2.10 Ajax-Enabled Forms



This section will guide you to:

* Integrate Ajax to the forms

This guide has eight subsections, namely:

2.10.1 Create an ASP.NET MVC project to use ajax enabled forms

2.10.2 Install the JQuery Unobtrusive javascript library

2.10.3 Create a StudentModel model

2.10.4 Change Index.cshtml to show Student Profile form

2.10.5 Make changes to HomeController to handle the ajax form post

2.10.6 Build the project

2.10.7 Publish and run the project

2.10.8 Push the code to your GitHub repositories

**Step 2.10.1:** Create an ASP.NET MVC project to use ajax enabled forms

* Open Visual Studio.
* From the top menu, select **File->New->Project.**
* In **Create A New Project** screen, select **ASP.NET Web Application(.Net Framework)** from the list of available project types and click on **Next.**
* Please select the project type where the **language** of the project is **C#.**
* Enter **Project Name** as **Phase3Section2.20** and click on **Create.**
* From the list of project sub-types, choose **Web MVC** and uncheck **Configure for HTTPS.** Click on **Create.**
* This will create the files for an ASP.NET MVC project.

**Step 2.10.2:** Install the JQuery Unobtrusive javascript library

* In the top menu, go to **Tools->Nuget Package Manager->Package Manager Console.**
* Type **install-package Install-Package Microsoft.jQuery.Unobtrusive.Ajax** and press **Enter**.
* You will have to manually copy the **unobtrusive** folder to **the wwwroot/lib** folder of your project.

**Step 2.10.3:** Create a StudentModel model

* In **Solution Explorer**,right click **Models** and choose **Add->Class**.
* Enter **Name** as StudentModel.cs and click **Add**.
* Enter the following code:

**using** System;

**using** System.Collections.Generic;

**using** System.Linq;

**using** System.Threading.Tasks;

**namespace** Phase3Section2.\_20.Models

{

**public** **class** StudentModel

{

**public** **string** Name { **get**; **set**; }

**public** **string** Address { **get**; **set**; }

**public** **string** Class { **get**; **set**; }

**public** **string** Email { **get**; **set**; }

}

}

**Step 2.10.4:** Change Index.cshtml to show Student Profile form

* In **Solution Explorer**,expand **Views->Home** and double-click **index.cshtml**.
* Enter the following script:

@model StudentModel

@{

ViewData["Title"] = "Home Page";

}

<**script** src="~/lib/jquery/dist/jquery.min.js"></**script**>

<**script** src="~/lib/unobtrusive/jquery.unobtrusive-ajax.min.js"></**script**>

<**div** class="container">

<**br** />

<**h4**>Edit Student using Ajax</**h4**>

<**div** class="row">

<**form** method="post" class="col-sm-6" data-ajax="true" data-ajax-method="post" data-ajax-complete="completed">

<**div** class="row">

<**div** class="col-sm-4">

Name

</**div**>

<**div** class="col-sm-8">

@Html.TextBoxFor(m => m.Name)

</**div**>

</**div**>

<**div** class="row">

<**div** class="col-sm-4">

Address

</**div**>

<**div** class="col-sm-8">

@Html.TextBoxFor(m => m.Address)

</**div**>

</**div**>

<**div** class="row">

<**div** class="col-sm-4">

Class

</**div**>

<**div** class="col-sm-8">

@Html.TextBoxFor(m => m.Class)

</**div**>

</**div**>

<**div** class="row">

<**div** class="col-sm-4">

Email id

</**div**>

<**div** class="col-sm-8">

@Html.TextBoxFor(m => m.Email)

</**div**>

</**div**>

<**div** class="row">

<**div** class="col-sm-12 text-right">

<**button** class="btn btn-default">Submit</**button**>

</**div**>

</**div**>

</**form**>

</**div**>

</**div**>

@section scripts{

<**script**>

completed = **function**(xhr) {

**alert**(xhr.responseText);

};

</**script**>

}

**Step 2.10.5:** Make changes to HomeController to handle the ajax form post

* In **Solution Explorer**,expand **Controllers** and double click **HomeController**.
* Enter the following code:

**using** System;

**using** System.Collections.Generic;

**using** System.Diagnostics;

**using** System.Linq;

**using** System.Text;

**using** System.Threading.Tasks;

**using** Microsoft.AspNetCore.Mvc;

**using** Phase3Section2.\_20.Models;

**namespace** Phase3Section2.\_20.Controllers

{

**public** **class** HomeController : Controller

{

**public** IActionResult Index()

{

**return** View();

}

[HttpPost]

**public** IActionResult Index(StudentModel model)

{

StringBuilder sb = **new** StringBuilder("Form data:\n");

sb.Append(model.Name + ", " + model.Address + "," + model.Class + "," + model.Email);

**return** Content(sb.ToString());

}

**public** IActionResult About()

{

ViewData["Message"] = "Your application description page.";

**return** View();

}

**public** IActionResult Contact()

{

ViewData["Message"] = "Your contact page.";

**return** View();

}

**public** IActionResult Privacy()

{

**return** View();

}

[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = **true**)]

**public** IActionResult Error()

{

**return** View(**new** ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });

}

}

}

**Step 2.10.6:** Build the project

* From the top menu, choose **Build->Build Solution**.
* If any compile errors are shown, fix them as required.

**Step 2.10.7:** Publish and run the project

* From the top menu, select **Debug->Start Without Debugging.**
* This will execute the program in the default browser.
* To see the student pages, go to the url : [http://localhost:xxxx/students](about:blank).

**Step 2.10.8:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master