



## 4. Web Development

### 4.12 Magento

#### Prerequisites:

1. Core/Advance PHP
2. OOPs
3. HTML, CSS & JavaScript

**Duration:** 60 Lectures

#### Course Content:

##### 1. Introduction

- 1.1. What is Magento?
- 1.2. OOP and MVC concepts
- 1.3. Magento Architecture
- 1.4. Magento directory structure
- 1.5. Naming conventions
- 1.6. Namespaces

##### 2. Architecture

- 2.1. Module structure
- 2.2. Configuration XML
- 2.3. Class overrides
- 2.4. Event observer
- 2.5. Request Flow
- 2.6. Application initialization
- 2.7. Front controller
- 2.8. URL rewrites
- 2.9. Request routing



- 2.10. Modules initialization
- 2.11. Design and layout initialization
- 2.12. Structure of block templates

## 3. Rendering

- 3.1. Template structure
- 3.2. Blocks
- 3.3. Design layout SML schema
- 3.4. CMS content directives
- 3.5. Write, install and upgrade scripts using set up resources
- 3.6. Working with Database in Magento
- 3.7. Models resource and collections
- 3.8. Magento Object Relational Mapping

## 4. Entity Attribute Value Model

- 4.1. Model concepts
- 4.2. EAV entity
- 4.3. Common structure/architecture
- 4.4. Form and Grid Widgets
- 4.5. ACL (permissions)
- 4.6. System configuration XML and configuration scope
- 4.7. Enabling and configuring extensions
- 4.8. Load and Save
- 4.9. Attributes management
- 4.10. AdminHTML

## 5. Flow

- 5.1. Code Pools
- 5.2. Initial XML File and Main XML File
- 5.3. Defining and creating Controllers
- 5.4. Module Skeleton
- 5.5. Add Method
- 5.6. Define layout update file



- 5.7. Layout Implementation
- 5.8. Creating and defining blocks
- 5.9. Templates
- 5.10. Skins
- 5.11. Themes
- 5.12. Rendering

## 6. Resource Model

- 6.1. Create the Layout Update File
- 6.2. Create a Template for the Frontend
- 6.3. Register the Observer
- 6.4. Create the Observer
- 6.5. Explore Model and Resource Model
- 6.6. Defining and creating the Setup Script
- 6.7. Define and creating Model and the Resource ModelDisplay Comments Collection
- 6.8. Create a Collection
- 6.9. Display Single Comment
- 6.10. Explore Collections

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