# IPG FORMATIVE ASSESMENT 1

Laikin Barnard 6955

# Contents


Question: ..... 2
Screen shots: ..... 3
Solution Explorer: ..... 3
Server Explorer: ..... 4
Code: ..... 5
Students.cs: ..... 5
Login.cshtml: ..... 6
Register.cshtml: ..... 8
Home/Index.cshtml: ..... 9
Students/Index.cshtml: ..... 10
Create.cshtml: ..... 11
Details.cshtml: ..... 13
Edit.cshtml: ..... 14
Delete.cshtml: ..... 15
_layout.cshtml: ..... 17
Results: ..... 18
Home: ..... 18
Register: ..... 18
Login: ..... 20
Students: ..... 21
Create: ..... 21
Edit: ..... 21
Details: ..... 22
Delete: ..... 22
Logout Home: ..... 23
THE END ..... 23

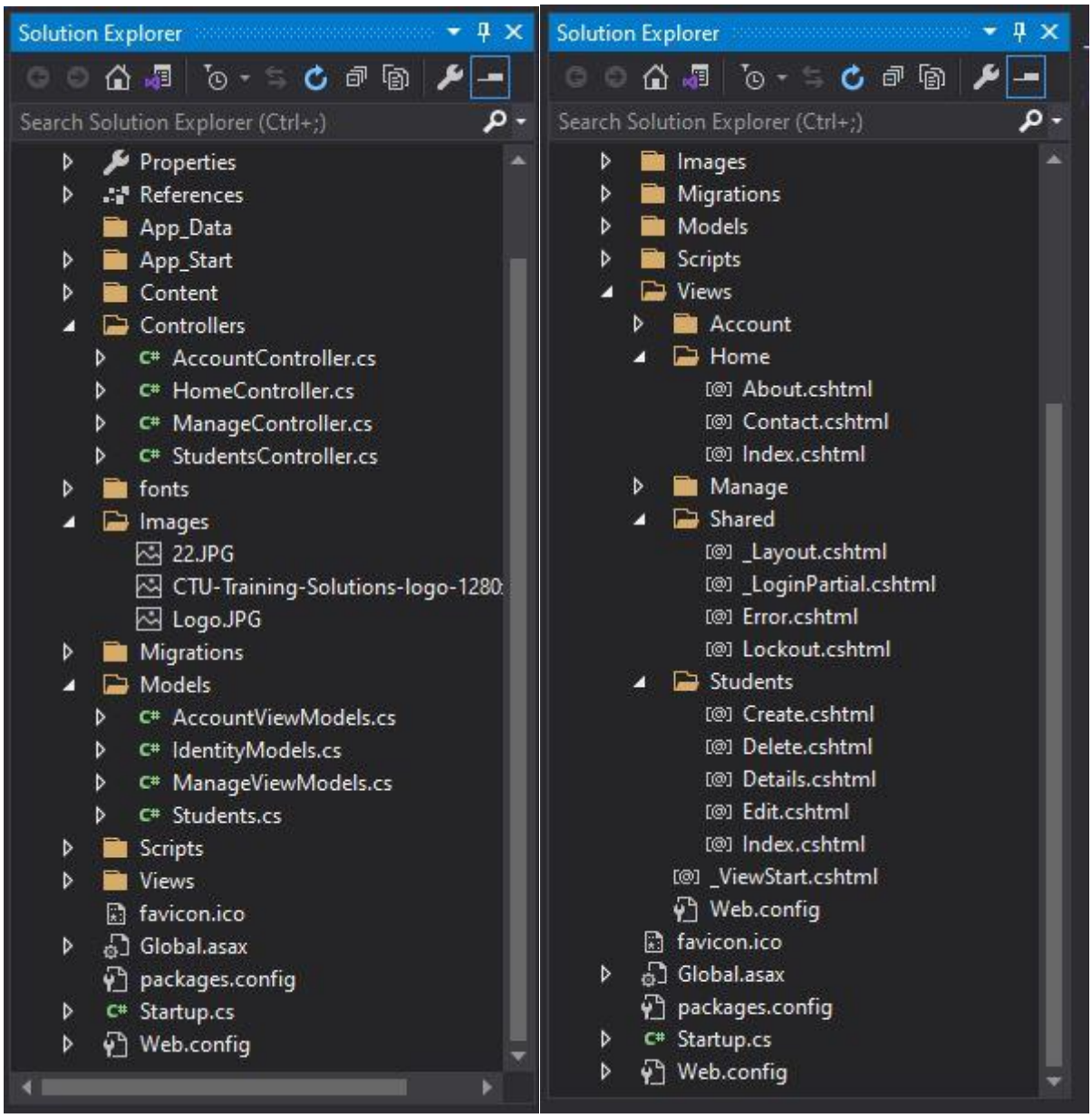
# Question:

CTU Training Solutions has tasked you to create a capturing system for their facilitators, using ASP.NET MVC5. The system should allow the facilitator to add a new student to the system, Edit the details of the students when needed, show the details of each student, and delete a student once they drop out or de-register. They have asked to use their CTU colours (marron and light grey), together with their logo. All the information must be stored, retrieved, and updated on SQL database.

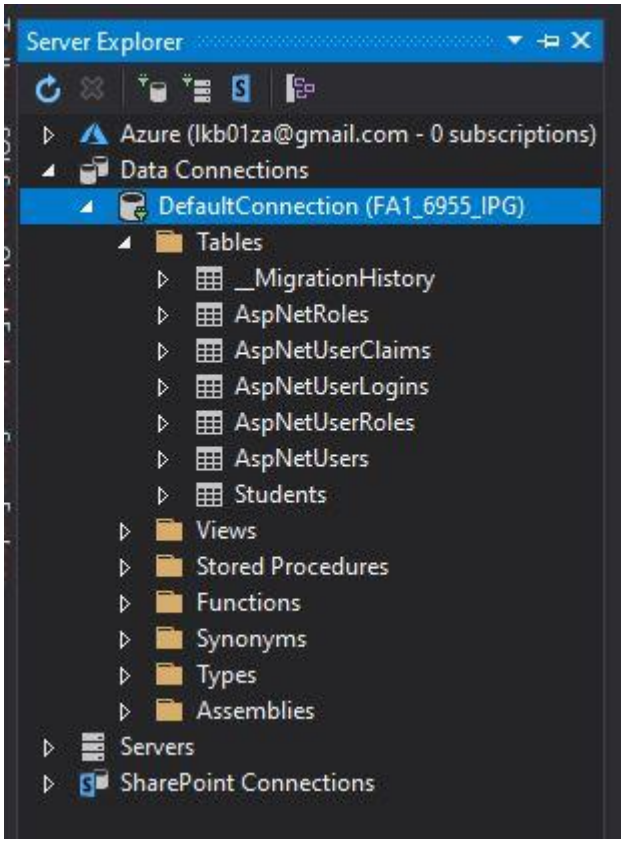
- Create appropriate models and connect it to your database (SQL).
- Allow facilitators to Register, upon successful Login they can manipulate the system.
- Create appropriate controllers that will communicate to the model and the view.
- Create appropriate views that displays as illustrated.
- Create 5 new students.

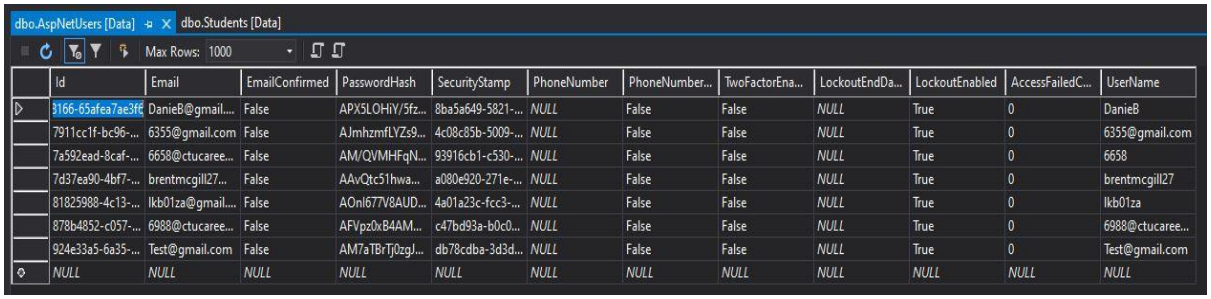
# Screen shots:

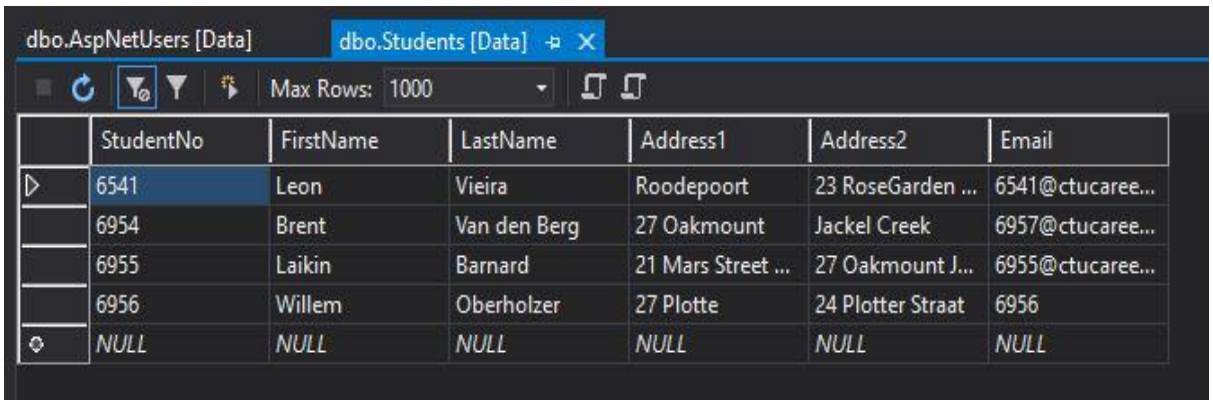
## Solution Explorer:



## Server Explorer:



# Code:

## Students.cs:

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

namespace FA1_6955_IPG.Models
{
    public class Students
    {
        [Key]
        [Required]
        [Display(Name = "Student Number")]
        public String StudentNo { get; set; }

        [Required]
        [Display(Name = "First Name")]
        public String FirstName { get; set; }

        [Required]
        [Display(Name = "Last Name")]
        public String LastName { get; set; }

        [Required]
        [Display(Name = "Address1")]
        public String Address1 { get; set; }

        [Required]
        [Display(Name = "Address2")]
        public String Address2 { get; set; }

        [Required]
        [Display(Name = "Email")]
        public String Email { get; set; }

    }
}
```

## Login.cshtml:

```
@using FA1_6955_IPG.Models
@model LoginViewModel
@{
    ViewBag.Title = "Log in";
}

<h2>@ViewBag.Title.</h2>
<div class="row">
    <div class="col-md-12">
        <section id="loginForm">
            @using (Html.BeginForm("Login", "Account", new { ReturnUrl =
ViewBag.ReturnUrl }, FormMethod.Post, new { @class = "form-horizontal", role = "form"
}))
            {
                @Html.AntiForgeryToken()
                <h4>Use a local account to log in.</h4>
                <hr />
                @Html.ValidationSummary(true, "", new { @class = "text-danger" })
                <div class="form-group">
                    @Html.LabelFor(m => m.UserName, new { @class = "col-md-2 control-
label" })
                    <div class="col-md-10">
                        @Html.TextBoxFor(m => m.UserName, new { @class = "form-
control" })
                        @Html.ValidationMessageFor(m => m.UserName, "", new { @class =
"text-danger" })
                    </div>
                </div>
                <div class="form-group">
                    @Html.LabelFor(m => m.Password, new { @class = "col-md-2 control-
label" })
                    <div class="col-md-10">
                        @Html.PasswordFor(m => m.Password, new { @class = "form-
control" })
                        @Html.ValidationMessageFor(m => m.Password, "", new { @class =
"text-danger" })
                    </div>
                </div>
                <div class="form-group">
                    <div class="col-md-offset-2 col-md-10">
                        <div class="checkbox">
                            @Html.CheckBoxFor(m => m.RememberMe)
                            @Html.LabelFor(m => m.RememberMe)
                        </div>
                    </div>
                </div>
                <div class="form-group">
                    <div class="col-md-offset-2 col-md-10">
                        <input type="submit" value="Log in" class="btn btn-default" />
                    </div>
                </div>
                <p>
                    @Html.ActionLink("Register as a new user", "Register")
                </p>
                @* Enable this once you have account confirmation enabled for password
reset functionality
                    <p>
                        @Html.ActionLink("Forgot your password?", "ForgotPassword")
                    </p>*@
```

```
            }
        </section>
    </div>
</div>

@section Scripts {
    @Scripts.Render("~/bundles/jqueryval")
}
```

## Register.cshtml:

```
@model FA1_6955_IPG.Models.RegisterViewModel
@{
    ViewBag.Title = "Register";
}

<h2>User Registration</h2>

@using (Html.BeginForm("Register", "Account", FormMethod.Post, new { @class = "form-
horizontal", role = "form" }))
{
    @Html.AntiForgeryToken()
    <hr />
    @Html.ValidationSummary("", new { @class = "text-danger" })


    <div class="form-group">
        @Html.LabelFor(m => m.UserName, new { @class = "col-md-2 control-label" })
        <div class="col-md-10">
            @Html.TextBoxFor(m => m.UserName, new { @class = "form-control" })
        </div>
    </div>
    <div class="form-group">
        @Html.LabelFor(m => m.Password, new { @class = "col-md-2 control-label" })
        <div class="col-md-10">
            @Html.PasswordFor(m => m.Password, new { @class = "form-control" })
        </div>
    </div>
    <div class="form-group">
        @Html.LabelFor(m => m.ConfirmPassword, new { @class = "col-md-2 control-label"
})
        <div class="col-md-10">
            @Html.PasswordFor(m => m.ConfirmPassword, new { @class = "form-control" })
        </div>
    </div>
    <div class="form-group">
        <div class="col-md-offset-2 col-md-10">
            <input type="submit" class="btn btn-default" value="Submit" />
        </div>
    </div>
}

@section Scripts {
    @Scripts.Render("~/bundles/jqueryval")
}
```

## Home/Index.cshtml:

```
@{
    ViewBag.Title = "Home Page";
}

<div style="background-color : lightgray" class="jumbotron">
    <h1 style="text-align:center"> Welcome </h1>

    <p>
    <img src="~/Images/22.JPG"  height="500" width="1000"/>
    </p>
</div>



<div class="row">


    <div class="col-md-4">
        <h3 style="text-align:right" >@Html.ActionLink("Login", "Login",
"Account")</h3>
        <h3 style="text-align:right" >@Html.ActionLink("Register", "Register",
"Account")</h3>
    </div>

    <div class="col-md-4">
        <p style="text-align:center">
            |
        </p>
        <p style="text-align:center">
            |
        </p>
        <p style="text-align:center">
            |
        </p>
        <p style="text-align:center">
            |
        </p>
        <p style="text-align:center">
            |
        </p>
    </div>

    <div class="col-md-4">

        <h4 style="text-align:left" >0861 100 395</h4>
        <h4 style="text-align:left" >Full Time:  083 825 9366</h4>
        <h4 style="text-align:left" >Part Time:  083 648 7294</h4>
        <h4 style="text-align:left" >Email: enquiry@ctutraining.co.za</h4>

    </div>


</div>
```

## Students/Index.cshtml:

```
@model IEnumerable<FA1_6955_IPG.Models.Students>

@{
    ViewBag.Title = "Index";
}

<h2>Welcome Facilitator</h2>

<p>
    @Html.ActionLink("Create New", "Create")
</p>
<table class="table">
    <tr>
        <th>
            @Html.DisplayNameFor(model => model.FirstName)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.LastName)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.Address1)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.Address2)
        </th>
        <th>
            @Html.DisplayNameFor(model => model.Email)
        </th>
        <th></th>
    </tr>

@foreach (var item in Model) {
    <tr>
        <td>
            @Html.DisplayFor(modelItem => item.FirstName)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.LastName)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.Address1)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.Address2)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.Email)
        </td>
        <td>
            @Html.ActionLink("Edit", "Edit", new { id=item.StudentNo }) |
            @Html.ActionLink("Details", "Details", new { id=item.StudentNo }) |
            @Html.ActionLink("Delete", "Delete", new { id=item.StudentNo })
        </td>
    </tr>
}

</table>
```

## Create.cshtml:

```
@model FA1_6955_IPG.Models.Students

@{
    ViewBag.Title = "Create";
}

<h2>Create</h2>


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

    <div class="form-horizontal">
        <h4>Students</h4>
        <hr />
        @Html.ValidationSummary(true, "", new { @class = "text-danger" })
        <div class="form-group">
            @Html.LabelFor(model => model.StudentNo, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.StudentNo, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.StudentNo, "", new { @class
= "text-danger" })
            </div>
        </div>

        <div class="form-group">
            @Html.LabelFor(model => model.FirstName, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.FirstName, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.FirstName, "", new { @class
= "text-danger" })
            </div>
        </div>

        <div class="form-group">
            @Html.LabelFor(model => model.LastName, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.LastName, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.LastName, "", new { @class =
"text-danger" })
            </div>
        </div>

        <div class="form-group">
            @Html.LabelFor(model => model.Address1, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.Address1, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.Address1, "", new { @class =
"text-danger" })
            </div>
```

```
        </div>

        <div class="form-group">
            @Html.LabelFor(model => model.Address2, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.Address2, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.Address2, "", new { @class =
"text-danger" })
            </div>
        </div>

        <div class="form-group">
            @Html.LabelFor(model => model.Email, htmlAttributes: new { @class =
"control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.Email, new { htmlAttributes = new {
@class = "form-control" } })
                @Html.ValidationMessageFor(model => model.Email, "", new { @class =
"text-danger" })
            </div>
        </div>

        <div class="form-group">
            <div class="col-md-offset-2 col-md-10">
                <input type="submit" value="Create" class="btn btn-default" />
            </div>
        </div>
    </div>
}

<div>
    @Html.ActionLink("Back to List", "Index")
</div>

@section Scripts {
    @Scripts.Render("~/bundles/jqueryval")
}
```

## Details.cshtml:

```
@model FA1_6955_IPG.Models.Students

@{
    ViewBag.Title = "Details";
}

<h2>Details</h2>

<div>
    <h4>Students</h4>
    <hr />
    <dl class="dl-horizontal">
        <dt>
            @Html.DisplayNameFor(model => model.FirstName)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.FirstName)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.LastName)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.LastName)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Address1)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Address1)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Address2)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Address2)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Email)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Email)
        </dd>

    </dl>
</div>
<p>
    @Html.ActionLink("Edit", "Edit", new { id = Model.StudentNo }) |
    @Html.ActionLink("Back to List", "Index")
</p>
```

## Edit.cshtml:

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")

</head>
<body style="background-color : lightgray">
    <div style="background-color : maroon" 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("IT Systems Development", "Index", "Home", new { area
= "" }, new { @class = "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav" style="text-align: center">
                    <li> <img src="~/Images/Logo.JPG" /> </li>
                </ul>
                @Html.Partial("_LoginPartial")
            </div>
        </div>
    </div>
    <div style="background-color : lightgray" class="container body-content">
        @RenderBody()
        <hr />
        <footer>
            <p>&copy; @DateTime.Now.Year - CTU Training Salutions. All Rights
Reserved</p>
        </footer>
    </div>

    @Scripts.Render("~/bundles/jquery")
    @Scripts.Render("~/bundles/bootstrap")
    @RenderSection("scripts", required: false)
</body>
</html>
```

## Delete.cshtml:

```
@model FA1_6955_IPG.Models.Students

@{
    ViewBag.Title = "Delete";
}

<h2>Delete</h2>

<h3>Are you sure you want to delete this?</h3>
<div>
    <h4>Students</h4>
    <hr />
    <dl class="dl-horizontal">
        <dt>
            @Html.DisplayNameFor(model => model.FirstName)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.FirstName)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.LastName)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.LastName)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Address1)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Address1)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Address2)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Address2)
        </dd>

        <dt>
            @Html.DisplayNameFor(model => model.Email)
        </dt>

        <dd>
            @Html.DisplayFor(model => model.Email)
        </dd>

    </dl>

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

        <div class="form-actions no-color">
```

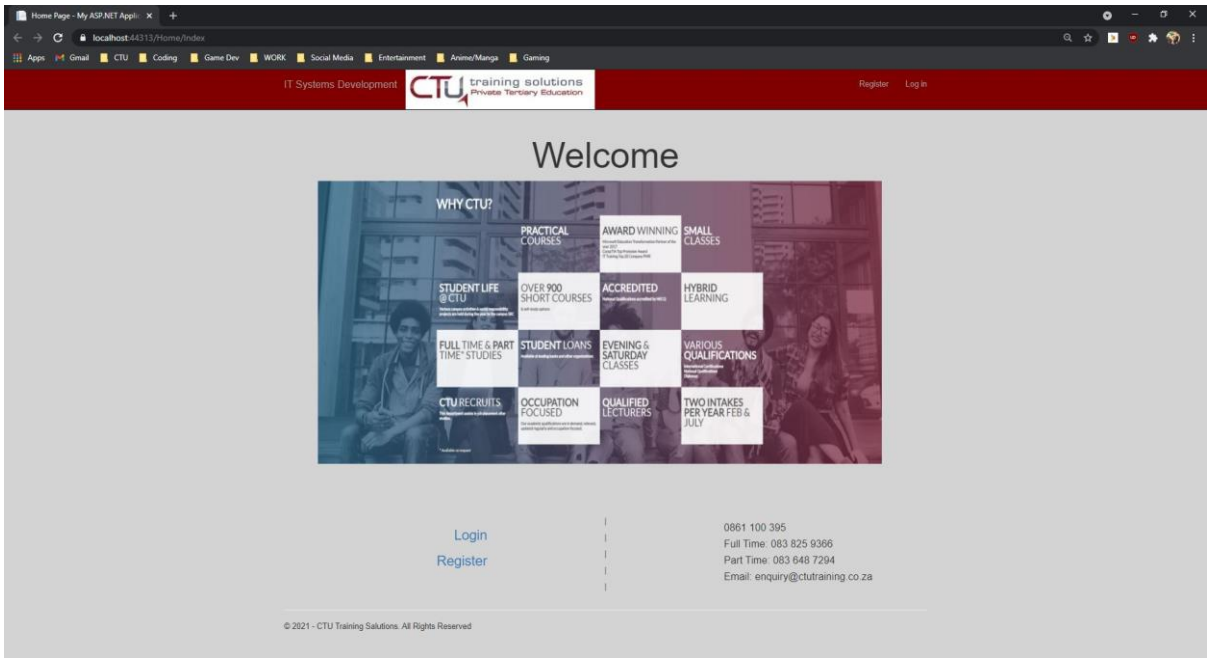
```
            <input type="submit" value="Delete" class="btn btn-default" /> |
            @Html.ActionLink("Back to List", "Index")
        </div>
    }
</div>
```

## _layout.cshtml:

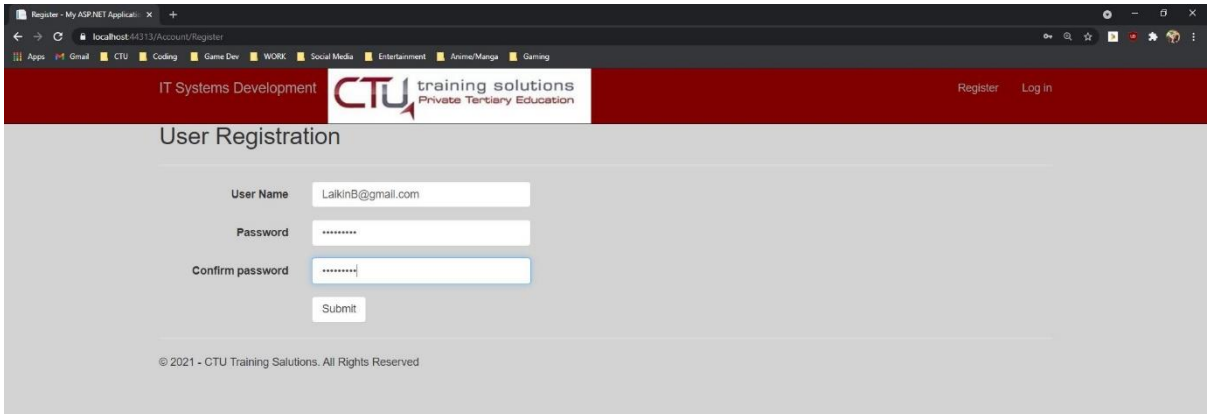
```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")

</head>
<body style="background-color : lightgray">
    <div style="background-color : maroon" 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("IT Systems Development", "Index", "Home", new { area
= "" }, new { @class = "navbar-brand" })
            </div>
            <div class="navbar-collapse collapse">
                <ul class="nav navbar-nav" style="text-align: center">
                    <li> <img src="~/Images/Logo.JPG" /> </li>
                </ul>
                @Html.Partial("_LoginPartial")
            </div>
        </div>
    </div>
    <div style="background-color : lightgray" class="container body-content">
        @RenderBody()
        <hr />
        <footer>
            <p>&copy; @DateTime.Now.Year - CTU Training Salutions. All Rights
Reserved</p>
        </footer>
    </div>

    @Scripts.Render("~/bundles/jquery")
    @Scripts.Render("~/bundles/bootstrap")
    @RenderSection("scripts", required: false)
</body>
</html>
```

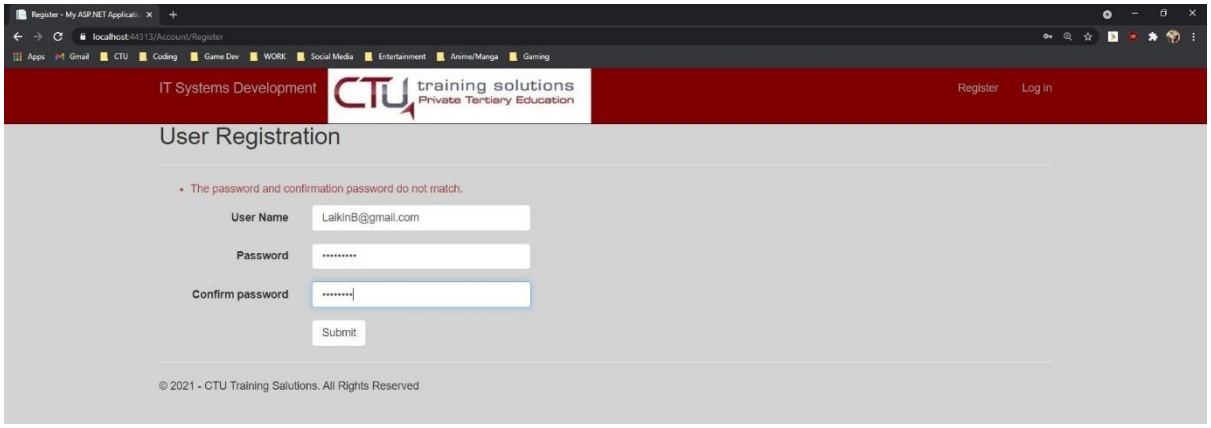
# Results:

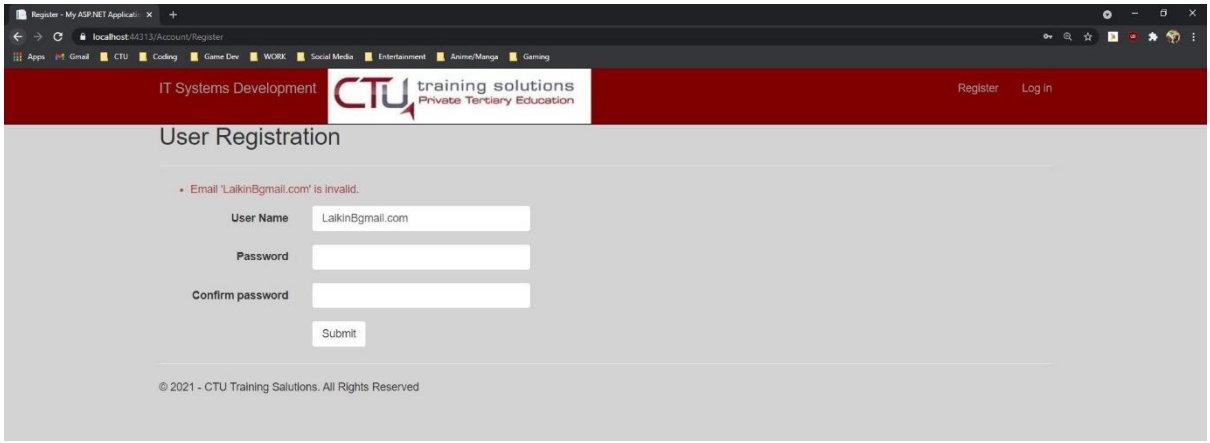
## Home:

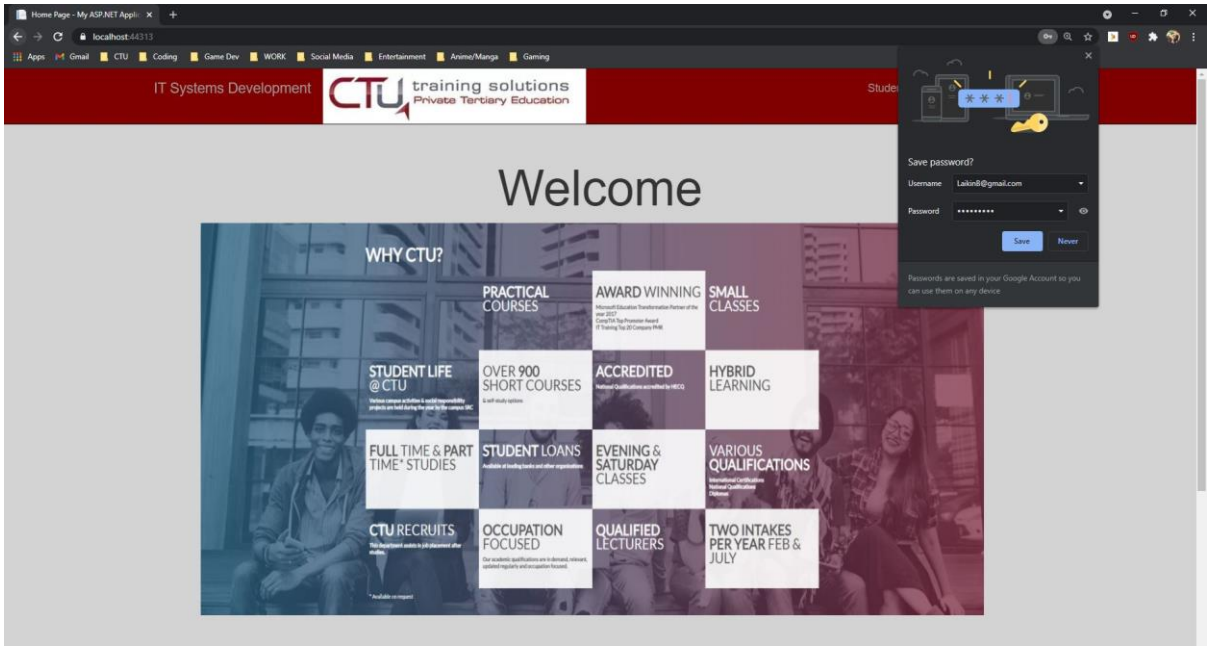



## Register:

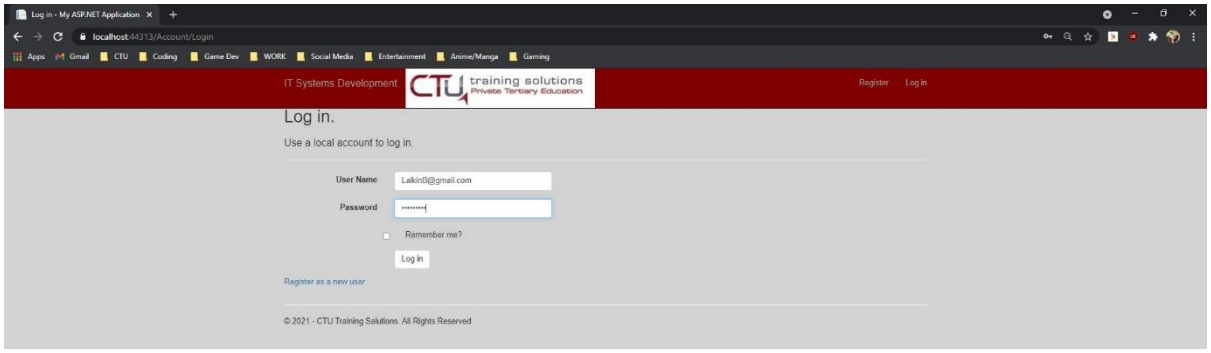


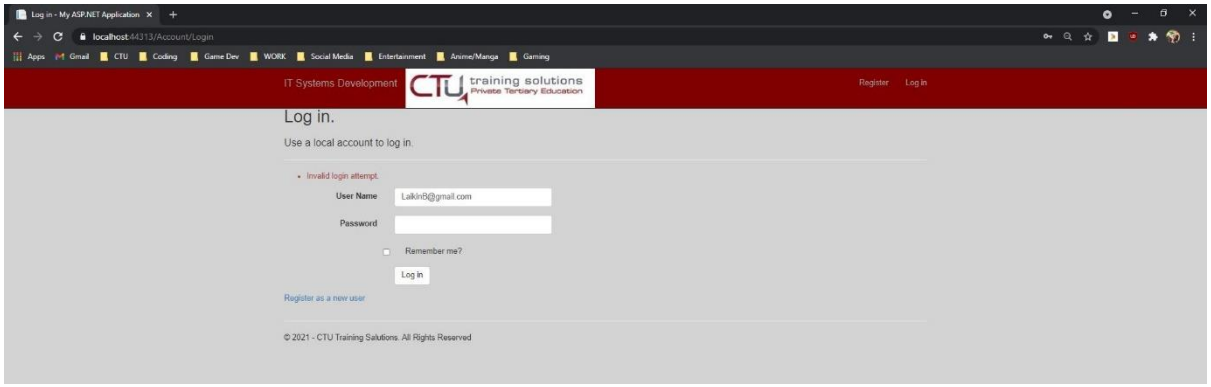



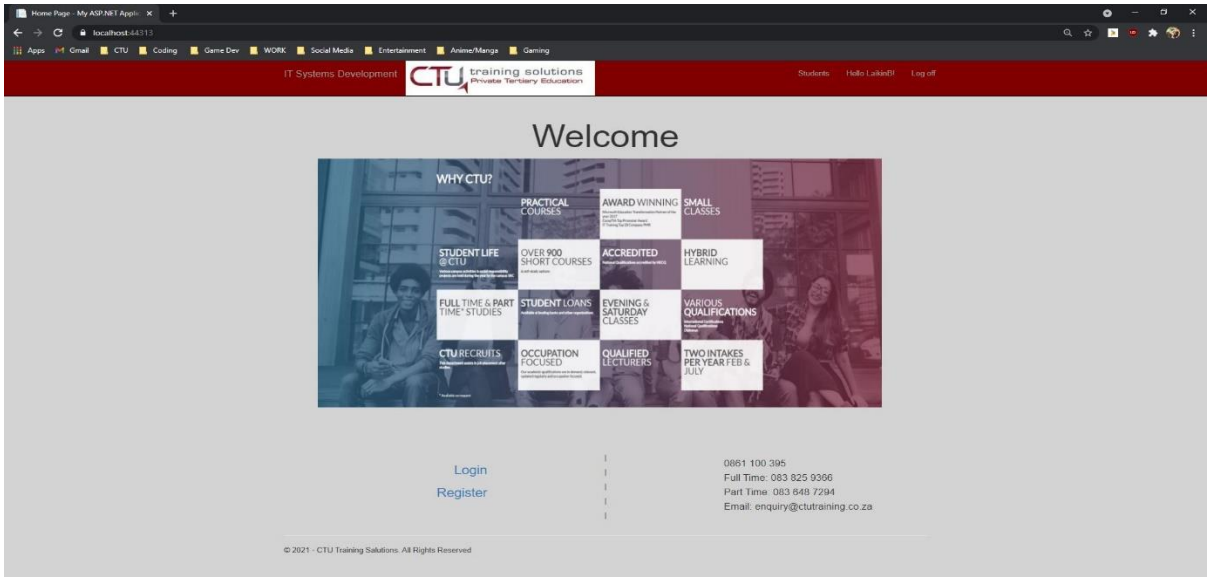

Register - My ASP.NET Applicati
localhost:44313/Account/Register
Apps Gmail CTU Coding Game Dev WORK Social Media Entertainment Anime/Manga Gaming
IT Systems Development
CTU training solutions Private Tertiary Education
Register Log in
User Registration
Email 'LaikinBgmail.com' is invalid.
User Name
LaikinBgmail.com
Password
Confirm password
Submit
© 2021 - CTU Training Salutions. All Rights Reserved

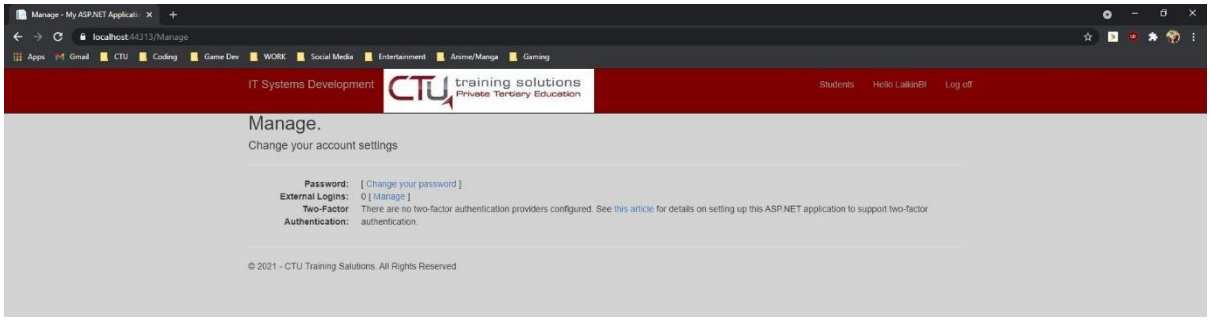

Home Page - My ASP.NET Appli
localhost:44313
Apps Gmail CTU Coding Game Dev WORK Social Media Entertainment Anime/Manga Gaming
IT Systems Development
CTU training solutions Private Tertiary Education
Welcome
WHY CTU?
PRACTICAL COURSES
AWARD WINNING
SMALL CLASSES
STUDENT LIFE @CTU
OVER 900 SHORT COURSES
ACCREDITED
HYBRID LEARNING
FULL TIME & PART TIME* STUDIES
STUDENT LOANS
EVENING & SATURDAY CLASSES
VARIOUS QUALIFICATIONS
CTU RECRUITS
OCCUPATION FOCUSED
QUALIFIED LECTURERS
TWO INTAKES PER YEAR FEB & JULY
Save password?
Username
Laikin8@gmail.com
Password
Save
Never
Passwords are saved in your Google Account so you can use them on any device

# Login:

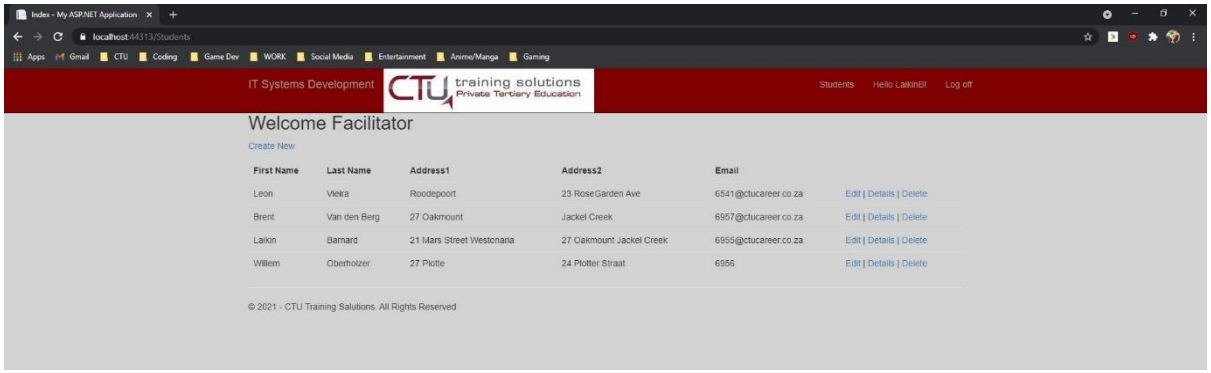

Log in - My ASP.NET Application
localhost:44313/Account/Login
IT Systems Development
CTU training solutions
Private Tertiary Education
Register
Log in
Log in.
Use a local account to log in.
User Name
LaikinB@gmail.com
Password
Remember me?
Log in
Register as a new user
© 2021 - CTU Training Solutions. All Rights Reserved


Log in - My ASP.NET Application
localhost:44313/Account/Login
IT Systems Development
CTU training solutions
Private Tertiary Education
Register
Log in
Log in.
Use a local account to log in.
Invalid login attempt.
User Name
LaikinB@gmail.com
Password
Remember me?
Log in
Register as a new user
© 2021 - CTU Training Solutions. All Rights Reserved

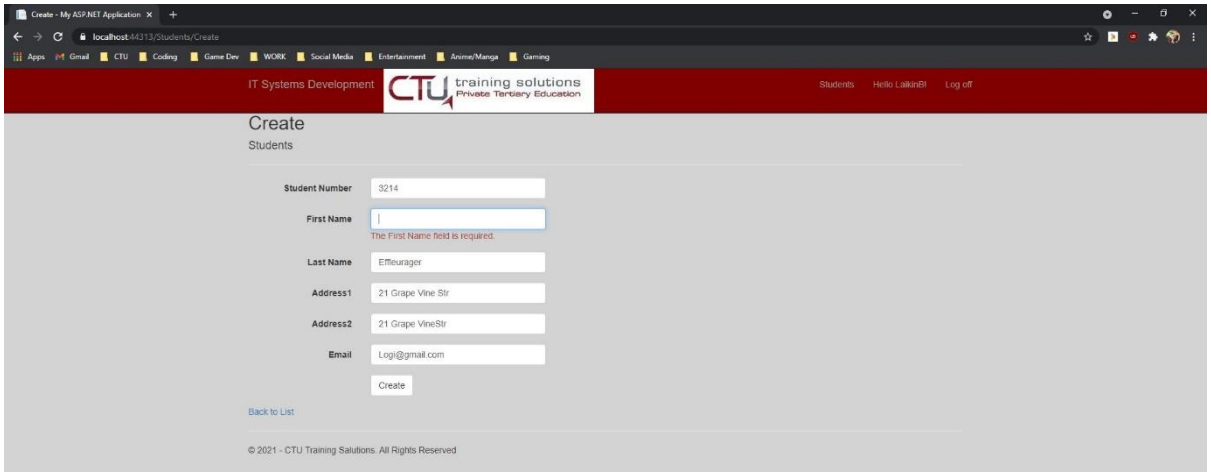

Home Page - My ASP.NET Appli
localhost:44313
IT Systems Development
CTU training solutions
Private Tertiary Education
Students
Hello LaikinB!
Log off
Welcome
WHY CTU?
PRACTICAL COURSES
AWARD WINNING
SMALL CLASSES
STUDENT LIFE @CTU
OVER 900 SHORT COURSES
ACCREDITED
HYBRID LEARNING
FULL TIME & PART TIME* STUDIES
STUDENT LOANS
EVENING & SATURDAY CLASSES
VARIOUS QUALIFICATIONS
CTU RECRUITS
OCCUPATION FOCUSED
QUALIFIED LECTURERS
TWO INTAKES PER YEAR FEB & JULY
Login
Register
0861 100 395
Full Time: 083 825 9366
Part Time: 083 648 7294
Email: enquiry@ctutraining.co.za
© 2021 - CTU Training Solutions. All Rights Reserved

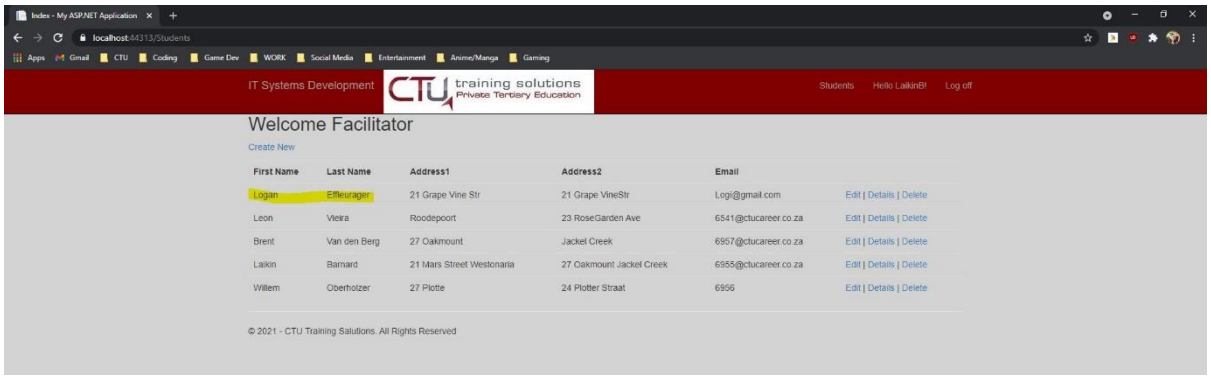

Manage - My ASP.NET Applicati
localhost:44313/Manage
IT Systems Development
CTU training solutions
Private Tertiary Education
Students
Hello LaikinB!
Log off
Manage.
Change your account settings
Password: [ Change your password ]
External Logins: 0 [ Manage ]
Two-Factor Authentication: There are no two-factor authentication providers configured. See this article for details on setting up this ASP.NET application to support two-factor authentication.
© 2021 - CTU Training Solutions. All Rights Reserved

## Students:

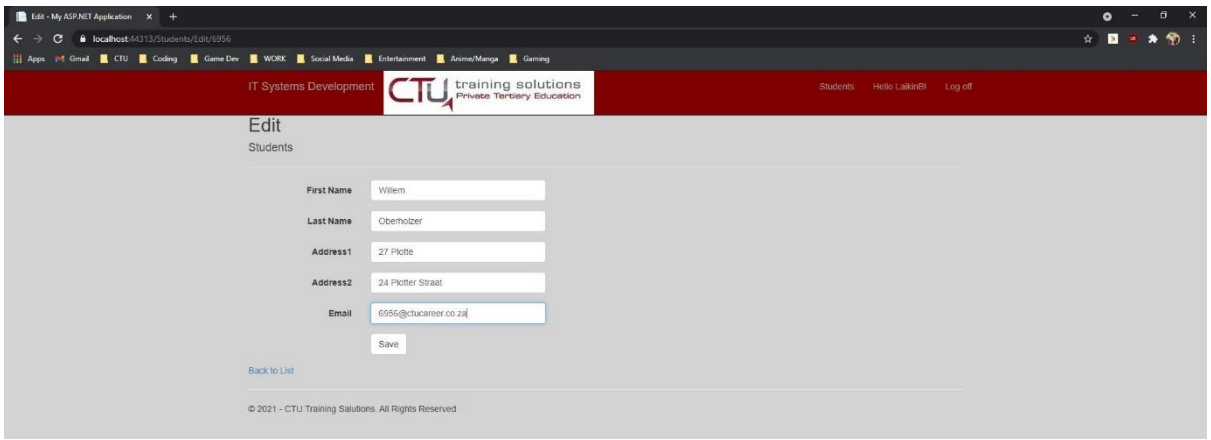


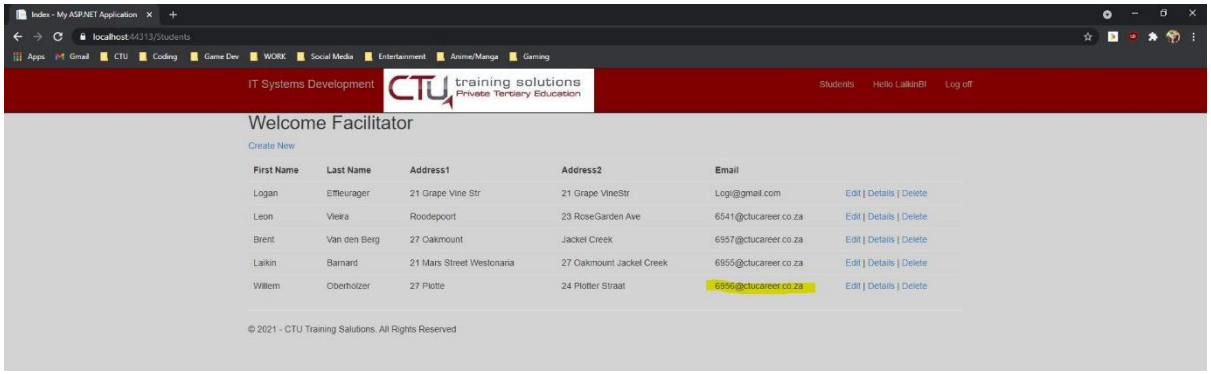

## Create:



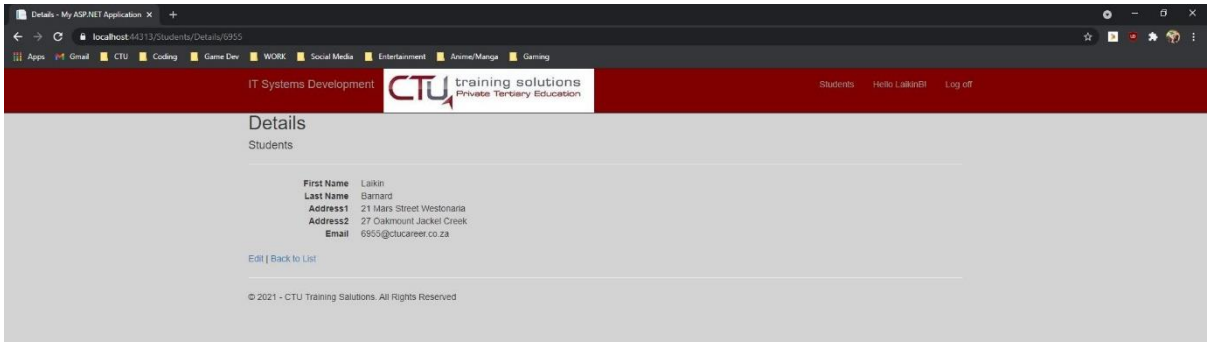




## Edit:

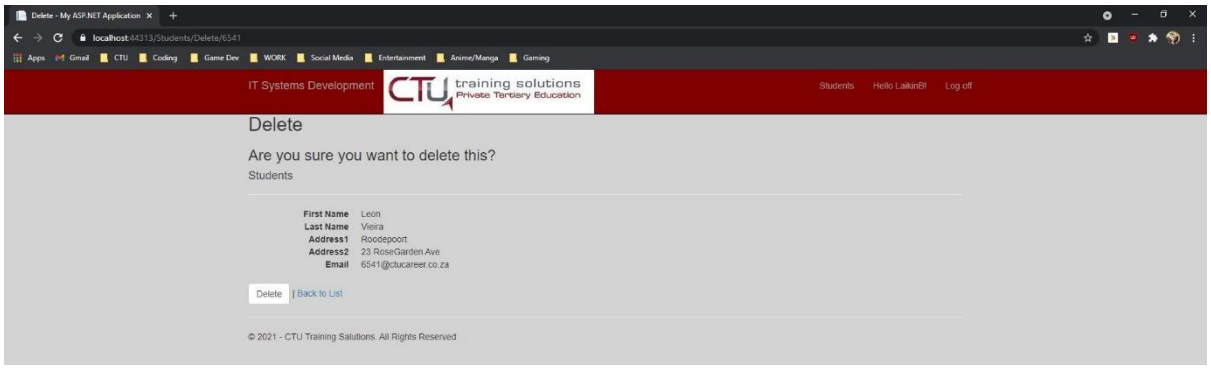


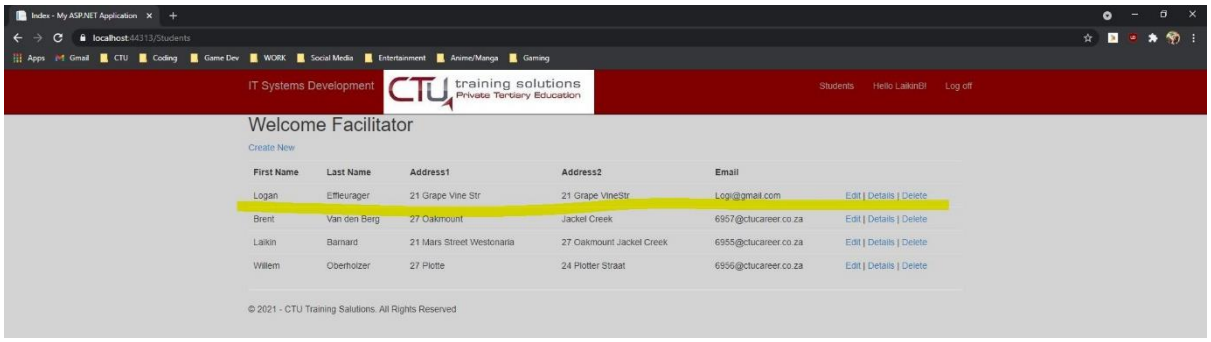



## Details:

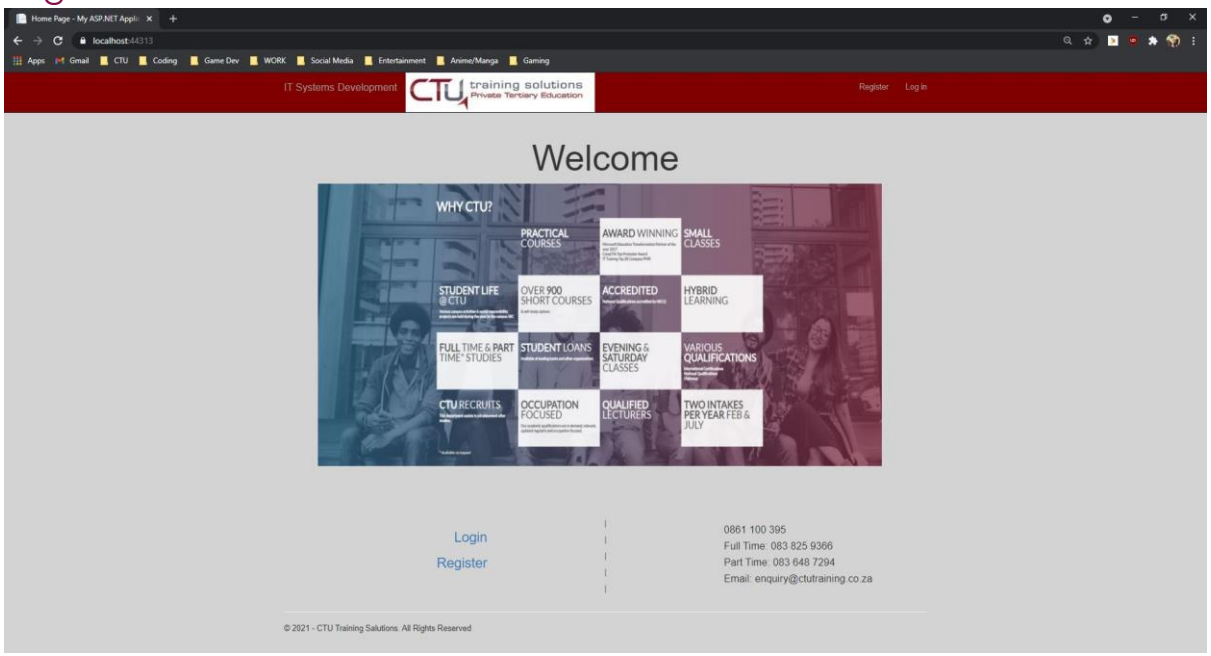



## Delete:



## Logout Home:




THE END