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Tipo : Guía de Enunciado

Capítulo : Aplicando técnicas en una aplicación ASP.NET MVC

Duración: 180 minutos

I. OBJETIVO

Implementa un Modal Popup para la carga de vistas parciales.

II. REQUISITOS

Los siguientes elementos de software son necesarios para la realización del laboratorio:

- Windows 10 (como mínimo Windows 8)
- Visual Studio 2017 (como mínimo Visual Studio 2015)

III. EJECUCIÓN DEL LABORATORIO

- 1. Abrir la solución del módulo anterior.
- 2. En el proyecto "Cibertec.Models" agregamos la referencia al namespace "System.ComponentModel.DataAnnotations"
- 3. En el mismo proyecto agregamos este dataanotation en la clase Customer: "[Required]" Guiarse por la imagen:

- 4. Instala el siguiente paquete al proyecto "Cibertec.Mvc":
 - Install-Package Microsoft.jQuery.Unobtrusive.Ajax
- 5. Procedemos a modificar el controlador Customer, esto con la finalidad de responder con vistar parciales, con el siguiente código:

```
using Cibertec.Models;
using Cibertec.UnitOfWork;
using System.Web.Mvc;
using log4net;
using Cibertec.Mvc.ActionFilters;

namespace Cibertec.Mvc.Controllers
{
    [ErrorActionFilter]
    public class CustomerController : BaseController
```

```
{
        public CustomerController(ILog log, IUnitOfWork unit) : base(log,
unit)
        }
        public ActionResult Error()
            throw new System.Exception("Test error to validate Action
Filter");
        public ActionResult Index()
        {
            log.Info("Execution of Customer Controller OK");
            return View(_unit.Customers.GetList());
        }
        public PartialViewResult Create()
            return PartialView("_Create", new Customer());
        }
        [HttpPost]
        public ActionResult Create(Customer customer)
            if (!ModelState.IsValid) return PartialView("_Create",
customer);
            _unit.Customers.Insert(customer);
            return RedirectToAction("Index");
        }
        public ActionResult Edit(int id)
        {
            return PartialView("_Edit", _unit.Customers.GetById(id));
        }
        [HttpPost]
        public ActionResult Edit(Customer customer)
            if (!ModelState.IsValid) return PartialView(" Edit",
customer);
            _unit.Customers.Update(customer);
            return RedirectToAction("Index");
        }
        public ActionResult Delete(int id)
            return PartialView("_Delete", _unit.Customers.GetById(id));
        [HttpPost]
        public ActionResult Delete(Customer customer)
            if (_unit.Customers.Delete(customer)) return
RedirectToAction("Index");
            return PartialView("_Delete", customer);
        }
    }
}
```

6. Iniciamos a refactorizar las vistas de la carpeta Customer:

(2) Antes de continuar con el refactoring de las vistas Create, Edit y Delete las renombramos de la siguiente manera: **Create**, **Edit y Delete**:

```
✓ Views

✓ Account

✓ Customer

⑥ _ Create.cshtml

⑥ _ Delete.cshtml

⑥ [@] _ Edit.cshtml

⑥ [@] _ List.cshtml

✓ [@] Index.cshtml
```

(3) Editamos la vista "_Create" y la dejamos con el siguiente código:

```
@model Cibertec.Models.Customer
<h2>Create</h2>
@using (Ajax.BeginForm("Create", new { Controller = "Customer" },
new AjaxOptions
{
   HttpMethod = "POST",
   InsertionMode = InsertionMode.Replace,
   UpdateTargetId = "modal-body",
   OnSuccess = "customer.success();"
htmlAttributes: new { id = "createForm" }))
{
    MHtml.AntiForgeryToken()
    <div class="form-horizontal">
        @Html.ValidationSummary(true, "", new { @class = "text-danger"
})
        <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.City, htmlAttributes: new {
@class = "control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.City, new {
htmlAttributes = new { @class = "form-control" } })
                @Html.ValidationMessageFor(model => model.City, "", new
{ @class = "text-danger" })
            </div>
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.Country, htmlAttributes: new
{ @class = "control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.Country, new {
htmlAttributes = new { @class = "form-control" } })
                @Html.ValidationMessageFor(model => model.Country, "",
new { @class = "text-danger" })
            </div>
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.Phone, htmlAttributes: new {
@class = "control-label col-md-2" })
            <div class="col-md-10">
                @Html.EditorFor(model => model.Phone, new {
htmlAttributes = new { @class = "form-control" } })
                @Html.ValidationMessageFor(model => model.Phone, "",
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-</pre>
default" />
            </div>
        </div>
    </div>
}
<script type="text/javascript">
    $(function () {
        $.validator.unobtrusive.parse("#createForm");
    });
</script>
```

```
(4) Editamos la vista "_Edit" y la dejamos con el siguiente código:
   @model Cibertec.Models.Customer
   <h2>Edit</h2>
   @using (Ajax.BeginForm("Edit", new { Controller = "Customer" },
                                    new AjaxOptions
                                    {
                                        HttpMethod = "POST",
                                        InsertionMode =
   InsertionMode.Replace,
                                        UpdateTargetId = "modal-body",
                                        OnSuccess = "customer.success();"
                                    }, htmlAttributes: new { id =
   "editForm" }))
   {
       @Html.AntiForgeryToken()
       <div class="form-horizontal">
           @Html.ValidationSummary(true, "", new { @class = "text-danger"
   })
           @Html.HiddenFor(model => model.Id)
           <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.City, htmlAttributes: new {
   @class = "control-label col-md-2" })
               <div class="col-md-10">
                    @Html.EditorFor(model => model.City, new {
   htmlAttributes = new { @class = "form-control" } })
                    @Html.ValidationMessageFor(model => model.City, "", new
   { @class = "text-danger" })
               </div>
           </div>
           <div class="form-group">
               @Html.LabelFor(model => model.Country, htmlAttributes: new
   { @class = "control-label col-md-2" })
               <div class="col-md-10">
                   @Html.EditorFor(model => model.Country, new {
   htmlAttributes = new { @class = "form-control" } })
```

```
@Html.ValidationMessageFor(model => model.Country, "",
   new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                @Html.LabelFor(model => model.Phone, htmlAttributes: new {
   @class = "control-label col-md-2" })
                <div class="col-md-10">
                    @Html.EditorFor(model => model.Phone, new {
   htmlAttributes = new { @class = "form-control" } })
                    @Html.ValidationMessageFor(model => model.Phone, "",
   new { @class = "text-danger" })
                </div>
            </div>
            <div class="form-group">
                <div class="col-md-offset-2 col-md-10">
                    <input type="submit" value="Save" class="btn btn-</pre>
   default" />
                </div>
            </div>
       </div>
   }
   <script type="text/javascript">
       $(function () {
            $.validator.unobtrusive.parse("#editForm");
       });
   </script>
(5) Editamos la vista "_Delete" y la dejamos con el siguiente código:
   @model Cibertec.Models.Customer
   <h2>Delete</h2>
   <h3>Are you sure you want to delete this?</h3>
   <div>
       <hr />
       <dl class="dl-horizontal">
            <dt>>
                @Html.DisplayNameFor(model => model.FirstName)
            </dt>
                @Html.DisplayFor(model => model.FirstName)
            </dd>
                @Html.DisplayNameFor(model => model.LastName)
            </dt>
                @Html.DisplayFor(model => model.LastName)
            </dd>
            <dt>
                @Html.DisplayNameFor(model => model.City)
            </dt>
            <dd>>
                @Html.DisplayFor(model => model.City)
            </dd>
```

```
<dt>
               MHtml.DisplayNameFor(model => model.Country)
           </dt>
           <dd>>
               @Html.DisplayFor(model => model.Country)
           </dd>
           <dt>
               @Html.DisplayNameFor(model => model.Phone)
           </dt>
           <dd>
               @Html.DisplayFor(model => model.Phone)
           </dd>
       </dl>
       @using (Ajax.BeginForm("Delete", new { Controller = "Customer" },
                                               new AjaxOptions
                                               {
                                                   HttpMethod = "POST",
                                                   InsertionMode =
   InsertionMode.Replace,
                                                   UpdateTargetId =
   "modal-body",
                                                   OnSuccess =
   "customer.success();"
                                               }, htmlAttributes: new { id
   = "deleteForm" }))
       {
           @Html.AntiForgeryToken()
           <div class="form-actions no-color">
               <input type="submit" value="Delete" class="btn btn-default"</pre>
   />
           </div>
   </div>
   <script type="text/javascript">
       $(function () {
           $.validator.unobtrusive.parse("#deleteForm");
       });
   </script>
(6) Creamos la vista parcial "_List" con el siguiente código:
   @model IEnumerable<Cibertec.Models.Customer>
   <div class="table-responsive">
       @Html.DisplayNameFor(model => model.FirstName)
               @Html.DisplayNameFor(model => model.LastName)
               @Html.DisplayNameFor(model => model.City)
```

```
@Html.DisplayNameFor(model => model.Country)
           MHtml.DisplayNameFor(model => model.Phone)
           @foreach (var item in Model)
           >
                   MHtml.DisplayFor(modelItem => item.FirstName)
               @Html.DisplayFor(modelItem => item.LastName)
               >
                   @Html.DisplayFor(modelItem => item.City)
               >
                   @Html.DisplayFor(modelItem => item.Country)
               >
                   @Html.DisplayFor(modelItem => item.Phone)
               <a href="#"
onclick="cibertec.getModal('@Url.Action("Edit",new { id=item.Id})');
return false; data-toggle="modal" data-target="#modal-container"
class="btn btn-warning btn-sm">
                       <span class="glyphicon glyphicon-edit"></span>
Edit
                   </a>
                   <a href="#"
onclick="cibertec.getModal('@Url.Action("Delete",new { id=item.Id})');
return false;" data-toggle="modal" data-target="#modal-container"
class="btn btn-danger btn-sm">
                       <span class="glyphicon glyphicon-edit"></span>
Delete
                   </a>
               </div>
```

(7) Editamos la vista "_Layout" que se encuentra en la ruta "Views\Shared" con el siguiente código:

```
<!DOCTYPE html>
<html>
<meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/jquery")
    @Scripts.Render("~/bundles/jqueryval")
    <script src="~/Scripts/jquery.unobtrusive-ajax.js"></script>
    @Scripts.Render("~/bundles/modernizr")
</head>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="container">
           <div class="navbar-header">
               <button type="button" class="navbar-toggle" data-</pre>
toggle="collapse" data-target=".navbar-collapse">
                   <span class="icon-bar"></span>
                   <span class="icon-bar"></span>
                   <span class="icon-bar"></span>
               </button>
               @Html.ActionLink("Cibertec Web", "Index", "Home", new {
area = "" }, new { @class = "navbar-brand" })
           </div>
           <div class="navbar-collapse collapse">
               @Html.ActionLink("Home", "Index", "Home")
                   OHtml.ActionLink("Customer", "Index",
"Customer")
               @Html.Partial("_LoginPartial")
           </div>
        </div>
    <div class="container body-content">
       @RenderBody()
        <hr />
        <footer>
            © @DateTime.Now.Year - Cibertec Web Application
        </footer>
    </div>
    @Scripts.Render("~/bundles/bootstrap")
    @RenderSection("scripts", required: false)
</body>
</html>
```

7. En la raíz del proyecto "Cibertec.Mvc" creamos la carpeta "App" en la que ubicaremos nuestros ficheros Javascript con el código necesario para usar las vistas parciales en un modal popup.

8. Crear en la carpeta App un archivo nuevo con el nombre "cibertec.js" y agrega el siguiente código:

```
(function (cibertec) {
    cibertec.getModal = getModalContent;
    cibertec.closeModal = closeModal;

    return cibertec;

    function getModalContent(url) {
        $.get(url, function (data) {
              $('.modal-body').html(data);
            })
    }

    function closeModal() {
        $("button[data-dismiss='modal']").click();
        $('.modal-body').html("");
    }
})(window.cibertec = window.cibertec || {});
```

9. Crea un archivo nuevo javascript con el nombre "customer.js" y agrega el siguiente código:

```
(function (customer) {
    customer.success = successReload;

    return customer;

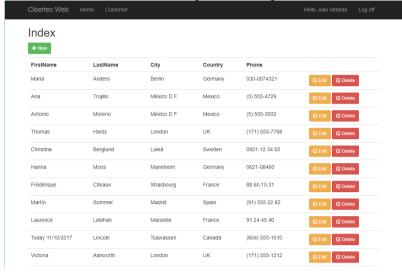
    function successReload() {
        cibertec.closeModal();
    }
})(window.customer = window.customer || {});
```

10.En la vista "**Index**" de la carpeta "**Views\Customer**" agrega las llamadas a los 2 ficheros javascript creados:

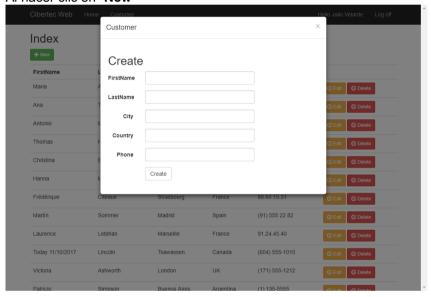
```
<script src="~/App/cibertec.js" type="text/javascript"></script>
<script src="~/App/customer.js" type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></sc
```

Guiarse de la imagen:

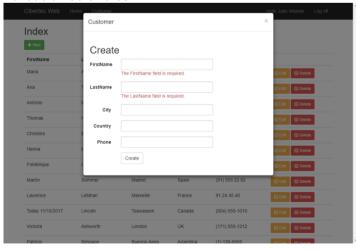
11.El resultado será como en las siguientes imágenes:



Al hacer clic en "New"



Validación de errores:



12. Hacer lo mismo con las demás opciones.

IV. EVALUACIÓN

1. ¿Por qué para vistas parciales se deben de usar "_" el guion bajo?

Bajo el lenguaje Razor, el guion bajo permite evitar mostrar Web Pages cuando son solicitadas directamente como parte de un request.