Faysal Aziz

Laravel 10

Comprehensive 5-day course

FA-0281 · 5-day

Software Development · DevOps, Cloud & Infrastructure

Introduction

This is a uniquely designed Laravel intensive course! Distinct from generic Laravel training, this course is meticulously crafted to provide you with real-world, hands-on experience in developing web applications. Our trainers, who are industry pioneers in various technological innovations, will guide you through a rich learning journey. The focus will be primarily on building robust real world applications that simulate real-world project development and cover a wide spectrum of features and functionalities.

Learning outcomes

- Understand Web Development Basics: Acquire foundational knowledge of HTML, CSS, and JS and understand their interplay in creating dynamic web content.
- Master Laravel Installation & Setup: Learn the nuances of installing and configuring Laravel on a Linux server, replicating a professional deployment environment.
- Grasp Laravel Core Concepts: Delve deep into the fundamental concepts and features of Laravel, including MVC architecture, Eloquent ORM, and Blade Templating.
- Integrate RESTful APIs: Develop proficiency in integrating RESTful APIs through the hands-on development of an Events App.
- Explore Advanced Laravel Concepts: Investigate advanced Laravel functionalities such as authentication, and apply them in creating a Hotel Booking App.
- Develop Project Management Skills: Cultivate practical skills in managing, testing, debugging, and deploying real-world projects.

Prerequisites

- Basic understanding of PHP.
- Familiarity with HTML, CSS, and JavaScript.

- Understanding of web development concepts.
- Familiarity with Linux/Unix commands will be beneficial.

Training outline

1. Module 1: Foundations of Web Development & Introduction to Laravel

Web Development Basics:

1. Explore the roles of HTML, CSS, and JS in web development.
2. Craft basic web pages and incorporate dynamic content using JS.

Introduction to Laravel:

1. Delve into Laravel's significance and its revolutionary impact on web development.
2. Understand the MVC architecture and how it shapes application development.
3. Navigate through Laravel Directory Structure and comprehend its organization.

2. Module 2: Delving Deeper into Laravel & Linux Server Setup

Laravel Essentials:

1. Grasp the intricacies of Routing, Controllers, and Views in Laravel.
2. Master the Blade Templating Engine and its utility in crafting dynamic views.
3. Explore Eloquent ORM and understand Database Migrations.

Linux Server Installation:

1. Set up a Linux server and configure it for Laravel deployment.
2. Install necessary dependencies: PHP, Composer, and others.
3. Deploy a basic Laravel application on the server and troubleshoot common issues.

3. Module 3: Kickstarting Project 1 - Events App with RESTful APIs

RESTful APIs & Project Overview:

1. Demystify RESTful APIs and explore their critical role in modern web applications.
2. Detail the specifications, features, and requirements of the Events App.

Building the Events App:

1. Initialize the project and set up the development environment.

2. Implement CRUD operations for events, and integrate RESTful APIs.
3. Troubleshoot and optimize the application for performance and reliability.

4. Module 4: Completion of Events App & Introduction to Hotel Booking App

Finalizing the Events App:

1. Refine features, conduct comprehensive testing, and debug issues.
2. Optimize the app for scalability and security.

Introduction to Hotel Booking App:

1. Discuss the requirements, features, and advanced functionalities of the Hotel Booking App.
2. Explore topics such as user authentication, booking systems, and data security.

5. Module 5: Development & Finalization of Hotel Booking App

Building the Hotel Booking App:

1. Set up the project and implement core features including user authentication and booking system.
2. Optimize the application, focusing on security, performance, and user experience.

Completing the Hotel Booking App:

1. Refine and finalize all features and functionalities.
2. Conduct extensive testing, debugging, and deployment.
3. Recapitulate the course content, discuss key learnings, and gather feedback.

Each module is laden with hands-on coding, collaborative discussions, and practical problem-solving scenarios, ensuring participants not only learn the theoretical aspects but also gain substantial practical experience in Laravel-based web development.

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