Sessions In ASP.NET MVC

Asp.NET provides three facilities to transfer the data from controller to view

1. ViewBag
2. ViewData
3. TempData
4. Session

View Bag and View data are almost similar but TempData perform some additional features and responsibility

ViewBag And ViewData

1. Helps to maintain data when you move from controller to view.
2. Used to pass data from controller to corresponding view.
3. Short life means value becomes null when redirection occurs. This is because their goal is to provide a way to communicate between controllers and views. It’s a communication mechanism within the server call.

**ViewBag**

1. View Bag is a dynamic object or dynamic container.
2. ViewBag is a dynamic property that takes advantage of the new dynamic features in C# 4.0.
3. ViewBag doesn’t require typecasting for complex data type.
4. ViewBag only transfers data from controller to view, not visa-versa. ViewBag values will be null if redirection occurs.
5. ViewBag transfers data from the controller to the view, ideally temporary data which in not included in a model.
6. You can assign any number of properties and values to ViewBag

In the practical session to get the better idea so example is very important after every session

TempData

1. **TempData** can be used to maintain data between one controller action to the other controller action
2. Tempdata is used to transfer the data from one action method to another action method, in case of redirection
3. TempData is dictionary based means based on key value.
4. TempData in ASP.NET MVC can be used to store temporary data which can be used in the subsequent request. TempData will be cleared out after the completion of a subsequent request.
5. TempData is useful when you want to transfer non-sensitive data from one action method to another action method of the same or a different controller as well as redirects. It is dictionary type which is derived from [TempDataDictionary](https://msdn.microsoft.com/en-us/library/system.web.mvc.tempdatadictionary(v=vs.118).aspx" \t "_blank)
6. TempData can be used to store data between two consecutive requests. TempData values will be retained during redirection.
7. TempData value must be type cast before use. Check for null values to avoid runtime error.
8. TempData internaly use Session to store the data. So think of it as a short lived session.
9. After retrieving the data from tempData it will be deleted from Tempdata if you don’t retrieve it will be remain there mean TempData is only one time reading

Syntax of TempData

TempData[“key”]

It work on the basic of key concept and key cannot be null and key cannot be duplicate the same key must be use at the time of retrieval the data which were use to store the data

How to redirect the data from one action to another action

Return (“Action”, “Name of Controller”);