

Diplomado Website Programming with PHP and MySQL



Actualmente ofrecemos entrenamiento en PHP 5.0 en conjunto con MySQL 5.0 a través de nuestro *Diplomado Website Programming with PHP 5.0 & MySQL 5.0*. En este diplomado se enseña todo para crear un sitio Web completo, desde cómo organizar un sitio hasta cómo instalar SSL para seguridad, se crean muchos ejercicios reales como registro de información de clientes a una base de datos, foros de discusión, envío de correo,

manejo de usuarios y sesiones, seguimiento de visitas, encuestas en línea listas de correo y noticias, carro de compras, etc. Para alguien que desea aprender algo más que sentencias if o while en PHP éste es un entrenamiento a considerar.

Este Diplomado tiene como objetivo enseñar al alumno a programar un Website completo y funcional desde cero utilizando PHP y MySQL. Al igual que nuestros otros diplomados ofrece un entrenamiento INTEGRAL y de los más completos, a tal grado que el alumno termina el diplomado con código listo para usarse y al mismo tiempo que permite reducir el costo de entrenamiento y lo más importante reducir el tiempo que invertiría en tomar diferentes cursos de cada tema.

El diplomado pretende ser 60% práctico y permite al alumno desarrollar durante el diplomado un Website completamente funcional con características como manejo de usuarios y sesiones, seguimiento de visitas, encuestas en línea, foros de discusión, listas de correo y noticias, carro de compras, etc.

CONTENIDO

Módulo I.- Planning the Web Site

Introduction
Planning the Web Site
What is HTTP?
What is Apache?
What is MySQL?
What is PHP?

Módulo II.- Mastering PHP

II.1. PHP basis

Using PHP.
Embedding PHP in HTML.
Adding Dynamic Content.
Accessing Form Variables.
Identifiers.
User Declared Variables.
Assigning Values to Variables.
Variable Types.
Constants.
Variable Scope.
Operators.
Using Operators:
Working Out the Form Totals.
Precedence and Associativity: Evaluating Expressions.
Variable Functions.
Control Structures.
Making Decisions with Conditionals.
Iteration: Repeating Actions.
Breaking Out of a Control Structure or Script.

II.2. Storing and Retrieving Data.

Saving Data for Later.
Storing and Retrieving.
Overview of File Processing.
Opening a File.
Writing to a File.
Closing a File.
Reading from a File.
Other Useful File Functions.
File Locking.
Database Management Systems.

II.3. Using Arrays.

What Is an Array?
Numerically Indexed Arrays.
Associative Arrays.
Multidimensional Arrays.
Sorting Arrays.
Sorting Multidimensional Arrays.
Reordering Arrays.
Loading Arrays from Files.
Other Array Manipulations.

II.4. String Manipulation and Regular Expressions.

Example Application: Smart Form Mail.
Formatting Strings.
Joining and Splitting Strings with String Functions.
Comparing Strings.
Matching and Replacing Substrings with String Functions.
Introduction to Regular Expressions.
Finding Substrings with Regular Expressions.
Replacing Substrings with Regular Expressions.
Splitting Strings with Regular Expressions.
Comparison of String Functions and Regular Expression Functions.

II.5. Reusing Code and Writing Functions.

Why Reuse Code?
Using require() and include().
Using require() for Web Site Templates.
Using Functions in PHP.
Why Should You Define Your Own Functions?
Basic Function Structure.
Parameters.
Scope. Pass by Reference Versus Pass by Value.
Returning from Functions.
Returning Values from Functions.
Recursion.

II.6. Object-Oriented PHP.

Object-Oriented Concepts.
Creating Classes, Attributes, Operations in PHP.
Instantiation. Using Class Attributes.
Calling Class Operations.
Implementing Inheritance in PHP.
Designing Classes.
Writing the Code for Your Class.

Módulo III.- MySQL

III.1. Designing Your Web Database.

Relational Database Concepts.
How to Design Your Web Database.
Web Database Architecture.

III.2. Creating Your Web Database.

A Note on Using the MySQL Monitor.
How to Log in to MySQL.
Creating Databases and Users.
Users and Privileges.
Introduction to MySQL's Privilege System.
Setting Up a User for the Web. Using the Right Database.
Creating Database Tables.
MySQL Identifiers.
Column Data Types.

III.3. Working with Your MySQL Database.

Inserting Data into the Database.
Retrieving Data from the Database.
Updating Records in the Database.
Altering Tables After Creation.
Deleting Records from the Database.
Dropping Tables.
Dropping a Whole Database.

III.4. Accessing Your MySQL Database from the Web with PHP.

How Web Database Architectures Work.
The Basic Steps in Querying a Database from the Web.
Checking and Filtering Input Data. Setting Up a Connection.
Choosing a Database to Use.
Querying the Database.
Retrieving the Query Results.
Disconnecting from the Database.
Putting New Information in the Database.
Other Useful PHP-MySQL Functions.
Other PHP-Database Interfaces.
Using a Generic Database Interface: PEAR DB.

III.5. Advanced MySQL.

Understanding the Privilege System in Detail.
Making Your MySQL Database Secure.
Getting More Information About Databases.
Speeding Up Queries with Indexes.
General Optimization Tips.
Different Table Types.
Loading Data from a File.
Backing Up Your MySQL Database.
Restoring Your MySQL Database

Módulo IV.- Ecommerce and Security.

IV.1. Running an E-commerce Site.

What Do You Want to Achieve?
Types of Commercial Web Sites.
Risks and Threats.
Deciding on a Strategy.

IV.2. E-commerce Security Issues.

How Important Is Your Information?
Security Threats.
Balancing Usability, Performance, Cost, and Security.
Creating a Security Policy.
Authentication Principles.
Using Authentication.
Encryption Basics.
Private Key Encryption.
Public Key Encryption.
Digital Signatures.
Digital Certificates.
Secure Web Servers.
Auditing and Logging.
Firewalls.
Backing Up Data.
Physical Security.

IV.3. Implementing Authentication with PHP and MySQL.

Identifying Visitors.
Implementing Access Control.
Basic Authentication.
Using Basic Authentication in PHP.
Using Basic Authentication with Apache's .htaccess Files.
Using Basic Authentication with IIS.
Using mod_auth_mysql Authentication.
Creating Your Own Custom Authentication.

IV.4. Implementing Secure Transactions with PHP and MySQL.

Providing Secure Transactions.
Using Secure Sockets Layer (SSL).
Screening User Input.
Providing Secure Storage.
Using Encryption in PHP.

Módulo V.- Advanced PHP Techniques.

V.1. Interacting with the File System and the Server.

Introduction to File Upload.
Using Directory Functions.
Interacting with the File System.
Using Program Execution Functions.
Interacting with the Environment: getenv() and putenv().

V.2. Using Network and Protocol Functions.

Overview of Protocols.
Sending and Reading Email.
Using Other Web Sites.
Using Network Lookup Functions.
Using FTP.
Generic Network Communications with cURL.

V.3. Managing the Date and Time.

Getting the Date and Time from PHP.
Converting Between PHP and MySQL Date Formats.
Date Calculations.
Using the Calendar Functions.

V.4. Generating Images.

Setting Up Image Support in PHP.
Image Formats.
Creating Images.
Using Automatically Generated Images in Other Pages.
Using Text and Fonts to Create Images.
Drawing Figures and Graphing Data.
Other Image Functions.

V.5. Using Session Control in PHP.

What Session Control Is.
Basic Session Functionality.
Implementing Simple Sessions.
Simple Session Example.
Configuring Session Control.
Implementing Authentication with Session Control.

V.6. Other Useful Features.

Using Magic Quotes.
Evaluating Strings: eval().
Terminating Execution: die and exit.
Serialization.
Getting Information About the PHP Environment.
Loading Extensions Dynamically.
Temporarily Altering the Runtime Environment.

Módulo VI.- Building Practical PHP and MySQL projects.

VI.1. Using PHP and MySQL for Large Projects.

Applying Software Engineering to Web Development.
Planning and Running a Web Application Project.
Reusing Code. Writing Maintainable Code.
Implementing Version Control.
Choosing a Development Environment.
Documenting Your Projects.
Prototyping.
Separating Logic and Content.
Optimizing Code.
Testing.

VI.2. Debugging.

Programming Errors.
Variable Debugging Aid.
Error Reporting Levels.
Altering the Error Reporting Settings.
Triggering Your Own Errors.
Handling Errors Gracefully.

VI.3 Building User Authentication and Personalization.

The Problem.
Solution Components.
Solution Overview.
Implementing the Database.
Implementing the Basic Site.
Implementing User Authentication.
Implementing Bookmark Storage and Retrieval.
Implementing Recommendations.
Wrapping Up and Possible Extensions.

VI.4 Building a Shopping Cart.

The Problem. Solution Components.
Solution Overview.
Implementing the Database.
Implementing the Online Catalog.
Implementing the Shopping Cart.
Implementing Payment.
Implementing an Administration Interface.
Extending the Project.
Using an Existing System.

VI.5. Building a Content Management System.

The Problem.
Solution Requirements.
Editing Content.
Using Metadata.
Formatting the Output.
Image Manipulation.
Solution Design/Overview.
Designing the Database.
Implementation.
Extending the Project.

VI.6. Building a Web-Based Email Service.

The Problem.
Solution Components.
Solution Overview.
Setting Up the Database.
Script Architecture.
Logging In and Out.
Setting Up Accounts.
Reading Mail.
Sending Mail.
Extending the Project.

VI.7 Building a Mailing List Manager.

The Problem.
Solution Components.
Solution Overview.
Setting Up the Database.
Script Architecture.
Implementing Login.
Implementing User Functions.
Implementing Administrative Functions.
Extending the Project.

VI.8 Building Web Forums.

The Problem.
Solution Components.
Solution Overview.
Designing the Database.
Viewing the Tree of Articles.
Viewing Individual Articles.
Adding New Articles.
Extensions.

VI.9. Generating Personalized Documents in Portable Document Format (PDF).

The Problem.
Evaluating Document Formats.
Solution Components.
Solution Overview.
Problems with Headers.
Extending the Project.

VI.10 Connecting to Web Services with XML and SOAP.

The Problem.
Understanding XML.
Understanding Web Services.
Solution Components.
Solution Overview.
Installing the Project Code.
Extending the Project.



Requisitos:

Indispensable manejo de ambiente Windows. Se recomienda conocimientos previos de programación en cualquier lenguaje.

Duración aproximada:

120 horas

Lugar:

Altadena 26. Col. Nápoles, México, D .F.

Formas de pago:

El pago del diplomado debe realizarse con 2 semanas de anticipación. Este pago puede realizarse a cualquiera de las siguientes cuentas:

- a) Depósito Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S.A. de C.V.
- b) Depósito Bancomer cuenta 00140651249 a nombre de Main Consultoría y Desarrollo de Sistemas S. C. o con cheque a nombre de
- c) Desarrollo y Capacitación en Internet S.A de C.V.

Incluye:

Creación de un proyecto real a lo largo del diplomado, material de los cursos, mochila, estacionamiento y servicio de cafetería.

DCInternet