Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for MVC with Web API

Given below is the brief description for the course you are looking for:

<u>MVC 5.0 with Web API 2 and Angular</u>

Theory of MVC

- ➢ Introduction of MVC
- ➢ Life Cycle of MVC
- ➢ MVC as a design pattern
- ➢ Difference between Web Form and MVC

Sql Server basics

- ➢ Introduction of Sql server
- ➢ Best practises for database design
- ➢ Database emailing

Controller in MVC

- ➢ Introduction of Controller
- ➢ Example of Controller
- ➢ Actions in controllers
- ➢ Mapping with Global file

View in MVC

- ➢ Introduction of View with example
- ➢ Introduction of Razor Engine
- ➢ Work with Form Tag using Action and Method in MVC
- ➢ Example of GET and POST Method in View
- ➢ Partial and Strongly view

Controller and View

➢ Relationship between View and Controller
➢ Access values from View (Controls) in Controller using Form Collection
➢ Access values from View (Controls) in Controller using Request
➢ Access values from View (Controls) in Controller using Parameter
➢ Insertion of Data using View and Controller in Database

Razor View Engine

➢ Programming syntax in Razor(C#)
➢ Use of variable in Razor

➢ Use of condition statement in Razor
➢ Use of Looping in Razor
➢ Switching in Razor
➢ Use of object in Razor

Model in MVC

➢ ViewBag and ViewData
➢ Model in MVC
➢ Strongly View using Model
➢ Pass data from controller to view and View to controller using model
➢ TempData in MVC
➢ UpdateModel and TryUpdateModel
➢ ModelState
➢ Model Validation
➢ Prepare business logic using EF
➢ Complex Models

Model in MVC

➢ Routing in MVC

➢ Attribute based routing

Work with HTML Helper Classes
➢ Introduction and Role of HTML Helper classes in MVC
➢ Controls creating using HTML Helper class like Label, Textbox, ActionLink, DropDownList, Checkbox, button, file uploader etc
➢ Custom HTML Helper classes

Layout Implementation
➢ Implementation of Layout
➢ ViewStart in MVC
➢ Named Section in MVC

Validation in MVC
➢ Server Side Validation
➢ Client Side Validation

Scaffolding in MVC
➢ Create Form using Scaffolding
➢ List using scaffolding
➢ Edit, Update and Delete using Scaffolding
➢ Implementation of White Listing and Black Listing.
➢ Implementation of Bind Element.
➢ Implementation of Interface to achieve while listing

LINQ & Entity Framework (CF)

- ➢ ORM Basics
- ➢ Lazy Loading
- ➢ Eager Loading
- ➢ Explicit Loading
- ➢ Conventions
- ➢ Transactions
- ➢ Querying with EDM
- ➢ Querying with LINQ
- ➢ Implementation of Lambda Expression
- ➢ Insert, Update, Delete and Select using LINQ & Entity Framework

Ajax in MVC

- ➢ Introduction of Ajax in MVC
- ➢ Importance of Ajax
- ➢ Implementation of Ajax with Loading Element
- ➢ Implementation of OnBegin, OnSuccess, OnFailure and OnComplete

Jquery in MVC

- ➢ Introduction of JQuery
- ➢ JQuery Selector
- ➢ JQuery Events
- ➢ Introduction of JQuery Animation
- ➢ JSON call using JQuery
- ➢ Implementation of CDN

Security in MVC

- ➢ Authorization and anonymous prevention
- ➢ Https attribute
- ➢ Cross Site Scripting Attack

- ➤ Custom action filter

Caching of MVC Application
- ➤ Implementation of Caching in MVC
- ➤ Output Cache in MVC
- ➤ Caching of Child request

Rest Based Services

- ➤ Benefits
- ➤ Architecting Rest Service
- ➤ Methods
- ➤ Stateless

Web API 2

- ➤ Controllers
- ➤ Filters
- ➤ Routing
- ➤ CORS
- ➤ Token Authentication
- ➤ Configuration

Area in MVC

Bundling & Minification
- ➤ What is Optimization
- ➤ Problem with JavaScript and CSS Loading files
- ➤ How Bundling helps performance
- ➤ BundleConfig file

Error Handling

- What is Error handling
- HandleError filter
- Concept of Error.cshtml file
- Filter customization for Error Handling

Angular basics

- Angualr4 Basics
- Project Structure

Industry Standards

- Enterprise architecture
- API Development Patterns
- IOC
- Dependency Injection
- Object Mapper
- Coding Standards
- Best Practices
- Exception Handling Best Practice
- Basics of continuous deployment

Course Duration	3 to 3.5 Months
Fees	Call at 9015041412 to know
Slots	Weekends
Study Material	http://tutorial.techaltum.com/MVC.html
Placement Assistance	yes, http://www.techaltum.org/

Trainer (Ashish Purwar)

- MCP, 13 years experienced as Microsoft Technical Architect.
- Working in MNC
- **Technical Expertise in** Amazon Web Service, Asp.net MVC, WebApi, C#, WCF, JQuery, AngularJs, SQL Server, Salesforce, Mulesoft ESB.