

PRACTICAL 9

Aim: Develop ASP.NET Core MVC application to demonstrate use of Cookie, Session, Query String, and Hidden Field.

Code:

HomeController.cs : (Controllers / HomeController.cs)

```
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Http;
using PRACTICAL9.Models;
namespace PRACTICAL9.Controllers {
    public class HomeController : Controller {
        public IActionResult Index() {
            return View();
        }
        public IActionResult SetCookie() {
            HttpContext.Response.Cookies.Append("UserCookie", "Tony Mikaelson");
            ViewBag.Message = "Cookie has been set!";
            return View();
        }
        public IActionResult GetCookie() {
            string userCookie = HttpContext.Request.Cookies["UserCookie"] ?? "Cookie not
found.";
            ViewBag.CookieValue = userCookie;
            return View();
        }
        public IActionResult SetSession() {
            HttpContext.Session.SetString("UserSession", "Gustavo Fring");
            ViewBag.Message = "Session has been set!";
            return View();
        }
        public IActionResult GetSession() {
            string userSession = HttpContext.Session.GetString("UserSession") ?? "Session not
found.";
            ViewBag.SessionValue = userSession;
            return View();
        }
        public IActionResult QueryStringDemo(string name, int age) {
            ViewBag.Name = name;
            ViewBag.Age = age;
            return View();
        }
    }
}
[HttpPost]
```

```
        public IActionResult HiddenFieldDemo(UserModel user) {
            ViewBag.Name = user.Name;
            ViewBag.Age = user.Age;
            return View(user);
        }
    }
}
```

UserModel.cs : (Models / UserModel.cs)

namespace PRACTICAL9.Models

```
{
    public class UserModel
    {
        public string? Name { get; set; }
        public int Age { get; set; }
    }
}
```

Index.cshtml : (Views / Home / Index.cshtml)

```
@{
    ViewData["Title"] = "Index";
}
<h3>Cookie, Session, Query String & Hidden Field</h3><br>
<ul>
    <li><a href="/Home/SetCookie">Set Cookie</a></li><br>
    <li><a href="/Home/GetCookie">Get Cookie</a></li><br>
    <li><a href="/Home/SetSession">Set Session</a></li><br>
    <li><a href="/Home/GetSession">Get Session</a></li><br>
    <li><a href="/Home/QueryStringDemo?name=Lucifer Morningstar&age=23">Query
String</a></li><br>
    <li>
        @using (Html.BeginForm("HiddenFieldDemo", "Home", FormMethod.Post))
        {
            <input type="hidden" name="Name" value="Hidden name --> Pepper" />
            <input type="hidden" name="Age" value="30" />
            <input type="submit" value="Hidden Field" />
        }
    </li>
</ul>
```

SetCookie.cshtml : (Views / Home / SetCookie.cshtml)

```
@{
```

```
    ViewData["Title"] = "Set Cookie";
}
<style>
    h2 {
        padding-top: 210px;
    }
</style>
<center>
<h2>@ViewBag.Message</h2>
<a href="/Home/GetCookie">Check Cookie</a>
</center>
```

GetCookie.cshtml : (Views / Home / Index.cshtml)

```
@{
    ViewData["Title"] = "Get Cookie";
}
<style>
    h2 {
        padding-top: 210px;
    }
</style>
<center>
<h2>Cookie Value: @ViewBag.CookieValue</h2>
<a href="/Home/SetCookie">Set Cookie Again</a>
```

SetSession.cshtml : (Views / Home / SetSession.cshtml)

```
@{
    ViewData["Title"] = "Set Session";
}
<style>
    h2 {
        padding-top: 210px;
    }
</style>
<center>
<h2>@ViewBag.Message</h2>
<a href="/Home/GetSession">Check Session</a>
```

GetSession.cshtml : (Views / Home / GetSession.cshtml)

```
@{
    ViewData["Title"] = "Get Session";
}
<style>
    h2 {
```

```
        padding-top: 210px;
    }
</style>
<center>
<h2>Session Value: @ViewBag.SessionValue</h2>
<a href="/Home/SetSession">Set Session Again</a>
```

QueryStringDemo.cshtml : (Views / Home / QueryStringDemo.cshtml)

```
@{
    ViewData["Title"] = "Query String Demo";
}
<style>
    h2 {
        padding-top: 210px;
    }
</style>
<center>
<h2>Query String Values</h2>
<p>Name: @ViewBag.Name</p>
<p>Age: @ViewBag.Age</p>
```

HiddenFieldDemo.cshtml : (Views / Home / HiddenFieldDemo.cshtml)

```
@model PRACTICAL9.Models.UserModel
@{
    ViewData["Title"] = "Hidden Field Demo";
}
<style>
    h2 {
        padding-top: 210px;
    }
</style>
<center>
<h2>Hidden Field Demo</h2>
<p>Name: @ViewBag.Name</p>
<p>Age: @ViewBag.Age</p>
```

Add This In Program.cs :

```
builder.Services.AddSession();
app.UseSession();
```

Output:



