



## 4. Web Development

### 4.11 Zend Framework

#### Prerequisites:

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

**Duration:** 30 Lectures

#### Course Content:

##### 1. Introduction

- 1.1. Zend Framework & Essential Concepts
- 1.2. Zend Framework Key Features
- 1.3. Zend Framework Architecture
- 1.4. How Zend Framework Works
- 1.5. Zend Framework Architecture and MVC
- 1.6. Decoupling
- 1.7. Namespaces
- 1.8. Auto loading

##### 2. Design Patterns and MVC

- 2.1. Design Patterns
- 2.2. MVC Elements and Implementation
- 2.3. Event-Drive Architecture
- 2.4. Key MVC Events
- 2.5. Services in MVC

##### 3. Event Manager & Shared Event Manager



- 3.1. Event Manager (EM)
- 3.2. Trigger Events
- 3.3. Available Methods
- 3.4. Aggregates
- 3.5. Shared Event Listeners
- 3.6. Identifiers
- 3.7. Shared Event Manager (SEM)

## 4. Service Manager

- 4.1. Service Manager (SM)
- 4.2. Service Types
- 4.3. Configuring Services

## 5. MVC & Models

- 5.1. Structure of an Application
- 5.2. Modules in MVC
- 5.3. Structure of a Module
- 5.4. Bootstrapping a Modular Application
- 5.5. Events
- 5.6. MVC-related Module Configuration
- 5.7. Zend\Module Manager
- 5.8. Module Manager Events and Listeners
- 5.9. Autoload Files for Modules
- 5.10. Module Classes
- 5.11. MVC 'bootstrap' Event
- 5.12. ModuleAutoloader and DefaultListenerAggregate
- 5.13. Module Best Practices

## 6. Controllers

- 6.1. MVC Events and Controllers
- 6.2. MVC-based Action Controllers
- 6.3. AbstractActionControllers Interfaces
- 6.4. Controller Plugins



- 6.5. Accessing a Request and Response
- 6.6. Registering Module-specific Listeners

## 7. Routing

- 7.1. Routing Basics
- 7.2. Zend Framework Router Types
- 7.3. Zend Framework HTTP Route Types

## 8. View Layer

- 8.1. Zend\View
- 8.2. View Model
- 8.3. Layouts
- 8.4. Alternate Rendering & Response Strategies
- 8.5. PHP Renderer
- 8.6. View Helpers

## 9. Input Validation

- 9.1. Zend\InputFilter\Input
- 9.2. Zend\Validator
- 9.3. Filtering
- 9.4. Zend\Form
- 9.5. Validating Forms
- 9.6. Rendering Forms

## 10. Database

- 10.1. Zend\Db\Adapter
- 10.2. Creating an Adapter: Quick Start
- 10.3. Query Preparation & Execution
- 10.4. Creating Statements
- 10.5. Zend\Db\Sql
- 10.6. Zend\Db\TableGateway



## 11. Crud operations

11.1. Console base crud operations

11.2. Like add/update/delete with example module (testimonial)



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