



KIDS & TEENS FREELANCING TRAINING INSTITUTE

Laravel Training Course Outline

Module 1: Introduction to Laravel

- What is Laravel and why it's one of the most popular PHP frameworks for web development
 - Real-life example: Building an online store with user authentication, products, and orders (Laravel in action)
 - Setting up Laravel on your local environment using Composer
 - Understanding the MVC (Model-View-Controller) architecture in Laravel
 - Activity: Create your first Laravel app with a simple welcome page
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Module 2: Routing and Controllers in Laravel

- What are routes and how to define them in Laravel
 - Real-life example: Navigating between pages of a blog (routes in action)
 - Creating controllers to handle HTTP requests and route them to views
 - Using route parameters and named routes for dynamic content
 - Activity: Build an app with multiple pages and controllers to handle the requests
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Module 3: Views and Blade Templating Engine

- What are views in Laravel and how they separate logic from presentation
 - Real-life example: Displaying dynamic content like user profiles and blog posts (views in action)
 - Understanding Blade templating syntax for rendering data
 - Using loops, conditionals, and template inheritance with Blade
 - Activity: Create a dynamic page that renders a list of blog posts using Blade
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Module 4: Working with Databases and Eloquent ORM

- What is Eloquent ORM and how it simplifies database interactions in Laravel
 - Real-life example: Storing user information and products in a database (Eloquent in action)
 - Setting up migrations to create database tables
 - Creating, reading, updating, and deleting (CRUD) operations using Eloquent models
 - Activity: Build a basic CRUD application to manage blog posts
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Module 5: Handling Forms and Validation in Laravel

- What are forms and how to handle them in Laravel
 - Real-life example: A user registration form that validates input (forms in action)
 - Using Laravel's built-in validation for form inputs and error handling
 - Creating and processing forms with CSRF protection
 - Activity: Build a form for adding a new blog post with validation rules
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Module 6: Authentication and Authorization in Laravel

- What is authentication and how Laravel handles it with built-in tools
 - Real-life example: Logging in to a personal account (authentication)
 - Setting up user login and registration with Laravel Breeze or Laravel Jetstream
 - Using middleware for role-based authorization and access control
 - Activity: Create an authentication system for your app (login, register, password reset)
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Module 7: API Development in Laravel

- What is RESTful API and how to build one with Laravel
 - Real-life example: A mobile app that communicates with a server through an API (API in action)
 - Creating API routes and returning JSON responses
 - Authenticating APIs with tokens and API middleware (using Passport or Sanctum)
 - Activity: Build a simple API that allows users to retrieve and create blog posts
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Module 8: Final Project – Build a Complete Laravel Application

- Plan and build a full-featured Laravel app using routing, views, controllers, Eloquent ORM, authentication, and APIs
- Implement validation, authorization, and CRUD operations for managing data
- Test your app and deploy it to a live server (Heroku or DigitalOcean)

- Activity: Present your Laravel project, demonstrating key features and Laravel concepts
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Bonus Materials

- Laravel cheat sheet with routing, Eloquent, and Blade syntax
- List of essential Laravel packages and tools to improve productivity
- Resources for learning advanced Laravel topics (queues, event handling, etc.)
- Interactive coding challenges and quizzes
- Certificate of Completion for Laravel Basics