***MODULE - 4***

**1. What is model?**

**Ans.**

**The Model is the part of MVC which implements the domain logic. In simple terms, this logic is used to handle the data passed between the database and the user interface (UI). The Model is known as domain object or domain entity. The domain objects are stored under the Models folder in ASP.NET.**

**2. What is routing in MVC?**

**Ans.**

**Routing is a pattern matching system that monitor the incoming request and figure out what to do with that request. At runtime, Routing engine use the Route table for matching the incoming request's URL pattern against the URL patterns defined in the Route table.**

**3. What is the difference between Temp data, View, and View Bag?**

**Ans.**

**ViewBag and ViewData are used to pass the data from Controller action to View and TempData is used to pass the data from action to another action or one Controller to another Controller.**

**4. What is difference between MVC and Web Forms?**

**Ans.**

**MVC focuses on separation of concern, i.e., there is no fixed code behind page for every view. A view can be called from multiple action. Web form based on functions and page behind code, i.e., there is code behind page for each view. You have to write code in that class related to this view only.**

**5. What is session? What is the default time for session?**

**Ans.**

**Specifies the number of minutes that a session can remain idle before the server terminates it automatically. The default is 20 minutes Session.**

**6. What is Partial View in MVC? With example**

**Ans.**

**Partial view in ASP.NET MVC is special view which renders a portion of view content. It is just like a user control of a web form application. Partial can be reusable in multiple views. It helps us to reduce code duplication.**

**7. What is the difference between View and Partial View?**

**Ans.**

**View can basically contains a complete markup which may contain a master view(or master page) with all the design(s) etc. whereas Partial view is only a portion of page or a small markup which don't have master page. It is basically used as user control in mvc and it can be used at more than one views**

**8. Explain the concept of MVC Scaffolding?**

**Ans.**

**ASP.NET Scaffolding is a code generation framework for ASP.NET Web applications.**

**Basically, it is an automated code generation framework, it generates code for CRUD operations based on the provided domain model classes and DB connections. You can add scaffolding to your project when you want to add code that interacts with the data model in the shortest amount of time.**

**9. How to change time of session?**

**Ans.**

**Open the web. config file, then increase the value in minutes by using the time out attribute of SessionState element. By default, the session timeout value is 20 minutes. Also in your case if you are using forms authentication, please check the timeout value.**

**10. What is query string? What are disadvantages of query string?**

**Ans.**

**A querystring is a set of characters input to a computer or Web browser and sent to a query program to recover specific information from a database .**

**Disadvantages:**

**1. There is a limit to URL length of 255 characters.**

**2. Query String data is directly visible to user thus leading to security problems**

**11. What is cookie? What are limitations for cookie?**

**Ans.**

**Cookies are files created by websites you visit. They make your online experience easier by saving browsing information. With cookies, sites can keep you signed in, remember your site preferences, and give you locally relevant content.**

**Cookies are domain specific i.e. a domain cannot read or write to a cookie created by another domain. This is done by the browser for security purpose. · Cookies are browser specific. Each browser stores the cookies in a different location.**

**13. Explain MVC application life cycle.**

**Ans.**

**The life cycle is basically is set of certain stages which occur at a certain time. MVC actually defined in two life cycles, the application life cycle, and the request life cycle. The Starting point for every MVC application begins with routing.**

**14. List out different return types of a controller action method**

**Ans.**

**The types of controller action methods -**

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

**15. What are filters in MVC?**

**Ans.**

**Filters are used to execute custom logic before or after executing the action method. ASP.NET MVC provides filters for this purpose. ASP.NET MVC Filter is a custom class where we can write custom logic to execute that before or after an action method is executed**.

**16. What are HTML helpers in MVC?**

**Ans.**

**In MVC, HTML Helper can be considered as a method that returns you a string. This string can describe the specific type of detail of your requirement. Example: We can utilize the HTML Helpers to perform standard HTML tags, for example HTML<input>, and any <img> tags.**

**17. Differences between Razor and ASPX View Engine in MVC?**

**Ans.**

**Razor View Engine is an advanced view engine and introduced with MVC3. This is not a language but it is a markup syntax. ASPX View Engine is the default view engine for the ASP.NET MVC that is included with ASP.NET MVC from the beginning.**