Module
Presenter's Manual

for

Laravel Framework

for Web Applications using PHP

Effective from: December, 2021
Ver. 1.0

Amendment Record

Version No.	Effective Date	Change	Replaced Pages
1.0	December 2021	New	-

Table of Contents

1. Introduction

At the end of this course, students will be able to:

➢ Describe the Laravel framework

➢ Describe the need for frameworks

➢ Describe the features of Laravel

➢ View the Laravel Directory structure

➢ Create a simple Web application using fundamentals of Laravel.

➢ Understand how to use Routes to serve different Web pages.

➢ Learn how Views can enhance presentation of an application.

➢ Use the Blade Templating Engine.

➢ Describe the functionalities offered by Eloquent Object Relational Mapping (ORM)

2. Information on Session Allocation

Session	Online Hours	Self Study Hours
Laravel Framework for Web Applications with PHP	**12**	**06**

Throughout this Presenter's Manual, the module Laravel Framework for Web Applications with PHP will be referred to as **Laravel**.

3. Module Deliverables available on OnlineVarsity

To aid the teaching process, following are the deliverables

(*Faculties can access eBooks and other components in Onlinevarsity through Aptrack*.)

Resources available on Onlinevarsity:

Icons	Feature - Description/Functionality
	Download Book - Student has the option to download the subject related e-book and read offline.
	Glossary - Student can access a list of subject related specialized words with their definitions.
	FAQ - Student can access frequently asked questions and their answers.
	Show Me How - Student can view a step-wise simulation/demonstration of the module related topics.
	Practice 4 Me - Student can test and evaluate their understanding of module related topics.
	Work Assignments - Student can solve scenario based lab assignments (Hands-on). The faculty will evaluate and give their feedbacks.
	References - Student can access additional subject related material for reading.
	Feedback - Student can provide feedback on the course material.
	Ask to Learn – Student can submit subject related technical queries. Queries submitted will be directed to the particular course coordinator/head.

4. Week-wise Session Schedule

- **A Session is of 2 hours duration**

➢ **Week-Wise Schedule**

Week	Day 1		Day 2		Day 3	
1	**Session 1 LARAVEL – TL1**		**Session 2 LARAVEL – TL2**	**S1**	**Session 3 LARAVEL – TL3**	
2	**Session 4 LARAVEL – TL4**	**S2**	**Session 5 LARAVEL – TL5**		**Session 6 LARAVEL – TL6**	**S3**

LARAVEL: PHP Framework for Web Applications
TL: Online Session
S: Self Study (over and above the module duation)

5. Session Coverage

Session No.	Session Title	Session Details	Deliverables' Mapping
1	LARAVEL-TL1	All the topics as listed below from Session 1 of *Laravel Framework for Web Applications with PHP* book should be covered in this session. **Session 1 - Setting up the Environment** ➢ Understand Components of Laravel ➢ Learn setting up PHP ➢ Explain setting up Composer ➢ Install VirtualBox ➢ Install vagrant ➢ Learn to set up GitBash ➢ Learn to set up Homestead ➢ Learn to set up Laravel **Session 2 - Introduction to Laravel** ➢ What is Laravel Framework ➢ Identify need for frameworks ➢ Explain features of Laravel ➢ Convention over Configuration ➢ Explain MVC Architecture ➢ Learn Artisan Command for automation ➢ Understand helper functions ➢ Understand Extensive Library ➢ Explore Laravel's Directory Structure ➢ Undersand MVC Design Patterns	**Laravel Framework for Web Applications with PHP** SG - Session 1 & 2 XP – Session 1 & 2 TG – Session 1 & 2
	S1	All the Assignments from Session 1 and Session 2 of *Laravel Framework for Web Applications with PHP* course should be covered in this session.	**Laravel Framework for Web Applications with PHP (Onlinevarsity)** Session 1 & 2

2	LARAVEL-TL2	All the topics as listed below from Session 3 of *Laravel Framework for Web Applications with PHP* book should be covered in this session. **Session 3 - Writing a Simple Application** ➢ Planning out the application ➢ Configuring the Environment ➢ Configuring Homestead ➢ Configuring the hosts file ➢ Creating the laravel applicaiton ➢ Writing your first routes ➢ Creating the dynamic test page(s) ➢ Using Views Utilizing the Blade Templating Engine	**Laravel Framework for Web Applications with PHP** SG - Session 3 XP – Session 3 TG – Session 3
3	LARAVEL-TL3	All the topics as listed below from Session 4 of *Laravel Framework for Web Applications with PHP* book should be covered in this session. **Session 4 – Creating a Web Application** ➢ Creating the Laravel Application ➢ Preparing the database ➢ Configuring the Application ➢ Creating the table schema ➢ Creating Migrations ➢ Creating Web Pages ➢ Writing the Blade Master Layout ➢ Understand the process of adding forms ➢ Create views with forms ➢ Explain how to add Routes	**Laravel Framework for Web Applications with PHP** SG - Session 4 XP – Session 4 TG – Session 4
	S2	All the Assignments from Session 3 and Session 4 of *Laravel Framework for Web Applications with PHP* book should be covered in this session.	**Laravel Framework for Web Applications with PHP (Onlinevarsity)** Session 3 & 4
4	LARAVEL-TL4	All the workshop topics given in Session 1 to Session 4 of *Laravel Framework for Web Applications with PHP* course should be covered in this session.	**Laravel Framework for Web Applications with PHP (Onlinevarsity)** Session 1 to 4

5	LARAVEL-TL5	All the topics as listed below from Session 5 of *Laravel Framework for Web Applications with PHP* book should be covered in this session. **Session 5 - Eloquent ORM** ➢ Explain Eloquent ORM ➢ Learn Eloquent Conventions and the mighty model ➢ Understand Inserting, Retrieving, Saving, and Deleting data ➢ Learn Query Scopes ➢ Understand Modal Events ➢ Learn Relationships and Collections **Session 6 - Implementing CRUD operations** ➢ Learn From routes to controllers ➢ Work with the Resource Controller ➢ Understand Request and Response ➢ Explain basic validations in Controllers ➢ Understanding Session ➢ Adding Pagination ➢ Learn authentication in Laravel	**Laravel Framework for Web Applications with PHP** SG - Session 5 & 6 XP – Session 5 & 6 TG – Session 5 & 6
6	LARAVEL-TL6	All the workshop topics given in Session 5 and Session 6 of *Laravel Framework for Web Applications with PHP* course should be covered in this session.	**Laravel Framework for Web Applications with PHP (Onlinevarsity)** Session 5 & 6
	S3	All the Assignments from Session 5 and Session 6 of *Laravel Framework for Web Applications with PHP* book should be covered in this session.	**Laravel Framework for Web Applications with PHP (Onlinevarsity)** Session 5 & 6

6. Library References

> **Laravel: Up and Running: A Framework for Building Modern PHP Apps**
> by Matt Stauffer

> **Laravel Reference Guide** by Sheikh Heera

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