

Day - 1

- **Introduction - PHP**

- Introduction
- Intended Audience
- History of PHP
- What's Possible?
- Sample Programs
- Reserved Keywords

- **General/Data Type**

- What are the basic commands in Selenium?
- Intended Audience
- History of PHP
- What's Possible?
- Sample Programs
- Reserved Keywords

- **Functions**

- What Is a Function?
- Creating a Function
- Calling a Function
- Passing Parameters
- Default Parameters
- Returning Values
- Variable Functions
- Variable Scope
- Global Variables

- **String**

- Single Quoted Strings
- Double Quoted Strings
- Here Document
- print()
- Changing Case
- strlen()
- strpos()
- str_replace()
- substr()
- str_split()

- **Arrays**

- overview
- About Arrays
- Indexed Arrays
- Associative Arrays
- array_key_exists()
- in_array()
- array_push()
- array_pop()
- unset()
- Sorting Arrays
- count()
- Foreach Loop
- Multi-dimensional Array

- **Classes & Object**

- Creating a Simple Class
- Creating an Object
- Creating Properties
- Accessing Properties
- Creating Constants
- Accessing Constants
- Creating Methods
- \$this
- Accessing Methods
- Constructors
- Initial Parameter Passing
- Inheritance
- Protected Properties
- Private Properties
- Static Properties & Methods
- Scope Resolution Operator ::
- Include File
- Require File

- **Operators and Control Structures**

- Arithmetic Operators
- Incrementing/Decrementing Operators
- Assignment Operators
- String Operator
- Comparison Operators
- Spaceship Operator
- Logical Operators
- If Statement
- Else If
- Switch Statement
- Ternary Operator
- Null Coalesce Operator
- While Loop
- For Loop

- **Database**

- Possible Databases
- PDO vs. MySQLi
- Setting up MySQL on Windows
- Creating a Database and Table with phpMyAdmin
- Connecting to Database
- Close Database Connection
- Executing a Query - Delete, Update, Insert
- Grabbing Inserted Id
- Select Data From Database
- Prepared Statement Example
- PDO Example

Day - 2

- **Web Programming**

- Setup Web Site Location - Linux
- Setup Web Site Location - Windows
- Web Site Structure and Layout
- Shorten Syntax with HTML
- \$_GET
- \$_POST
- Form Validation
- session_start()
- \$_SESSION
- session_destroy()

- **PHP - TOAST**

- Setup Web Site Location - Linux
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- **Building the LAMP Stack**

- Introduction
- Installation
- Alternatives
- Accessing Form Data with PHP
- HTML forms
- Demo: Creating a Form
- Accessing Form Data with PHP
- Validating User Input
- Demonstration -- Input Validation

- **The Lending Library's Database**

- Designing the Database
- Creating and Populating the Database
- Querying and Updating the Database
- Accessing a Database from PHP

- **Introducing PDO**

- Connecting to the Database
- Book Search Demonstration
- Quoting and Input Validation
- Mysqli

- **Doing More with the Database**

- Using Prepared Statements
- Non-queries and Summary Functions
- Creating and Using Stored Procedures and Functions

- **Maintaining State in Web Applications**

- The Problem of Maintaining State
- PHP Sessions
- Using Hidden Fields
- Using Cookies
- The Library: User Preferences and Shopping Carts

- **RESTfull Web Services With PHP and Laravel**

- Introduction
- Course Structure
- What are RESTful Services?
- Demo Overview
- Postman Setup & Demo
- Demo: Course Project
- Refresher on RESTful Services
- Refresher on Laravel & Setting Laravel Up
- Demo: Course Project Setup
- Cross-origin Resource Sharing (CORS)
- Wrap Up