**MODULE 5**

1: Explain Areas in MVC?

🡺 Areas allows you to separate your modules and organize Model, View, Controller, Web. config and Routing registration file into separate sections. In live MVC Project implementation we can use Areas concept for organizing project in better manageable way. Area separate logical section like Model, View, Controller, Web.

2: Explain RenderSection in MVC?

🡺RenderSection is used for injecting content in the defined section. It allows you to specify a region in Layout.

3: Which assembly is the MVC framework is defined?

🡺 The MVC framework is defined through System. Web. Mvc assembly. This is because this is the only assembly which contains classes and interfaces that support the ASP.NET Model View Controller (MVC) framework for creating Web application.

5: What is difference between javascript and jquery?

🡺 JavaScript is a language for programming; JQuery is a JavaScript library, a framework that helps you use JavaScript to simplify common web tasks; Ajax is a technique using JavaScript to construct an XMLHttpRequest.

6: What is Linq?

🡺 Language-Integrated Query (LINQ) is the name for a set of technologies based on the integration of query capabilities directly into the C# language. Traditionally, queries against data are expressed as simple strings without type checking at compile time or IntelliSense support.

7: What is difference between Linq and Entity Framework.?

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| LinQ to Sql | Entity Framework |
| LINQ to SQL uses the Data Context class to interact with a database. | Entity Framework generates the DBContext class to interact with the database. |
| LINQ to SQL is tightly coupled. | Entity Framework is Loosely Coupled |
| LINQ TO SQL works based on ORM Pattern | Entity Framework also works based on ORM Pattern |
| LINQ to SQL cannot generate the database based on model classes. | Entity Framework generates the database based on model classes |

10: What is Data Annotation Validator Attributes in MVC?

🡺 Data annotation attributes are attached to the properties of the model class and enforce some validation criteria. They are capable of performing validation on the server side as well as on the client side. This article discusses the basics of using these attributes in an ASP.NET MVC application.

11: What are AJAX Helpers in MVC?

🡺AJAX Helpers are used to create AJAX enabled elements like as Ajax enabled forms and links which performs request asynchronously. AJAX Helpers are extension methods of AJAXHelper class which exist in System. Web. Mvc namespace.

14. What are required attributes for Ajax call?

🡺The parameters specifies one or more name/value pairs for the AJAX request. The data type expected of the server response. A function to run if the request fails. A Boolean value specifying whether a request is only successful if the response has changed since the last request.

16. What is JsonResultType in MVC

🡺JsonResult is one of the type of MVC action result type which returns the data back to the view or the browser in the form of JSON (JavaScript Object notation format).

17. What is the meaning of Unobtrusive JavaScript?

🡺In short, unobtrusive JavaScript is a way of writing JavaScript so that your site visitors are not shut out of your site for one of these reasons—even if your JavaScript is not working correctly for them, they should still be able to use your site, albeit at a more basic level.

18. What are the sub types of ActionResult?

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1. **ViewResult** - Renders a specified view to the response stream
2. **PartialViewResult** - Renders a specified partial view to the response stream
3. **ViewResult** - Renders a specified view to the response stream
4. **PartialViewResult** - Renders a specified partial view to the response stream
5. **EmptyResult** - An empty response is returned
6. **RedirectResult** - Performs an HTTP redirection to a specified URL
7. **RedirectToRouteResult** - Performs an HTTP redirection to a URL that is determined by the routing engine, based on given route data.
8. **JsonResult** - Serializes a given ViewData object to JSON format
9. **JavaScriptResult** - Returns a piece of JavaScript code that can be executed on the client
10. **ContentResult** - Writes content to the response stream without requiring a view
11. **FileContentResult** - Returns a file to the clients
12. **FileStreamResult** - Returns a file to the client, which is provided by a Stream
13. **FilePathResult** - Returns a file to the client.

21. Different way to return view in MVC?

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1. return View()
2. return RedirectToAction()
3. return Redirect()
4. return RedirectToRoute()