

<https://www.halvorsen.blog>

ASP.NET Core Basics



ASP.NET Core

Query String - Sending Data between Pages

Hans-Petter Halvorsen

Contents

This Tutorial are for
rookies when it comes
to Web Programming
and ASP.NET Core

- ASP.NET Core
- Practical Code Examples
 - **Sending Data between Pages**
 - **Form Data** - *Request.Form["xxx"]*
 - **Transfer a User from one Web page to another Web page** - *Response.Redirect("xxx")*
 - **Query String** - *Request.Query["xxx"]*
 - **JavaScript** - *onclick="javascript:Function()"*



ASP.NET Core

Hans-Petter Halvorsen

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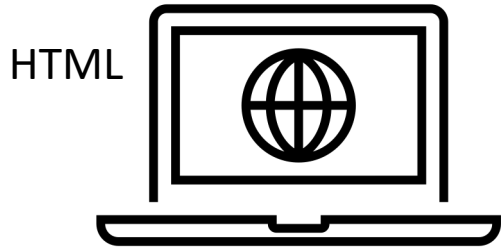
ASP.NET Core

- ASP.NET Core is an open-source web framework, created by Microsoft, for building web applications and web services
- You create ASP.NET Core Web Applications using Visual Studio and the C# Programming language
- ASP.NET Resources:

<https://www.halvorsen.blog/documents/programming/web/aspnet>

Web Fundamentals

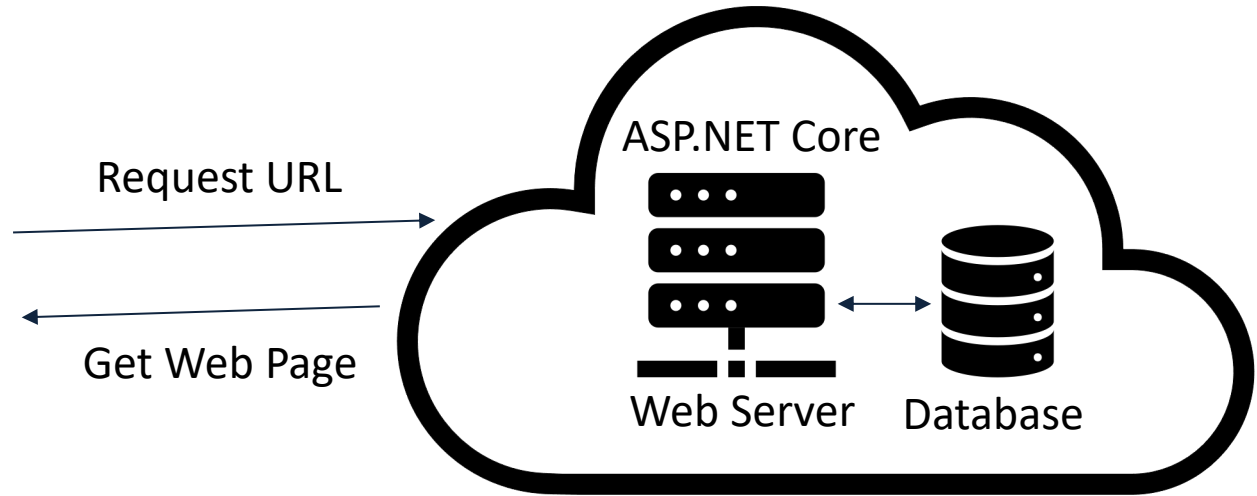
Client-side



Local Computer
with Web Browser

A pure HTML File is sent to
your local Web Browser

Server-side



The Cloud/Internet

Server-side Code (C#) is executed on the Server

Web Fundamentals

HTML

CSS

JavaScript

Client-side

Server-side
Framework

HTML is the standard markup language for creating Web pages

CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed.

JavaScript is the programming language of the Web. JavaScript is probably the most used programming language in the world.

ASP.NET Core (C#), PHP or similar



Code Example

Request.Form["xxx"] and *Response.Redirect("xxx")*

ASP.NET Core Example

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

Name:

Hans-Petter Halvorsen

OK

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Page 1

Index.cshtml

QueryStringDataApp [Home](#) [Privacy](#)

Page 2

Welcome

Your Name is: Hans-Petter Halvorsen

ShowName.cshtml

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ASP.NET Core Template

Configure your new project

ASP.NET Core Web Application

Project name

FormDataApp

Location

C:\Users\hansha\OneDrive\Programming\Demo A

Solution name ⓘ

FormDataApp

☐ Place solution and project in the same directory

Create a new ASP.NET Core web ap...

.NET Core

ASP.NET Core 5.0



ASP.NET Core Empty

An empty project template for creating an ASP.NET Core application. This template does not have any content in it.



ASP.NET Core Web API

A project template for creating an ASP.NET Core application with an example Controller for a RESTful HTTP service. This template can also be used for ASP.NET Core MVC Views and Controllers.



ASP.NET Core Web App

A project template for creating an ASP.NET Core application with example ASP.NET Razor Pages content.



ASP.NET Core Web App (Model-View-Controller)

A project template for creating an ASP.NET Core application with example ASP.NET Core MVC Views and Controllers. This template can also be used for RESTful HTTP services.



ASP.NET Core with Angular

[Get additional project templates](#)

Authentication

No Authentication

[Change](#)

Advanced

☒ Configure for HTTPS

☐ Enable Docker Support
(Requires [Docker Desktop](#))

Linux

☐ Enable Razor runtime compilation

Author: Microsoft

Source: Templates 5.0.4

Back

Create

Back

Create

Page 1 (Index)

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

Name:

Hans-Petter Halvorsen

OK

```
@page
@model IndexModel
@{
    ViewData["Title"] = "Enter Name";
}
```

```
<div>
```

```
    <h1>What is your Name?</h1>
```

```
    <p>Please enter your Name:</p>
```

```
    <form name="NameForm" id="NameForm" method="post">
```

```
        Name:
```

```
        <br />
```

```
        <input name="FullName" type="text" class="form-control input-lg" autofocus required />
```

```
        <br />
```

```
        <input id="OKButton" type="submit" value="OK" class="btn btn-info" />
```

```
    </form>
```

```
    <br />
```

```
</div>
```

```
using Microsoft.AspNetCore.Mvc.RazorPages;
```

```
namespace QueryStringDataApp.Pages
```

```
{
```

```
    public class IndexModel : PageModel
```

```
    {
```

```
        public void OnGet()
```

```
        {
```

```
        }
```

```
        public void OnPost()
```

```
        {
```

```
            string fullName = Request.Form["FullName"];
```

```
            string url = "../ShowName?FullName=" + fullName;
```

```
            Response.Redirect(url);
```

```
        }
```

```
    }
```

```
}
```

Request.Form["xxx"]

Response.Redirect("xxx")

Page 2 (ShowName)

QueryStringDataApp [Home](#) [Privacy](#)

Welcome

Your Name is: Hans-Petter Halvorsen

```
@page
@model QueryStringDataApp.Pages.ShowNameModel
@{
    ViewData["Title"] = "Show Name";
}

<div>

    <h1>Welcome</h1>

    <p>
        Your Name is: @Model.fullName
    </p>

</div>
```

```
using Microsoft.AspNetCore.Mvc.RazorPages;

namespace QueryStringDataApp.Pages
{
    public class ShowNameModel : PageModel
    {
        public string fullName;

        public void OnGet()
        {
            fullName = Request.Query["FullName"];
        }

        public void OnPost()
        {
        }
    }
}
```

Request.Query["xxx"]



Code Example 2

Query String (*Request.Query["xxx"]*)

Example

Page 1

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

FirstName:

LastName:

OK

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Page 2

QueryStringDataApp [Home](#) [Privacy](#)

Welcome

Your FirstName is: **Hans-Petter** and your LastName is: **Halvorsen**

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Page 1 (Index)

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

FirstName:

LastName:

```
@page
@model IndexModel
@{
    ViewData["Title"] = "Enter Name";
}
```

```
<div>
    <h1>What is your Name?</h1>
    <p>Please enter your Name:</p>

    <form name="NameForm" id="NameForm" method="post">

        FirstName:
        <br />
        <input name="FirstName" type="text" class="form-control input-lg" autofocus required />
        <br />

        LastName:
        <br />
        <input name="LastName" type="text" class="form-control input-lg" required />
        <br />

        <input id="OKButton" type="submit" value="OK" class="btn btn-info" />

    </form>
    <br />
</div>
```

```
using Microsoft.AspNetCore.Mvc.RazorPages;
```

```
namespace QueryStringDataApp.Pages
```

```
{
```

```
    public class IndexModel : PageModel
```

```
    {
```

```
        public void OnGet()
```

```
        {
```

```
        }
```

```
        public void OnPost()
```

```
        {
```

```
            string firstName = Request.Form["FirstName"];
```

```
            string lastName = Request.Form["LastName"];
```

```
            string url;
```

```
            url = "./ShowName?FirstName=" + firstName + "&LastName=" + lastName;
```

```
            Response.Redirect(url);
```

```
        }
```

```
    }
```

```
}
```

Page 2 (ShowName)

QueryStringDataApp [Home](#) [Privacy](#)

Welcome

Your FirstName is: **Hans-Petter** and your LastName is: **Halvorsen**

```
@page
@model QueryStringDataApp.Pages.ShowNameModel
@{
    ViewData["Title"] = "Show Name";
}

<div>

    <h1>Welcome</h1>

    <p>
        Your FirstName is: <strong>@Model.firstName</strong>
        and your LastName is: <strong>@Model.lastName</strong>
    </p>

</div>
```

ShowName.cshtml.cs

```
using Microsoft.AspNetCore.Mvc.RazorPages;
```

```
namespace QueryStringDataApp.Pages
```

```
{
```

```
    public class ShowNameModel : PageModel
```

```
    {
```

```
        public string firstName;
```

```
        public string lastName;
```

```
        public void OnGet()
```

```
        {
```

```
            firstName = Request.Query["FirstName"];
```

```
            lastName = Request.Query["LastName"];
```

```
        }
```

```
        public void OnPost()
```

```
        {
```

```
        }
```

```
    }
```

```
}
```



Code Example 3

JavaScript and Query String

Hans-Petter Halvorsen

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Example

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

Name:

OK

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QueryStringDataApp [Home](#) [Privacy](#)

Welcome

Your Name is: Hans-Petter Halvorsen

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Page 1 (Index)

QueryStringDataApp [Home](#) [Privacy](#)

What is your Name?

Please enter your Name:

Name:

OK

Index.cshtml

JavaScript

document.getElementById("xxx").value

window.location.href

onclick="javascript:ShowName()"

```
@page
@model IndexModel
@{
    ViewData["Title"] = "Enter Name";
}
```

```
<script>
```

```
function ShowName()
{
    var name = document.getElementById("FullName").value;
    window.location.href = "ShowName?FullName=" + name;
}
```

```
</script>
```

```
<div>
```

```
<h1>What is your Name?</h1>
```

```
<p>Please enter your Name:</p>
```

```
Name:
```

```
<br />
```

```
<input name="FullName" id="FullName" type="text" class="form-control input-lg" autofocus required />
```

```
<br />
```

```
<input type="button" id="OKButton" value="OK" onclick="javascript:ShowName()" class="btn btn-info" />
```

```
</div>
```

```
using Microsoft.AspNetCore.Mvc.RazorPages;
```

```
namespace QueryStringDataApp.Pages
```

```
{
```

```
    public class IndexModel : PageModel
```

```
    {
```

```
        public void OnGet()
```

```
        {
```

```
        }
```

```
        public void OnPost()
```

```
        {
```

```
        }
```

```
    }
```

```
}
```

Nothing interesting
happens here

Page 2 (ShowName)

QueryStringDataApp [Home](#) [Privacy](#)

Welcome

Your Name is: Hans-Petter Halvorsen

```
@page
@model QueryStringDataApp.Pages.ShowNameModel
@{
    ViewData["Title"] = "Show Name";
}
```

ShowName.cshtml

```
<div>

    <h1>Welcome</h1>

    <p>
        Your Name is: @Model.fullName
    </p>

</div>
```

```
using Microsoft.AspNetCore.Mvc.RazorPages;

namespace QueryStringDataApp.Pages
{
    public class ShowNameModel : PageModel
    {
        public string fullName;

        public void OnGet()
        {
            fullName = Request.Query["FullName"];
        }

        public void OnPost()
        {
        }
    }
}
```

Summary

- ASP.NET Core
- Practical Code Examples
 - Sending Data between Pages
 - Form Data - *Request.Form["xxx"]*
 - Transfer a User from one Web page to another Web page - *Response.Redirect("xxx")*
 - Query String - *Request.Query["xxx"]*
 - JavaScript - *onclick="javascript:Function()"*



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