

PHP & My SQL

Duration-4-6 Months

Overview of the PHP & My SQL

- Introduction of different Web Technology

Working with the web

- Client / Server Programs
- Server Communication
- Sessions
- Cookies
- Typed Languages
- What is PHP
- PHP: Benefits to RPG Programmers
- Introduction to PHP Syntax
- How PHP works with HTML
- Basic HTML Elements

Configuring PHP

- Setting Up a Development Environment
- PHP.INI Settings

Introduction to PHP

- Comments
- Variables and Data Types
- Constants
- Global
- Strings
- Arrays
- References
- Variable References
- Scope

Operators

- Operators and Conditional Statements
- Combining Operators
- String Operators
- Comparison Operators
- Logical Operators
- Conditionals

Looping, Condition and Statements

- for
- while
- do-while
- Switch
- continue
- Break
- If-Else , Nested If-Else
- Foreach

Function basics

- Types of Functions
- Calling Functions
- Declaring Functions
- Function Inputs
- Function Outputs
- Internal Functions

Types of Error in PHP:

- Understand the Basic syntax and Parse error
- Know the different Notice error in PHP
- Warning errors in PHP
- Fatal error in PHP
- Difference Between fatal error and warning with example

- How to solve errors with debugging concept in PHP
- Understand error reporting in php.ini file
- Difference between include() function and include_once() function
- Difference between require() function and require_once() function
- Difference between include() and require() function

PHP and Data Sources

- Connecting PHP and MySQL
- Relational Database
- SQL and MySQL
- Running MySQL
- DB Access using the PHP

File Handling In PHP

- Including File
- File System Basics
- Types of File Functions
- Opening Files
- Reading from Files
- Writing to Files
- Closing Files
- File System Performance

PHP Web Concepts

- Server Communication
- HTTP Headers
- Output Buffering
- Browser Caching
- Cookies
- Sessions
- Email
- Forms

PHP Object-Oriented Programming

- Classes
- Static Context
- Visibility (PPP)
- Overriding Functions
- Interfaces
- Namespaces

Critical Aspects Of Building Php Applications

- Testing and Debugging
- Troubleshooting Procedures: Development
- phpDocumentor, phpDoc
- Exceptions
- Web Services
- Performance Enhancements
- Security and Validation

HTML

- Basic HTML
- Overview
- Elements
- Formatting
- Meta Tags
- Comments, Images, Tables, Lists
- Hyperlinks, Image Links
- IFrames
- Blocks
- Backgrounds, Fonts, Forms, Color
- Embedded Multimedia
- Marques
- Header

CSS (Cascading Style Sheet)

- Introduction to CSS
- Syntaxes
- Inclusion, Measurement Units
- Colors, Backgrounds
- Fonts, Text, Images, Links
- Tables
- Borders, Margins, Lists, Padding
- Cursors, Outlines, Dimensions
- Scrollbars
- Visibility

Java Script

- Introduction to client side scripting
- Syntax Basics
 - ◆ JS Statements
 - ◆ JS comments
 - ◆ JS variables
 - ◆ JS Data types
 - ◆ JS Operators
- JS Objects
 - ◆ JS String Functions(most use)
 - ◆ JS math functions(most use)
 - ◆ JS Date(most use)
 - ◆ JS Array(most use)
 - ◆ JS user define functions
- JS Document Object Model
 - ◆ Introduction
 - ◆ DOM HTML
 - ◆ DOM CSS
 - ◆ DOM Events

- JS Browser Object Model
 - ◆ JS Cookies
 - ◆ JS Popup
 - ◆ JS time, Date
- JS Implementations
 - ◆ Searching.
 - ◆ Pagination
 - ◆ Captcha
 - ◆ Validation
 - ◆ Calendar

AJAX

- Introduction
- XML HTTP Request Object
- Creating a Request to Object
- Sending a request to Server
- Receiving a response from Server
- Ready State and Status of a request .

jQuery

- Introduction and Installation
- Syntax
- jQuery Events
- jQuery Effects
 - ◆ jQuery Hide and Show effects
 - ◆ jQuery Fade effect
 - ◆ jQuery Slide effect
 - ◆ jQuery Animate
- jquery callback

- jQuery and HTML
 - ◆ jQuery Get
 - ◆ jQuery Set
 - ◆ jQuery And
 - ◆ jQuery Remove
 - ◆ jQuery CSS
- jQuery UI
 - ◆ Implementing Date picker
 - ◆ Implementing Slider
 - ◆ Implementing Progress bar
 - ◆ Implementing Tabs

PHP Framework

- Introduction to CakePHP
- Understanding the MVC Pattern Models
- How MVC works?
- Configuration CakePHP
- Setting up CakePHP with apache Environment eg. Enable mod_rewrite
- Configuration CakePHP to work with database
- Running Cake for the first time
- Cake Convention: Naming convention for MVC and database tables

Case Studies

- Add,edit,inline,edit,delete,pagination,file
- Upload and download
- Online chat
- Login,registration
- Captcha validation
- Payment Gateway addition
- PDF generation
- Email with PHP

Project Development