

# **PHPWeb Development “COURSE STRUCTURE”**

Technology - PHP 8 & MySQL

Duration – 140 Hrs

## **Module 1: HTML, CSS, Javascript, Client Side JQuery, Bootstrap**

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HTML Tags, Table/Div, Forms, Image, Form, CSS syntax, selectors, CSS properties, Javascript concept, Javascript events, various types of validation, JQuery concept, JQuery functions, useful plugins.  
Responsive Web Designing Pattern using Bootstrap-4

## **Module 2: PHP Basics**

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PHP Syntax, Comments, Variables, Value-passing, Conditional-statements, Loops, Arrays, Inbuilt and User-defined functions, Session, Cookies, PHP-Errors.

## **Module 3: Database**

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Database concept, SQL-Query(Create, Insert, Delete, Update, Select[with join]), Fundamental of Normalization [Data Redundancy & Foreign Key Constraints], Trigger and Store Procedure.

## **Module 4: PHP & MySQL Database, AJAX, Server Side JQuery**

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SQL-Query(Create, Insert, Delete, Update, Select[with join] using PHP), file upload, Ajax Concept, CRUD Operations, Query String, Session & AJAX, use of \$.ajax() with example.

## **Module 5: Object Oriented Programming Concept in PHP**

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Object Oriented Programming through PHP with all types of MySql operation, Detail knowledge about class, object, inheritance, polymorphism, different types of variable in a class, encapsulation, Constructor, Destructor, Abstract class, Scalar Type Declaration, Traits, Generator Delegation, Coercive Mode, Namespace-Use, yield-return, Object Oriented Programming with Database Connectivity by PDO..

## **Module 6: MVC Framework, Laravel, Security**

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Code writing in MVC architecture. Knowledge of Codeigniter framework, Basic PHP operation and database operation in Codeigniter, Some Advanced Features in Codeigniter [like Routing, Email Sending etc.]

## Topic 1 : MVC Freamework, Introduction to Laravel

Overview of MVC Framework, Overview of Composer, Overview of PHP Artisan Command, Installing & Configuring Laravel, Hello world Application

## Topic 2 : Laravel basics & Programming

Understanding Structure of Laravel Project, Creating Controller and View, Sending Parameters using Controller and View, Understanding Model, Simple MVC application using BookStore

## Topic 3 : Session, Cookies, File Upload in Laravel

File Upload in Laravel, Session in Laravel, Cookies Implementation in Laravel, Understanding MiddleWare in Laravel.

## Topic 4 : Laravel Advance topic

Understanding Laravel Migration Technique, Understanding Resource Controller, Implementation of Ajax with Laravel.[Basic CRUD Operations], Laravel Relationship [One To Many,Many to Many with example], Basic CRUD OPERATION using Laravel Migration

## Project Development using Laravel framework, Live Hosting

At the end of module 6 students get the expertise to develop an industry standard PHP project. So, at this stage, we provide project works to the students which they execute following a proper Software Development Life Cycle (SDLC), and guide them to make that live at any of the free Hosting Servers.

## Module 7: Web Service

ntroduction to REST API Creation, Implementation of JWT Token in Laravel, Create a TestCase in POST MAN for Token Based Athentication, Make a AJAX Call with Laravel-JWT Login System.

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