**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>

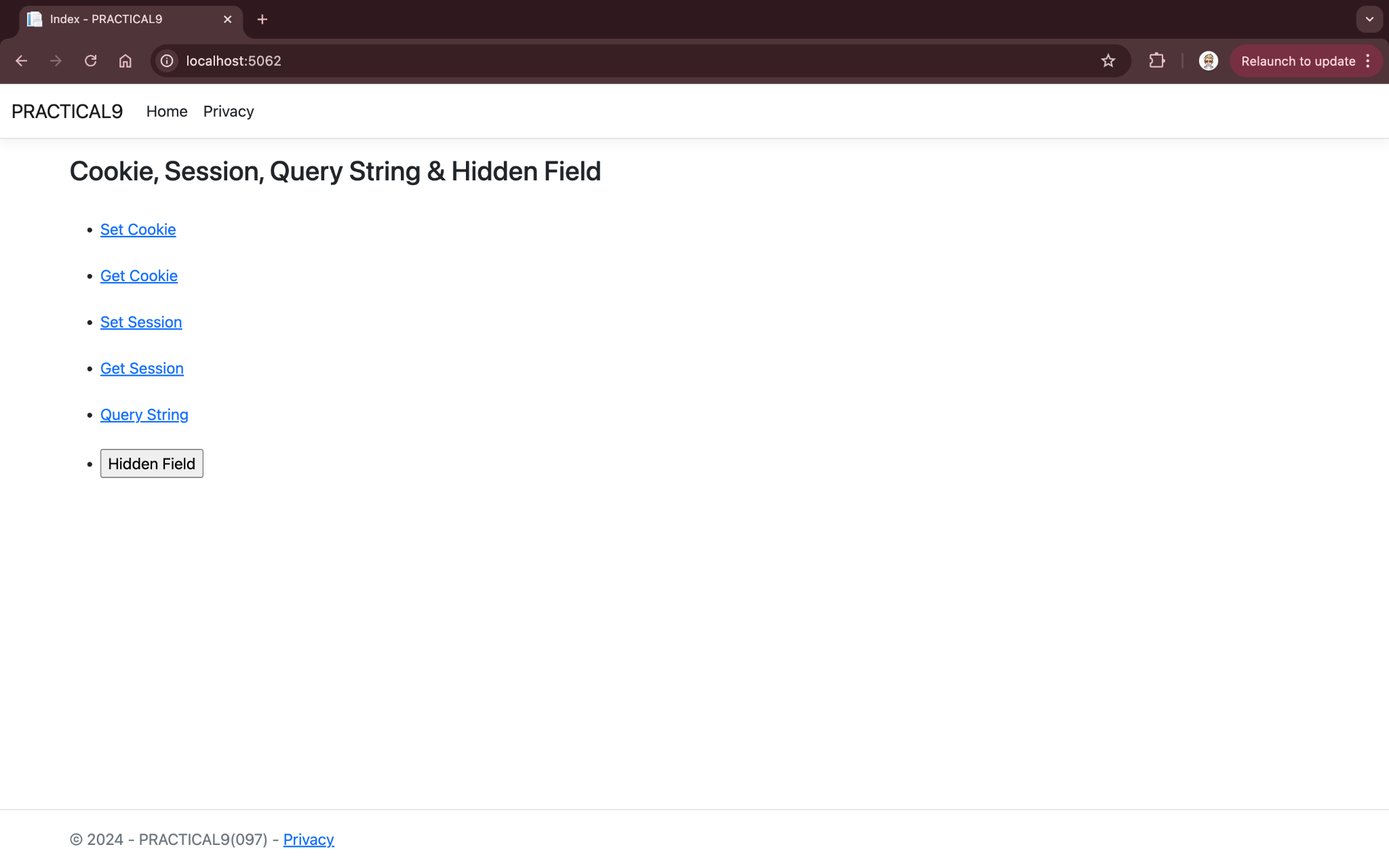
<p>Age: @ViewBag.Age</p>

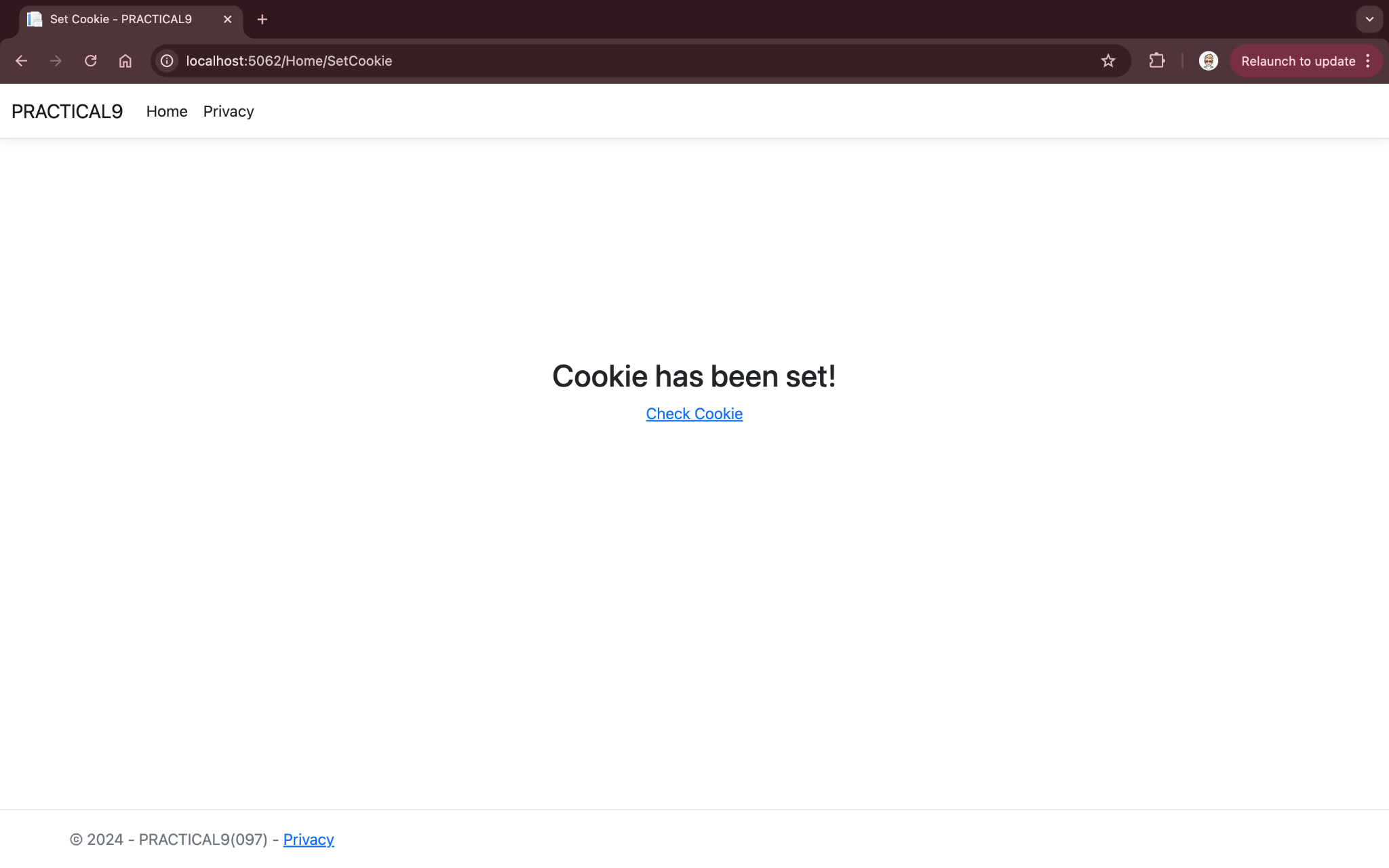
**Add This In Program.cs :**

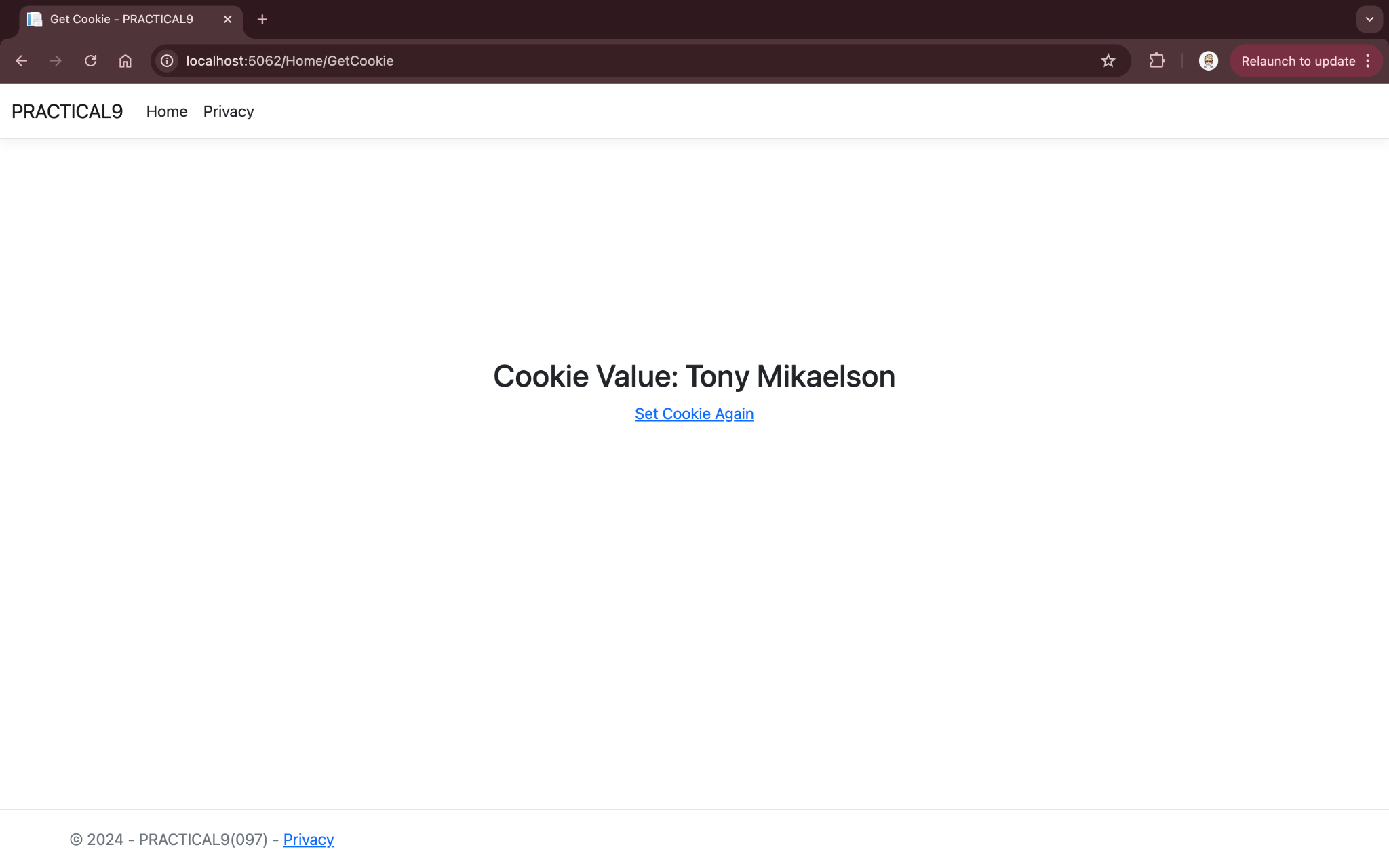
builder.Services.AddSession();

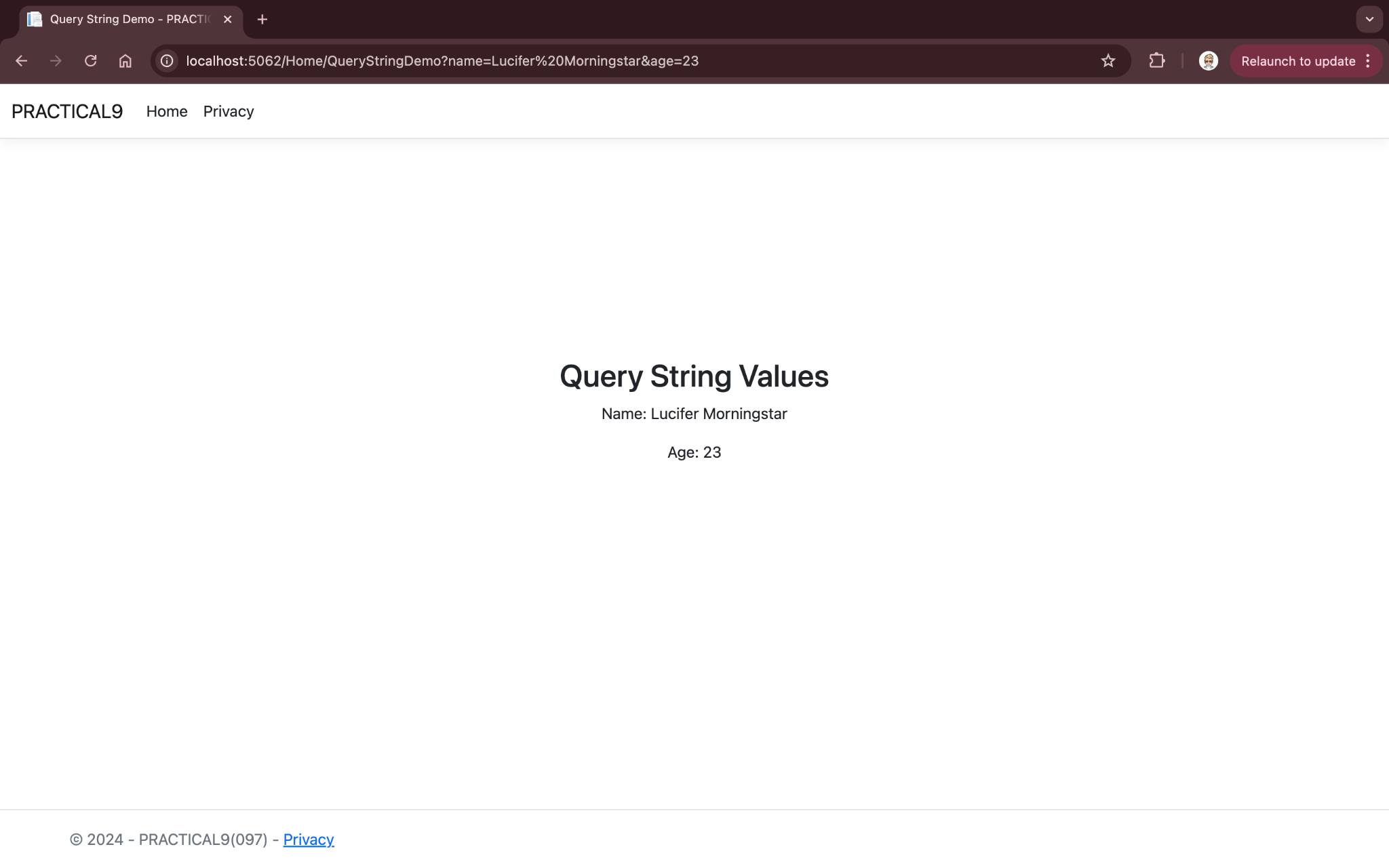
app.UseSession();

**Output:**

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****

****

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