



# WEB DEVELOPMENT & UI DESIGN

## Web Development & Interactive Design

Master modern web development using HTML, CSS, and JavaScript through interactive projects, responsive UI design, game development, and real-world applications.

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<b>■ Build Modern Websites</b> Learn HTML, CSS & JavaScript	<b>■ Interactive UI Design</b> Responsive layouts & styling
<b>■ Dynamic Web Apps</b> Games, APIs & DOM interactions	<b>■ Capstone Project</b> Complete website + app showcase

# Curriculum Roadmap

## **1. Web Foundations**

- HTML structure
- Metadata
- Basic webpage

## **2. HTML Content Building**

- Images & links
- Lists
- Personal webpage

## **3. HTML Data & Layout**

- Tables
- Forms
- Survey/Login form

## **4. Advanced HTML**

- Iframes
- Semantic HTML
- Multi-page website

## **5. Introduction to CSS**

- Selectors
- Fonts & colors
- Styled webpage

## **6. Layout & Design**

- Box model
- Flexbox
- Card layout

## **7. Responsive & UI Design**

- Navigation bars
- Image gallery
- Responsive UI

## **8. JavaScript Fundamentals**

- Variables
- Input/output
- Greeting app

### **9. Events & Interactions**

- DOM manipulation
- Click events
- Color changer

### **10. Logic Building**

- Conditions
- Loops
- Calculator project

### **11. Data & Advanced JS**

- Arrays & objects
- Dynamic updates
- To-do app

### **12. Game Development**

- Timers
- Quiz app
- Number guessing game

### **13. Advanced Projects**

- Memory game
- Interactive storytelling

### **14. API Integration**

- JSON handling
- Weather app
- Real-time apps

### **15. Final Capstone Project**

- Complete website + app
- Testing & showcase

## **Learning Outcomes**

- Build responsive websites using HTML, CSS, and JavaScript
  - Create modern layouts and interactive UI components
  - Develop games, calculators, and dynamic web apps
  - Work with APIs, JSON, and real-time applications
  - Showcase a complete full-stack front-end project
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**Design • Develop • Interact • Launch**