



Laravel Framework Training Program

Duration: 6 Months

Overview:

Step 1: Introduction to Laravel Framework

- ✓ Overview of Laravel
- ✓ Understanding the Role of Composer
- ✓ Setting Up a Local Development Environment

Core Features and Architecture

- ✓ Key Capabilities of Laravel
- ✓ Breakdown of Application Structure

Step 2: Installation and Configuration

- ✓ System Prerequisites
- ✓ Step-by-Step Installation Process
- ✓ Web Server Setup
- ✓ Understanding Project Structure

Step 3: Routing Essentials

- ✓ Basics of Routing in Laravel
- ✓ Working with Route Parameters
- ✓ Handling Different Types of Responses
- ✓ Using Views for Content Display
- ✓ Implementing Redirects
- ✓ Customizing Responses

Step 4: Middleware in Laravel

- ✓ What is Middleware?
- ✓ How to Register Middleware

Step 5: Blade Template Engine

- ✓ Building Dynamic Templates
- ✓ Displaying PHP Output in Templates
- ✓ Using Control Structures in Views

Handling URLs and APIs with Controllers and Routing

Step 1: Working with Controllers

- ✓ Overview of Controllers
- ✓ Understanding Basic Controllers
- ✓ Implementing Middleware in Controllers
- ✓ Using Implicit Controllers
- ✓ How to Create Controllers
- ✓ Defining Routes for Controllers
- ✓ RESTful Controller Implementation

Step 2: Advanced Routing Techniques

- ✓ Defining Named Routes
- ✓ Securing Routes with Authentication
- ✓ Applying Parameter Constraints
- ✓ Using Route Prefixes
- ✓ Implementing Domain-Based Routing
- ✓ Applying Filters to Routes
- ✓ Grouping Routes for Better Organization
- ✓ Building a RESTful API with Routes

Step 3: Generating and Managing URLs

- ✓ Retrieving the Current URL
- ✓ Creating URLs within the Framework
- ✓ Handling Asset URLs
- ✓ Using Shortcut Methods for URL Generation

Handling Forms in Laravel

Step 1: Working with Forms in Laravel

- ✓ Overview of Forms in Laravel
- ✓ Using Form Fields
- ✓ Adding Buttons for Actions
- ✓ Handling Form Submission
- ✓ Ensuring Security in Forms

Step 2: Managing Request Data

- ✓ Retrieving Form Input Data
- ✓ Handling Previous Input Data
- ✓ Uploading Files with Forms

Step 3: Form Validation Techniques

- ✓ Applying Validation Rules
- ✓ Displaying Error Messages
- ✓ Defining Custom Validation Rules
- ✓ Creating Custom Error Messages

Step 4: Building Interactive Forms

- ✓ Designing a Basic Form with Inputs
- ✓ Validating Form Input Data
- ✓ Implementing a File Upload Feature
- ✓ Validating File Uploads
- ✓ Customizing Error Messages for File Uploads
- ✓ Uploading Images via Forms
- ✓ Adding an Autocomplete Text Input

Working with Databases, Schema Design, Query Handling, and Migrations

Step 1: Working with Databases in Laravel

- ✓ Database Configuration Settings
- ✓ Managing Read/Write Connections
- ✓ Executing Database Queries
- ✓ Handling Database Transactions
- ✓ Accessing Multiple Database Connections

Step 2: Query Builder Essentials

- ✓ Overview of Query Builder
- ✓ Fetching Data with Select Queries
- ✓ Inserting Records into the Database
- ✓ Updating Existing Records
- ✓ Deleting Data from the Database
- ✓ Executing DML (Data Manipulation Language) Queries

Step 3: Schema Management and Table Structure

- ✓ Creating Database Tables
- ✓ Understanding Column Data Types
- ✓ Working with Special Column Types
- ✓ Applying Column Modifiers
- ✓ Modifying Existing Tables
- ✓ Removing Tables from the Database

Step 4: Database Migrations

- ✓ Understanding Migrations in Laravel
- ✓ Creating and Managing Migrations
- ✓ Rolling Back Database Changes

Eloquent ORM: Managing Data and Relationships

Step 1: Eloquent ORM: Handling Models and Data

- ✓ Creating New Model Instances
- ✓ Retrieving Existing Records
- ✓ Modifying Existing Records
- ✓ Removing Records from the Database

Step 2: Eloquent Query Techniques

- ✓ Structuring Queries Efficiently
- ✓ Using Dynamic (Magic) Queries
- ✓ Defining Query Scopes for Reusability

Step 3: Eloquent Relationships: Managing Data Associations

- ✓ Understanding Different Relationship Types
- ✓ Implementing Relationships Between Models
- ✓ Querying Related Data Effectively

User Authentication in Laravel

- ✓ Overview of Authentication
- ✓ Setting Up and Configuring the Authentication Library
- ✓ Building a User Authentication System
- ✓ Accessing and Updating User Information After Login
- ✓ Controlling Access to Restricted Pages

Managing and Utilizing Data

- ✓ Overview of Data Storage
- ✓ Defining Database Tables with Migrations and Schemas

- ✓ Executing Queries with Raw SQL Statements
- ✓ Using Fluent Query Builder for Database Operations
- ✓ Fetching and Manipulating Data with Eloquent ORM
- ✓ Developing a Complete CRUD (Create, Read, Update, Delete) System

Rendering and Managing Views

- ✓ Introduction to Views in Laravel
- ✓ Creating and Utilizing Basic Views
- ✓ Passing Data Dynamically into Views
- ✓ Embedding One View Inside Another (Nested Views)
- ✓ Including Assets in Views (CSS, JS, Images)
- ✓ Building Views Using Blade Templating Engine
- ✓ Exploring Blade Features and Syntax
- ✓ Designing Navigation Menus in Laravel
- ✓ Integrating Laravel with Bootstrap for Styling
- ✓ Implementing Named Views for Better Management

Working with Composer Packages

- ✓ Overview of Composer in Laravel
- ✓ Installing and Managing External Packages
- ✓ Developing a Custom Composer Package in Laravel
- ✓ Publishing Your Composer Package on Packagist
- ✓ Integrating a Non-Packagist Package with Composer
- ✓ Building a Custom Artisan Command

Enhancing Security and Managing Sessions

- ✓ Overview of Security and Session Handling
- ✓ Working with Basic Sessions
- ✓ Implementing Flash Messages in Sessions
- ✓ Understanding the Difference Between Flash Values and Session Values

Learning Management System

Key Features **Learning Management System**



Live Sessions with Class Recordings

Gain access to interactive live training sessions along with recorded classes to reinforce learning at your own pace.



Expert-Led Training Sessions

Learn from industry experts through structured training sessions designed to enhance your skills and practical knowledge.



Earn Your Training Certificate

Receive an official training certification upon successful course completion to validate your learning and expertise.



Experience Certificate for Professionals

Get an experience certificate based on your hands-on project work and practical assessments.

