**Dotnet Training 01010**

**Trainer: Dasharad Duration: 50 Hours**

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**Chapter – I: C# Fundamentals**

* **Enumerations and Arrays**
* **Constructors, Destructors, Partial Classes and Static Classes**
* **Introduction to Inheritance, Visibility Modifiers and Simple Inheritance**
* **Hiding methods, Method Overriding, Abstract Classes and Methods**
* **Sealed Classes and Interfaces**
* **Delegates, Generics**
* **Exceptions, Debugging, Break points, Immediate window, Collections**
* **Multi Threading, , LINQ**
* **Assemblies**
* **Manipulating Files and File Streams**

**Chapter – II: Sql Server 2014**

* **Sql Basics, History, Querys**
* **Built in Functions**
* **Joins**
* **Views, Indexes**
* **Stored procedures, triggers**

**Chapter – III: Webservices**

* **Web Services Introduction, Creating Web services.**
* **Consuming Web services**

**Chapter – IV: JavaScript**

* **Introduction to java script**
* **Basic functions Implementation**
* **Java script events Handeleing**
* **Java script Validations**
* **Attaching an external java script file**

**Chapter – V: JQuery**

* **What is J query ?Insatllation and syntax.**
* **Selecters and events**
* **J query animation effects**
* **J query Ajax calls**
* **J query Content develevry networks(CDN)**
* **J query Validations**

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**Chapter – VI: LINQ**

* **What is LINQ & Writing LINQ Queries**
* **Extension Methods ,Aggregate Functions and Operaters**
* **Union, Intersect and Except operators in LINQ**
* **Insert Update Delete using LINQ to SQL**
* **Using stored procedures with LINQ to SQL**
* **Lazy loading and Eager loading**

**Chapter – VI: Entity Framework**

* **What is Entity Framework,CodeFirst and DB First**
* **Using stored procedures ,handle model changes and seed database**
* **Relationships in Entity Framework**

**Chapter – VII :MVC**

* **Introduction to MVC and MVC Architecture**
* **Essential Language Features and Working with Controllers**
* **Model Validation and Working with Views**
* **Working with URLs and Routing**
* **Ajax and Client Scripting**
* **Security,Authentication,Authorization,Cross-site scripting ( XSS )**

**Chapter – VIII :Web API**

* **What is Web API and why to use it ?**
* **Web API Routing and Filtering Data**
* **Binding, Validation and Routing**

**Chapter – IX WCF**

* **Introduction to WCF ,Addresses and Bindings**
* **Service Contracts, Data Contracts,Consuming WCF Service**
* **Instance Management**
* **Hosting a wcf service**
* **REST Service**
* **Fault contracts and Handling Errors**

**Chapter – X Angular JS**

* **AngularJS Introduction & Execution flow**
* **Controllers and Binding controllers with views**
* **Dependency Injection,** **Directives , Filters and Modules**
* **Sharing data between controllers**
* **Bootstrapping Angular APPS**
* **Fault contracts and Handling Errors**

**Chapter – XI Source controls and Deployment**

Case Study and Project

Soft Copy Materials

Recorded sessions