

DTI-PSD-105

Laravel Development

Program Information

Python Beginners: Level 1



Nature of the Course
Theory + Practical



Total Hours per Day
2 hours



Course Duration
4 Weeks

Course Summary

Laravel is a popular PHP framework, and this course will show students how to set it up, manage it, and use it to create powerful and dynamic web applications.

Completion Criteria

- After fulfilling all of the following criteria, the student will be deemed to have finished the Module:
- Has attended 90% of all classes held.
- Has received an average grade of 80% on all assignments
- Has received an average of 60% in assessments.
- The tutor believes the student has grasped all of the concepts and is ready to go on to the next module.

Required Textbooks

- Matt Stauffer, "Laravel: Up and Running", O'Reilly.
- Martin Bean, "Laravel 5 Essentials", Packt Publishing.
- Tony Lea, "The Laravel Survival Guide", DevDojo.
- Christopher John Pecoraro, "Mastering Laravel", Packt Publishing

Prerequisites

- Fundamental understanding of programming, bits/bytes, procedures, classes, and computer architecture. It's absolutely acceptable if you only have a theoretical understanding of programming, but you should be certain about what programming is and what you intend to gain from this session.
- If you are only interested in theory and have no interest/patience in spending at least 10 hours every week throughout the duration of the course, then this course might not be for you.
- If you have absolutely no idea about programming or do not see yourself doing programming in the next six -odd months, then this class may not be for you.

Course Details



Week 1

Lesson 1

Installing And Setting Up Laravel

- Introduction to Laravel
 - Concept of Composer
 - Installing and using Composer
 - Installing Laravel using Composer
 - Installing & Using Open-Source Distributed Version Control System (GIT)
 - Concept and use of GitHub
 - Configuring Laravel
 - Project Structure
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Lesson 2

Routing

- Basic Routing
 - Named Routing
 - Grouped Routing
 - Handling Invalid Routes
 - Route Filtering with Middleware
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Week 2

Lesson 1

Controllers

- Introduction
 - Basic Controller
 - Restful Resource Controller
 - Controller Routing
 - Controller Middleware
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Lesson 2

Requests

- Handling Request Information
 - Request Inputs
 - Form Inputs
 - Old Inputs
 - Cookies
 - Files
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Lesson 3

Response

- Attach Headers and Cookie to Response
 - Response with View
 - Response with JSON
 - Response with File
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Week 3

Lesson 1

Database

- Introduction
 - Migration
 - Schema Building
 - Migration Structure
 - Running Migration
 - Writing Migration
 - Seeding
 - Database Configuration
 - Running Raw SQL Queries
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Lesson 2

Model

- Eloquent ORM
 - Defining Model
 - Retrieving Model
 - Insert and Update Model
 - Eloquent Relationships
 - One to One
 - One to Many
 - Many to Many
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Lesson 3

View

- Passing Data into View
 - Sharing Data to all View
 - Blade Template Engine
 - Introduction
 - Template Inheritance 2
 - Data Displaying
 - Implement Control Structures
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Week 4

Lesson 1

Laravel Forms And Html Components

- Introduction
 - Basic Usage
 - CSRF Protection
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Lesson 2

Laravel Services

- Authentication to the Application
 - Configuring Auth Library
 - Moving from Laravel 5 to 6 & 7
 - Artisan Console
 - Laravel Helpers
 - Exception Handling and Error Logging
 - Pagination
 - Validations
 - Validation Approaches
 - Validation Rules with Associating Messages
 - Mail
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Projects

- Basic Laravel Website
 - To-Do List Application
 - Business Listing
 - Photo Gallery and Many More...
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Labs

Lab assignments will focus on the practice and mastery of contents covered in the lectures, and introduce critical and fundamental problem solving techniques to the students.

Learning Outcomes

- Learn how to make and use controllers, as well as what they are.
- Increased understanding on how to use Laravel to create applications
- Laravel setup and installation.

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