KIDS & TEENS FREELANCING TRAINING INSTITUTE

Web Development Course Outline

Module 1: What is Web Development?

- What does "Web Development" mean in simple words?
- Real-life examples: building a house, designing a poster, organizing a party
- Why web development is important for creating websites and apps
- How front-end (design) and back-end (data) teams work together as one unit
- The main goals of web development: user-friendly design, fast performance, and smooth functionality
- How web development turns an idea into a live website or app
- Fun comparison: Web development vs. traditional graphic design

Module 2: Coding for the Web – HTML, CSS, and JavaScript

- What is HTML (structure), CSS (style), and JavaScript (interactivity)?
- Real-life example: building a webpage like building a puzzle
- Why each language is important for creating a complete website
- Simple example: creating a webpage with text, colors, and buttons
- How developers use code to control the look and behavior of websites
- Working with HTML, CSS, and JavaScript like adding pieces to a digital project
- Fun activity: create your first webpage with text, colors, and images

Module 3: Web Design and Layout – Making Websites Beautiful

- What is web design and why it matters for users
- Introduction to layout with grids, fonts, and colors
- How responsive design makes websites work on phones, tablets, and desktops
- Fun example: building a website like arranging a room with furniture
- Introduction to design tools like Figma or Adobe XD for planning websites
- How CSS helps with layout and design: adding colors, fonts, and positioning
- Activity: design a simple webpage layout with a heading and image

Module 4: Working with Websites – From Static to Dynamic

- What is a static website vs. a dynamic website?
- How dynamic websites change based on users (e.g., comments, posts, shopping carts)
- Real-life example: a blog vs. a social media site
- Introduction to databases and how they store website data
- How back-end development connects to databases and front-end design
- Fun activity: turn your static webpage into a form with interactive elements (e.g., contact form)
- Why dynamic websites are essential for complex projects

Module 5: Introduction to Frameworks – Speeding Up Development

- What is a web development framework and why developers use it?
- Real-life example: using a recipe template to cook faster
- Introduction to front-end frameworks like React, Vue, or Angular
- Introduction to back-end frameworks like Node.js, Django, or Ruby on Rails
- How frameworks save time and help developers avoid mistakes
- Benefits of using frameworks for creating websites quickly and efficiently
- Fun activity: create a basic app using a pre-built framework template

Module 6: Deploying Your Website – Making it Live

- What is website deployment and why it matters?
- Real-life example: publishing a book or launching a product
- How developers use servers and cloud hosting to make websites accessible online
- Introduction to hosting platforms like GitHub Pages, Netlify, or Heroku
- What is a domain name and why it's important for your website's address?
- Fun activity: deploy your website live for the world to see
- How the internet makes websites available 24/7 for users around the world

Module 7: Debugging and Problem Solving – Keeping Websites Running Smoothly

- What is debugging and why it's important for developers?
- Real-life example: fixing a broken toy or machine
- How to find and fix errors in your code (bugs) using developer tools
- Introduction to error messages, logs, and troubleshooting tips
- How to test your website for performance and security

- Fun activity: fix a bug in your website's code with debugging tools
- Why it's important to keep websites working well after they are live

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Module 8: The Future of Web Development & Careers

- What makes web development an exciting and growing field
- How web development helps people and businesses connect with others
- Jobs in the future: front-end developer, back-end developer, full-stack developer
- What skills you can start learning now to build your web dev career
- Fun drawing: design your dream website + how web development helps it
- The impact of new technologies on web development (e.g., AI, AR, VR)
- Web development makes the internet a more fun, useful place for everyone

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Bonus Materials:

- Interactive quizzes and mini games
- Kid-safe tools like CodePen, Glitch, or Replit
- Printable web development terms and meanings sheet
- Small group project ideas for practice
- Official Certificate of Completion