators
- Functions & Scope
- Loops & Conditions
- DOM Manipulation
- Events Handling
- ES6 Features
- Form Validation
- Basic Logic Building

Module 6: Advanced JavaScript

- Async JavaScript
- Promises & Async/Await
- API Integration (REST APIs)
- Fetch & Axios
- Error Handling
- Local Storage & Session Storage

Module 7: React.js

- Introduction to React
- Components & JSX
- Props & State
- Hooks (useState, useEffect)
- Routing (React Router)
- Forms & Validation
- API Integration in React
- Performance Optimization

Module 8: Version Control (Git & GitHub)

- Git Basics
- Repositories
- Branching & Merging
- GitHub Workflow
- Collaboration Practices

Module 9: UI/UX Basics

- UI Principles
- UX Design Fundamentals
- Wireframing
- Figma Basics
- User-Friendly Design Concepts

Module 10: Performance & Optimization

- Website Speed Optimization
- Lazy Loading
- Image Optimization
- Cross-Browser Compatibility
- SEO Basics for Front-End

Module 11: Real-World Projects

- Portfolio Website
- Landing Page
- E-Commerce Front-End
- Admin Dashboard
- React-Based Web App

Module 12: Interview & Placement Preparation

- Front-End Interview Questions
- Live Coding Practice
- Resume & Portfolio Building
- Mock Interviews
- Industry Use-Cases

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