Live Virtual Class

Important Instructions

- Please read the document thoroughly before you code.
- You have to test the code and ensure there are no compilation errors before submission.

Business Scenario

Design a web application using ASP.NET MVC and Entity Framework Code-First approach for the following.

The LVC Portal Application allows user to make their profile & register for the online class. You are assigned the task of developing a Web application based on ASP.NET MVC using Entity Framework Code First Approach that will performs the following operations.

1. Accept the student details for the Live Virtual Class
2. Validate the details
3. Save the details into the Sql Server database table
4. Retrieve and display the registered student details

Model

Create a model class called Student with the following specification.

Property Name	Data Type	Validation	Error Message
ID	int	Key, Auto-generated	-
Name	string	Mandatory, Maximum 30 characters	User Name is Mandatory, Invalid User Name

Email	string	Mandatory, A valid email id	Email is Mandatory, Invalid Email Id
Mobile	string	Mandatory, A valid 10 digit mobile number	Mobile is Mandatory, Invalid Mobile No
Remarks	string	-	-

Note: Use Data Annotations for the model validation

DBContext class

Create a DBContext class under Models folder with the following specification.

Class Name	StudentContext
DbSet Property	Students

Controller

Create a controller namely StudentController with the following specification.

Action Method	Return Type	Http Method
Index	ActionResult	Get
Create	ActionResult	Get
Create	ActionResult	Post

Views
Implement the following views.

Create (Create.cshtml)

1. Create a form mapped/binded to Student model using HTML Helper.

   While creating the form, 'id' MUST be available (Hint: use HTMLHelper)

   id="Name"

   id="Email"

   id="Mobile"

   id="Remarks"

   id="Submit" – (For the Register button)

2. Implement an ActionLink for View All Registration. On clicking this link, the "Index" action must be invoked and the registration details must be displayed.
3. Add a span with the id "Message" inside which it has to display the registration status message.
   - If registration is successful, display "Registration completed successfully"
   - If there is an error while registering display "Error while registration, please contact the LVC admin"

Index (Index.cshtml)

1. Create a form mapped/binded to IEnumerable<Student> model using HTML Helper.
2. Display the registration details of students in tabular format.
3. Implement an ActionLink for Register. On clicking this link, the "Create" action must be invoked and the registration form should be displayed to the student.

Sample UI

Screen 1

Live Virtual Class

Register User

Name	
Email	
Mobile	
Remarks	

Register

View All Registration

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Screen 2

Live Virtual Class

Register User

Name

User Name is Mandatory

Email

Email is Mandatory

Mobile

Mobile is Mandatory

Remarks

Register

View All Registration

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Screen 3

Live Virtual Class

Register User

Name	John
Email	john@abc.com
Mobile	8745241424
Remarks	Good

Register

View All Registration

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Screen 4

Live Virtual Class

Register User

Name	
Email	
Mobile	
Remarks	

Register

Registration completed successfully
View All Registration

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Screen 5

Live Virtual Class

User List

Register

ID	Name	Email	Mobile	Remarks
1	John	john@abc.com	8745241424	Good
2	Smith	smith@abc.com	7412547854	Excellent
3	Raj	raj@abc.com	6547875412	Satisfactory

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_Layout.cshtml

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title</title>
    <link href="~/Content/Site.css" rel="stylesheet" type="text/css" />
    <link href="~/Content/bootstrap.min.css" rel="stylesheet" type="text/css" />
    <script src="~/Scripts/modernizr-2.8.3.js"></script>
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                @Html.ActionLink("Live Virtual Class", "Index", "Home", new { area = "" }, new { @class = "navbar-brand" })
            </div>
```

```html
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav"></ul>
            </div>
        </div>
    </div>

    <div class="container body-content">
        @RenderBody()
        <hr />
        <footer>
            <p>&copy; @DateTime.Now.Year - LVC</p>
        </footer>
    </div>

    <script src="~/Scripts/jquery-3.3.1.min.js"></script>
    <script src="~/Scripts/bootstrap.min.js"></script>
</body>
</html>
```

Create.cshtml

```csharp
@model LVC.Models.Student

@{
    ViewBag.Title = "Register";
}

<h2>Register User</h2>

@using (Html.BeginForm())
{
    @Html.AntiForgeryToken()



    @*Fill your code here*@



}

<div>
    @Html.ActionLink("View All Registration", "Index")
</div>

<script src="~/Scripts/jquery-3.3.1.min.js"></script>
<script src="~/Scripts/jquery.validate.min.js"></script>
```

```
<script src="~/Scripts/jquery.validate.unobtrusive.min.js"></script>
```

Index.cshtml

```
@model IEnumerable<LVC.Models.Student>

@{
    ViewBag.Title = "View All Registration";
}

<h2>User List</h2>

<p>
    @Html.ActionLink("Register", "Create", "Student", null, new { id = "lnkRegister" })
</p>


@*Fill your code here*@
```

Student.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace LVC.Models  //DO NOT change the namespace name
{
    //Fill your code here
}
```

StudentContext.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Data.Entity;
```

```
namespace LVC.Models //DO NOT change the namespace name
{
    public class StudentContext : DbContext  //DO NOT change the class name
    {
        public StudentContext():base("name=LVCDB")   //DO NOT change the connection
name
        {

        }

        //Fill your code here
    }
}
```

StudentController.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using LVC.Models;


//Do not change the namespace name
namespace LVC.Controllers
{
    public class StudentController : Controller //Do not change the class name
    {

        public ActionResult Index()
        {
          //Fill your code here
        }



        //Implement your code here

    }
}
```

_ViewStart.cshtml

```
@{
```

```
    Layout = "~/Views/Shared/_Layout.cshtml";
}
```