

PHP WITH MYSQL



CURRICULUM

» What you will Be Able to Achieve During This Course

This course will enable you to build real-world, dynamic web sites. If you've built websites using plain HTML, you realize the limitation of this approach. Static content from a pure HTML website is just that-static. It says the same unless you physically update it. Your users can't interact with the site in any meaningful fashion.

Using PHP language and database MySQL allows you to make our sites dynamic: To have them be customizable and contain real-time information. In this course, we describe how to approach real-world projects and take you through design planning and building e-commerce based projects. Using this course you are able to develop projects like:

- User authentication and personalization
- Shopping Carts
- Content-management Systems
- Web based email
- Mailing list manager
- Web forums
- PDF document generation, etc...

» Who Should Attend

These are creating dynamic, database-driven web sites. Basic experience with HTML is assumed. Programming such as C or PERL experience is helpful but not required.

» Hands-On Training

In this course, you develop PHP scripts to perform a variety of tasks, culminating in the development of a full database-driven Web page. Exercises include:

- Accessing command line arguments from PHP scripts
- Generating web pages dynamically using PHP
- Retrieving Web Pages manipulating from data
- Personalizing Web site content using Session and Cookies
- Tracking user navigation on your Web site
- File handling with PHP script
- Regular Expression with PHP to Make strong validation
- Object Oriented Concept to make more Powerful Web Application
- Exception Handling
- Integrating database content to generate dynamic Web pages
- Building modular Scripts to enable code reusability

» Introductory Session

- Web Architecture
- Overview of PHP Platform
- Origins of PHP in the open source community

- Why we use PHP?
- Some of PHP's strengths:
- Some of PHP's main competitors are PERL, Microsoft ASP.NET, JavaServer Page
- Availability across multiple platforms
- Installing as a module for Apache Web Server

» Hyper Text Markup Language (HTML)

- Introduction To HTML
- Structure of HTML
- Attributes & Values
- Comments , Header Tags
- Image Tag
- Link Tags (Text & Image)
- Marquee Tag
- List Tag (Ordered & Unordered)
- Table Tag
- Form Tags
- Audio , Video Tags
- About Iframe
- Embedding of Google Maps , You tube videos
- BlockLevel and Inline Elements
- DIV Tag

» HTML5 New Tags

- Header , Footer , Nav
- Section , Article , Aside
- New Form Elements

» Style Sheet (CSS)

- Types of style sheet
- About CSS Selectors
- About CSS Properties
- Background Properties
- Box Properties
- Border Properties
- Positioning Properties
- CSS Menu Design
- CSS Animation

» Bootstrap (Responsive Design)

- Introduction to Responsive Design
- Introduction to Bootstrap
- Bootstrap Grid System
- Grid Classes
- Equal Columns , Unequal Columns
- Layout Creation

» Creating a Web Layout using Div's , CSS &

Bootstrap » PHP language building blocks

- Comparing PHP with other Web scripting languages or technology
- Installation of PHP
- PHP delimiters
- Variable initialization with PHP
- PHP Data types
- PHP Constants
- PHP Operators

» Conditional Statements

- If else
- If else if else
- Nested If
- Switch Case
- Jump Statements (Break , Continue , Exit)

» Looping (Iteration)

- For loop
- While loop
- Do while loop
- Nested Loop

» Introducing ARRAY

- How to use an important programming construct: arrays
 - Numerically Indexed arrays
 - Non-Numerically Indexed arrays (Associative Array)
 - Multidimensional arrays
 - Array sorting

» Manipulation user input

- Presenting the user with input options via different HTML form elements
 - Retrieving form data with \$_POST, \$_GET and \$_REQUEST
- Preserving Data in Form inputs

» Reusing Code and Functions

- Introducing Functions
- Defining functions
- Using parameters
- Understanding scope
- Returning values
- Call By Value & Call By reference
- Reusing Codes
- Implementing recursion
- Using Require() and include()
- Array , String , Math , Date functions
- Super Global Array Variables

» JavaScript (JS)

- Introduction to JavaScript
- Variable , Operators , Conditions
- Looping and Array
- Introduction to functions
- Popup Boxes (Alert ,Confirm ,Prompt)
- Introduction to functions
- Form Handling
- DOM Manipulation
- Pre- defined functions
- Introduction to Objects
- What is property and methods
- String , Math , Navigator , Date , Array , Window
- Objects
 - Introductions to object based technology
 - Class , object , property , inheritance
- Client Side Validation (Regular Expression)

» Introducing with the file system and the Server

- Saving data for later using file system
- Opening a file Creating and Writing to a file
- Creating and Writing to a file
- Closing a file

- Reading from file
- Deleting a file
- Using other useful file functions
- Create a directory
- Remove a directory

» File Uploading & Downloading

- File uploading Concepts
- Multiple File Upload
- Downloading file from server using header.

» String Manipulation and Regular Expression

- Formatting , Joining ,splitting , comparing strings
- Introducing Regular Expression
- REGEX Implementation.

» State Management

- Session, Cookie , Query String
- What Session Control is?
- Understanding Basic Session Functionality
- Starting a Session
- Registering Session variables
- Using Session Variables
- Destroying the variables and Session
- What is a Cookie?
- Setting Cookies with PHP
- Using Cookies with Sessions
- Deleting Cookies
- Implementing Query String

» MySQL Database

- Relational Database Concept and technology
- Web Database Design
- Web Database Architecture
- Creating a MySQL Database
- Creating Database Tables
- Column Data Types
- Implementing Insert/Delete/Update and select Query
- Aggregate Functions
- Having and Group By Clause
- Joining Table
- Implementing Primary key, Unique Key, Composite key, foreign key, default constraint etc.
- Joining Table
- Dropping Tables and Databases
- Introduction to Phpmyadmin

» Database Connection

- Mysqli connectivity
- Procedural Connectivity
- Object Oriented Connectivity
- PDO (Php Data Object) Connectivity

» JQuery with AJAX

- jQuery introduction
- jQuery Selectors , events , DOM , animations
- jQuery accordions, carousel, tab
- jQuery conflict
- Ajax Implementation
- CRUD Operation with AJAX

» Object Oriented PHP

- Object oriented concepts
- Classes, objects and operations
- Class attributes
- Access Modifier
- Constructor & Destructor
- Inheritance
- Static method
- Type Hinting
- Object Cloning
- Abstract class
- Final keyword
- Inheritance
- Implementing interface
- Understanding Advance and New Object Oriented functionality
- Magic functions with PHP

» Advance PHP Techniques

- Implementing Captcha
- PDF Generation
- Excel or CSV Generation
- Email with PHP
- Implementing Pagination
- SQL Injection
- Web Services with JSON
- Payment Gateway Integration
- Http Headers & Output Buffering
- Error tracking and debugging
- Exception Handling

» Developing a dynamic web application

» Web Hosting

- Manage Domain with name server
- Manage Web Hosting from FTP and CPANEL
- Managing Database, Email Accounts, Sub Domains etc.
- Live your project.

ADVANCE PHP

CODEIGNITER

- » Introduction to CodeIgniter
- » Why Framework
- » Introduction to MVC
- » Folder Structure
- » Configuration Setting

» Routing

» Controllers

- Introduction Of Controller
- CI_ Controller , Request Parameters ,Actions
- Controller Methods & Attributes
- Creating Core Controller Class

» Views

- Creating Views
- Layouts (Use Image, CSS, Bootstrap, JS)
- Calling in controller
- Helpers (FormHelper , HTML Helpers) in Views

» Models

- Creating Model
- How to Load in controller
- Calling in Controller
- Apply The Business logic
- Creating Core Model Class

» Helpers

- Introduction
- How to load Helper
- Apply To Controller and Views
- Creating Own Helper
- How to override other Helper

» Libraries

- Introduction
- How to load Library
- Apply to Controller and Model
- Creating Own Library
- How to override other Libraries

» Database

- Introduction
- How to Configure
- Active Records and Query Builder
- CRUDS operation (Create Insert Update Delete and Search)

- » **Form Validation , Session , Pagination , Uploading**
- » **Autoload Configuration Setting**
- » **How to Remove index.php in URL**
- » **Security Features**
- » **Project Implementation in Code Igniter**

LARAVEL

» Introduction of Laravel PHP Framework

- Introduction of LARAVEL
- Installing Laravel
- Introduction of MVC Pattern
- Laravel Directory Structure

» Setting up a sample project ' Hello World '

- Artisan command to generate a controller
- Basic routing
- Call a controller method from a route
- Passing variables from controllers to views

» HTML to Laravel Blade Syntax

- Display Images
- Make Anchor
- Displaying Variables
- Conditional Statements
- Loop in blade
- PHP function
- Build Your Master layout
- Extending the master layout
- nested views
- Include Views
- Adding assets

» Using Forms and Gathering Input

- Adding HTML 5 Package
- Creating A form using Blade Syntax
- Validating user input
- File Uploading
- Error message Handling
- Encrypting and decrypting data
- Preserving the data

» Using Controllers and Routes for URLs

- Introduction
- Creating a basic controller
- Creating a route using a closure
- Making the controller As a routing
- Using route groups
- Using route resource

» Database Connectivity

- Introduction Model
- Type of Database using
- Eloquent ORM Model
- Naming Convention

- Table name
- Primary key
- Timestamps
- Use model
- Display data from models in views
- Manage Mass Assignment
- CRUDS Operation (Create Read Update Delete Search Operations)
- Fluent
- Simple Query String
- CRUDS Operation (Create Read Update Delete Search Operations)
- Query Builder
 - CRUDS Operation (Create Read Update Delete Search Operations)

» Security & Session

- Removing Public from URL
- Sessions Effective

» Laravel Project : (Any Project)

WORDPRESS

- CMS Introduction
- Getting Started with Wordpress
 - Installation
- Setup Your Profile
- Wordpress Structure

» Creating Content with Wordpress

- Wordpress Posts Vs. Pages
- Categories Vs. Tags
- Media Manager
- Create Custom Menus

» Customizing Your Wordpress Site

- How to Use Themes
- Customize theme
- How to use Plugins and Widgets
- Using Wordpress Screen Options
- Managing Wordpress Comments

» Wordpress Site Management

- Upgrading Wordpress
- Move Web Content with Wordpress Import and Export
- Managing User Roles
- Wordpress Security Briefing

» **Wordpress Setting**

- WordPress General Settings
- WordPress Writing Settings
- WordPress Reading Settings
- WordPress Discussion Settings
- WordPress Media Settings
- How to Use WordPress Permalinks

» **Theme Customization**

- How to customize a theme
- What is a Child Theme and How to Create and Use it
- How to create Custom page, category templates

» **Wordpress Plugins**

- How to install a plugin
- How to modify the plugin
- How to develop a simple plugin
- How to Connect your plugin with database

» **Implementing Woo Commerce**

- Host Your Wordpress Website

MAGENTO

» **Magento introduction , installation**

- Features of magento
- Introduction of Magento
- Setup php.ini for magento installation

» **Installing,Setup a theme**

- Magento themes
- Installing a theme
- Activating,Setup Theme
- Making changes to your theme

» **Magento Directory Structure**

- Disabling cache for theming
- Magento directory structure
- Layout and templates
- Showing template path hint

» **Categories,Subcategories and products**

- Categories from admin panel
- Understanding Root vs Sub category
- Creating Categories,subcategories

» **Creating products**

- Creating a Product
- Magento Product Types
- Simple Product
- Configurable Product
- Grouped Product
- Bundled Product
- Virtual Product
- Downloadable Product

» **Block, Widgets, CMS PAGE**

- Display products in the homepage
- Creating CMS Pages
- Static blocks
- Creating Widgets
- Adding CMS page to top category menu

» **Attributes**

- Understanding Attributes
- Attribute Sets
- Creating Attribute : Size (S,M,L,XL,XXL)
- Creating a product and assigning an attribute set
- Understanding Related products, up-selling, and cross-selling

» **Creating Multiple Store**

- Setup and manage multiple store

» **Creating Multi Language Site**

» **Using some free Extensions/Modules**

- Using Banner slider module
- Using Product Quick View module

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- Typescript Classes
- Typescript Array ,String ,Tuples, Union
- Interface
- Inheritance
- Constants and scoped variables
- Arrow function
- Template String
- Modules

Introduction

- Anatomy of an Angular 2 Application
- Get the Most from This Course
- Sample Application

First Things First

- Selecting a Language
- Selecting an Editor
- Setting up Our Environment
- Setting up an Angular 2 Application
- Running an Angular 2 Application
- About Modules