2.19 Error Handling 



This section will guide you to:

* Create and implement error handling methods

This guide has seven subsections, namely:

2.19.1 Creating an ASP.NET MVC project

2.19.2 Changing Index.cshtml to show Student Profile form

2.19.3 Creating Index2.cshtml to show another Student Profile form

2.19.4 Changing HomeController to handle the changed views

2.19.5 Building the project

2.19.6 Publishing and running the project

2.19.7 Pushing the code to your GitHub repositories

**Step 2.19.1:** Creating an ASP.NET MVC project

* Open Visual Studio.
* From the top menu, select **File->New->Project**.
* In **Create A New Project** screen, select **ASP.NET Core Web Application** from the list of available project types and click on **Next**.
* Enter **Project Name** as **Phase3Section2.38** and click on **Create**.
* From the list of project sub-types, choose **Web Application (Model-View-Controller)** and uncheck **Configure for HTTPS.** Click on **Create**.
* This will create the files for an ASP.NET MVC project.

**Step 2.19.2:** Changing Index.cshtml to show Student Profile form

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

@{

ViewBag.Title = "Home Page";

}

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

<**form** method="post">

<**div** class="col-sm-7">

<**h4**>Student Profile Form</**h4**>

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

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

Name

</**div**>

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

<**input** class="form-control" name="name" />

</**div**>

</**div**>

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

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

Age

</**div**>

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

<**input** class="form-control" name="age" />

</**div**>

</**div**>

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

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

Email

</**div**>

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

<**input** class="form-control" name="email" />

</**div**>

</**div**>

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

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

Address

</**div**>

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

<**input** class="form-control" name="address" />

</**div**>

</**div**>

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

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

Class

</**div**>

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

<**input** class="form-control" name="sclass" />

</**div**>

</**div**>

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

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

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

</**div**>

</**div**>

<**br** /><**br** />

<**a** href="Home/Index2">Try the same form with Custom Error handling</**a**>

</**form**>

</**div**>

</**div**>

**Step 2.19.3:** Creating Index2.cshtml to show another Student Profile form

* In **Solution Explorer**,right click **Views** and choose **Add->View**.
* Enter **View Name** as Index2 and click **Add**.
* Enter the following script:

@{

ViewBag.Title = "Home Page 2";

}

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

<**form** method="post">

<**div** class="col-sm-7">

<**h4**>Student Profile Form using Custom error handling</**h4**>

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

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

Name

</**div**>

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

<**input** class="form-control" name="name" />

</**div**>

</**div**>

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

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

Age

</**div**>

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

<**input** class="form-control" name="age" />

</**div**>

</**div**>

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

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

Email

</**div**>

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

<**input** class="form-control" name="email" />

</**div**>

</**div**>

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

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

Address

</**div**>

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

<**input** class="form-control" name="address" />

</**div**>

</**div**>

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

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

Class

</**div**>

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

<**input** class="form-control" name="sclass" />

</**div**>

</**div**>

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

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

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

</**div**>

</**div**>

</**form**>

</**div**>

</**div**>

**Step 2.19.4:** Changing HomeController to handle the changed views

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

**using** System;

**using** System.Collections.Generic;

**using** System.Linq;

**using** System.Web;

**using** System.Web.Mvc;

**namespace** Phase3Section3.\_38.Controllers

{

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

{

**public** ActionResult Index()

{

**return** View();

}

[HttpPost]

**public** ActionResult Index(FormCollection form)

{

**int** age = Convert.ToInt16(form["age"]);

**return** View();

}

**public** ActionResult Index2()

{

**return** View();

}

[HttpPost]

[HandleError(View="Error")]

**public** ActionResult Index2(FormCollection form)

{

**try**

{

**int** age = Convert.ToInt16(form["age"]);

}

**catch** (Exception ex)

{

Session["error"] = ex.Message;

**throw** ex;

}

**return** View();

}

**public** ActionResult About()

{

ViewBag.Message = "Your application description page.";

**return** View();

}

**public** ActionResult Contact()

{

ViewBag.Message = "Your contact page.";

**return** View();

}

}

}

**Step 2.19.5:** Building the project

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

**Step 2.19.6:** Publishing and running the project

* From the top menu, select **Debug->Start Without Debugging**.
* This will execute the program in the default browser.
* To see default error handling, make sure <customErrors mode="Off"></customErrors> is present in web.config.
* Submit the form without entering any data.
* To see custom error handling, make sure <customErrors mode="On"></customErrors> is present in web.config.
* Submit the form without entering any data.

**Step 2.19.7:** 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