**What is MVC (Model View Controller)?**

MVC is an architectural pattern which separates the representation and user interaction. It’s divided into three broader sections, Model, View, and Controller. Below is how each one of them handles the task.

The View is responsible for the look and feel.

Model represents the real world object and provides data to the View.

The Controller is responsible for taking the end user request and loading the appropriate Model and View.

**What are the benefits of using MVC?**

There are two big benefits of MVC:

Separation of concerns is achieved as we are moving the code-behind to a separate class file. By moving the binding code to a separate class file we can reuse the code to a great extent.

Automated UI testing is possible because now the behind code (UI interaction code) has moved to a simple .NET class. This gives us opportunity to write unit tests and automate manual testing.

**What is the latest version of MVC?**

MVC 6 is the latest version which is also termed as ASP VNEXT.

**What are HTML helpers in MVC?**

HTML helpers help you to render HTML controls in the view. For instance if you want to display a HTML textbox on the view , below is the HTML helper code.

**What is the difference between “HTML.TextBox” vs “HTML.TextBoxFor”?**

Both of them provide the same HTML output, “HTML.TextBoxFor” is strongly typed while “HTML.TextBox” isn’t.

**What is routing in MVC?**

Routing helps you to define a URL structure and map the URL with the controller.

**How can we maintain sessions in MVC?**

Sessions can be maintained in MVC by three ways: tempdata, viewdata, and viewbag.

**What is the difference between tempdata, viewdata, and viewbag?**

Temp data - Helps to maintain data when you move from one controller to another controller or from one action to another action. In other words when you redirect, tempdata helps to maintain data between those redirects. It internally uses session variables.

View data - Helps to maintain data when you move from controller to view.

View Bag - It’s a dynamic wrapper around view data. When you use Viewbag type, casting is not required. It uses the dynamic keyword internally.

**What is difference between TempData and ViewData ?**

“TempData” maintains data for the complete request while “ViewData” maintains data only from Controller to the view.

**What is Razor in MVC?**

It’s a light weight view engine. Till MVC we had only one view type, i.e., ASPX. Razor was introduced in MVC 3.

**So which is a better fit, Razor or ASPX?**

As per Microsoft, Razor is more preferred because it’s light weight and has simple syntaxes.

**How can you do authentication and authorization in MVC?**

You can use Windows or Forms authentication for MVC.

**What is the difference between ActionResult and ViewResult?**

ActionResult is an abstract class while ViewResult derives from the ActionResult class. ActionResult has several derived classes like ViewResult, JsonResult, FileStreamResult, and so on.

ActionResult can be used to exploit polymorphism and dynamism. So if you are returning different types of views dynamically, ActionResult is the best thing. For example in the below code snippet, you can see we have a simple action called DynamicView. Depending on the flag (IsHtmlView) it will either return a ViewResult or JsonResult.

**What are the different types of action filters?**

1.Authorization filters

2.Action filters

3.Result filters

4.Exception filters