## Advanced ASP.NET MVC 5 Training Course

### MVC Techniques

* Controller techniques
* Defining filters
* Implementing compression
* Model binding techniques

### Client and Server Platform Features

* Caching
* Globalization and localization
* HTML5 semantic tags
* HTML5 accessibility
* Search Engine Optimization

### Error Handling, Logging, and Monitoring

* Getting started with code contracts
* Using code contracts
* Handling errors
* Implementing logging and monitoring

### Dependency Injection

* DI concepts
* DI techniques in ASP.NET MVC 6
* Design and architecture considerations

### Test Driven Development with ASP.NET MVC

* Recap of TDD
* Introduction to xUnit.NET
* Walk-through of using TDD with ASP.NET MVC 6

### Web Sockets

* Understanding web sockets
* Defining a web sockets server
* Defining a web sockets client
* Using SignalR

### Implementing Middleware components

* Overview of the HTTP pipeline
* Overview of OWIN
* Implementing OWIN middleware components

### Designing and Implementing Security

* Overview of authentication
* Implementing Windows authentication
* Implementing forms authentication
* Implementing OAuth authentication

### Additional Security Techniques

* Implementing claims-based authentication
* Managing data integrity
* Implementing a secure site

### Windows Azure Development

* Windows Azure concepts
* Windows Azure architecture and components
* Creating a cloud service application
* Running a cloud service application

### Deploying Services to Azure

* Web Deploy using Visual Studio
* Web deployment packages
* Command-line tools for Web Deploy
* Deploying to Windows Azure

### Learning Objective

* TDD with xUnit.net & ASP.NET MVC
* Advanced Controller and View Techniques
* MVC Dependency Injection
* Implementing OWIN Middleware Components
* Creating full-duplex WebSockets solutions
* MVC 6 security
* Developing and deploying Azure solutions