

Documentacion del Proyecto Sport Shop

Este Proyecto basado en realización de ordenes de pedidos de una tienda de deportes usando el framework de serenity, creado con el fin de que el admin cree las ordenes de los clientes y los clientes puedan solo pueden ver el estatus de la orden en tiempo real que hicieron en el local.

Donde se darán los detalles de funcionamiento que se usaron para elaborar el proyecto que serían:

En el apartado de migraciones esta:

DefaultDB_20240123_193200_TableProduct.cs: creación de la tabla product, creación del esquema usado.

```
1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240123193200)]
6      public class DefaultDB_20240123_193200_TableProduct : AutoReversingMigration
7      {
8          public override void Up()
9          {
10              Create.Schema("spt");
11              Create.Table("Product").InSchema("spt")
12                  .WithColumn("ProductId").AsInt32().Identity().PrimaryKey().NotNullable()
13                  .WithColumn("Title").AsString(100).NotNullable()
14                  .WithColumn("Price").AsInt32().NotNullable();
15          }
16      }
17  }
```

DefaultDB_20240124_185400_TableCustomer.cs: Creación de la tabla de customers.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240124185400)]
6      public class DefaultDB_20240124_185400_TableCustomer : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Create.Table("Customer").InSchema("spt")
11                 .WithColumn("CustomerId").AsInt32().Identity().PrimaryKey().NotNullable()
12                 .WithColumn("Firstname").AsString(50).NotNullable()
13                 .WithColumn("Lastname").AsString(50).NotNullable()
14                 .WithColumn("Gender").AsInt32().NotNullable()
15                 .WithColumn("Email").AsString();
16          }
17      }
18  }

```

DefaultDB_20240124_185500_TableOrder.cs: Creación de la tabla de order.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240124185500)]
6      public class DefaultDB_20240124_185500_TableOrder : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Create.Table("Order").InSchema("spt")
11                 .WithColumn("OrderId").AsInt32().Identity().PrimaryKey().NotNullable()
12                 .WithColumn("CustomerId").AsInt32().NotNullable()
13                 .ForeignKey("FK_Order_CustomerId", "spt", "customer", "CustomerId")
14                 .WithColumn("Status").AsInt32().NotNullable().WithDefaultValue(1)
15                 .WithColumn("ReleaseDate").AsDateTime().Nullable()
16                 .WithColumn("Total").AsDouble().NotNullable();
17          }
18      }
19  }
20

```

DefaultDB_20240124_190200_TableOrderDetails.cs: Creación de la tabla OrderDetails.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240124190200)]
6      public class DefaultDB_20240124_190200_TableOrderDetails : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Create.Table("OrderDetails").InSchema("spt")
11                 .WithColumn("OrderDetailsId").AsInt32().Identity()
12                 .PrimaryKey().NotNullable()
13                 .WithColumn("OrderId").AsInt32().NotNullable()
14                 .ForeignKey("FK_OrderDetails_OrderId", "spt", "Order", "OrderId")
15                 .WithColumn("ProductId").AsInt32().NotNullable()
16                 .ForeignKey("FK_OrderDetails_CustomerId", "spt", "Product", "ProductId")
17                 .WithColumn("Quantity").AsInt32().NotNullable();
18          }
19      }
20  }

```

DefaultDB_20240125_174900_UpdateProduct.cs: elimina y agrega a la tabla producto una columna
Pero con otro dato.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240125174900)]
6      public class DefaultDB_20240125_174900_UpdateProduct : Migration
7      {
8          public override void Up()
9          {
10             Delete.Column("Price").FromTable("Product").InSchema("spt");
11
12             Alter.Table("Product").InSchema("spt")
13                 .AddColumn("Price").AsDouble().Nullable();
14          }
15          public override void Down()
16          {
17          }
18      }
19  }

```

DefaultDB_20240125_202300_UpdateOrder.cs: elimina Columna de la tabla order.

```
1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240125202300)]
6      public class DefaultDB_20240125_202300_UpdateOrder : Migration
7      {
8          public override void Up()
9          {
10             Delete.Column("Total").FromTable("Order").InSchema("spt");
11          }
12          public override void Down()
13          {
14          }
15      }
16  }
```

DefaultDB_20240125_230200_UpdateOrderDetails.cs: Agrega a la tabla OrderDetails una nueva columna.

```
1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240125230200)]
6      public class DefaultDB_20240125_230200_UpdateOrderDetails : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Alter.Table("OrderDetails").InSchema("spt")
11                 .AddColumn("UnitPrice").AsDouble().Nullable();
12          }
13      }
14  }
```

DefaultDB_20240126_191100_UpdateCustomer.cs: Agrega a la tabla Customer una nueva columna.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240126191100)]
6      public class DefaultDB_20240126_191100_UpdateCustomer : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Alter.Table("Customer").InSchema("spt")
11                 .AddColumn("UserId").AsInt32().Nullable()
12                 .ForeignKey("FK_Customer_UserId","dbo", "Users", "UserId");
13          }
14      }
15  }

```

DefaultDB_20240126_221100_UpdateOrder2.cs: Se agrega otra columna a la tabla order.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240126221100)]
6      public class DefaultDB_20240126_221100_UpdateOrder2 : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Alter.Table("Order").InSchema("spt")
11                 .AddColumn("ShipCity").AsInt32().Nullable();
12          }
13      }
14  }

```

DefaultDB_20240126_230100_UpdateCustomer2.cs: Se le agrega otra columna a la tabla customer.

```

1  using FluentMigrator;
2
3  namespace FinalPractice.Migrations.DefaultDB
4  {
5      [Migration(20240126230100)]
6      public class DefaultDB_20240126_230100_UpdateCustomer2 : AutoReversingMigration
7      {
8          public override void Up()
9          {
10             Alter.Table("Customer").InSchema("spt")
11                 .AddColumn("Address").AsString(255).NotNullable()
12                 .WithDefaultValue("");
13          }
14      }
15  }

```

Uso de la aplicación sergen en el módulo **SportDB**, generando los siguientes códigos de las siguientes tablas previamente creadas en las migraciones:

Customer: Row, Service, UI, Custom

Order: Row, Service, UI, Custom

OrderDetails: Row, Service, Custom

Product: Row, Service, UI, Custom

En ../Module/SportDB esta lo creado por sergen y de esos datos se alteraron o agregados son estos:

Customer

CustomerColumn.cs: se le agrego Fullname y email definidos en CustomerRow.

```
namespace FinalPractice.SportDB.Columns
{
    using Serenity;
    using Serenity.ComponentModel;
    using Serenity.Data;
    using System;
    using System.ComponentModel;
    using System.Collections.Generic;
    using System.IO;

    [ColumnsScript("SportDB.Customer")]
    [BasedOnRow(typeof(Entities.CustomerRow), CheckNames = true)]
    public class CustomerColumns
    {
        [EditLink, DisplayName("Db.Shared.RecordId"), AlignRight]
        public Int32 CustomerId { get; set; }
        //Show full name
        [EditLink]
        public String Fullname { get; set; }
        //show user Email
        public String Email { get; set; }
        public Gender Gender { get; set; }
        public String Address { get; set; }
    }
}
```

CustomerDialog.ts: se agregó una función para pestaña para ver las ordenes en el formulario de Customer y un filtro que solo muestra las ordenes que tiene ese customer.

```

private orderGrid: CustomerOrderGrid;

constructor() {
    super();
    //show another tap in CustomerForm
    this.orderGrid = new CustomerOrderGrid(this.byId("OrderGrid"));
    this.tabs.on('tabsactivate', (e, i) => {
        this.arrange();
    });
}

//filtering orders by customerId
protected afterLoadEntity() {
    super.afterLoadEntity();
    this.orderGrid.customerId = this.entityId;
}

```

CustomerForm.cs: se le agrego los atributos category para mostrar una división en el formulario y la selección de genero.

```

namespace FinalPractice.SportDB.Forms
{
    using Serenity;
    using Serenity.ComponentModel;
    using Serenity.Data;
    using System;
    using System.ComponentModel;
    using System.Collections.Generic;
    using System.IO;

    [FormScript("SportDB.Customer")]
    [BasedOnRow(typeof(Entities.CustomerRow), CheckNames = true)]
    public class CustomerForm
    {
        [Category("Customer")]
        public String Firstname { get; set; }
        public String Lastname { get; set; }
        //select gender in the form
        public Gender Gender { get; set; }
        [Category("Other details")]
        public String Address { get; set; }
    }
}

```

CustomerOrderColumns.cs: Formulario para las ordenes que están en la pestaña del formulario Customer.

```

namespace FinalPractice.SportDB.Columns
{
    using Serenity;
    using Serenity.ComponentModel;
    using Serenity.Data;
    using System;
    using System.ComponentModel;
    using System.Collections.Generic;
    using System.IO;

    // form for order tab in CustomerForm
    [ColumnsScript("SportDB.CustomerOrder")]
    [BasedOnRow(typeof(Entities.OrderRow))]
    0 references
    public class CustomerOrderColumns
    {
        [EditLink, DisplayName("Db.Shared.RecordId"), AlignRight]
        0 references
        public Int32 OrderId { get; set; }
        [EditLink, DisplayName("Full Name")]
        0 references
        public String CustomerFullname { get; set; }
        0 references
        public OrderStatus Status { get; set; }
        [Width(120)]
        0 references
        public OrderCity ShipCity { get; set; }
        0 references
        public DateTime ReleaseDate { get; set; }
    }
}

```

CustomerOrderDialog.ts: dialog que muestra el dato seleccionado en la pestaña de order en el formulario de Customer.

```

1    /// <reference path="../../Order/OrderDialog.ts" />
2
3    namespace FinalPractice.SportDB {
4
5        //Use for show details in customerOrder
6
7        @Serenity.Decorators.registerClass()
8        export class CustomerOrderDialog extends OrderDialog {
9
10           constructor() {
11               super();
12           }
13
14           updateInterface() {
15               super.updateInterface();
16
17               Serenity.EditorUtils.setReadOnly(this.form.CutormerId, true);
18           }
19       }
20   }
21

```


CustomerOrderGrid.ts: Grid de la pestaña de ordenes en el formulario de Customer

```
1 namespace FinalPractice.SportDB {
2     @Serenity.Decorators.registerClass()
3     export class CustomerOrderGrid extends Serenity.EntityGrid<OrderRow, any>
4     {
5         protected getColumnsKey() { return "SportDB.CustomerOrder"; }
6         protected getIdProperty() { return OrderRow.idProperty; }
7
8         //see details in CustomerOrder
9         protected getDialogType() { return CustomerOrderDialog; }
10
11         protected getLocalTextPrefix() { return OrderRow.localTextPrefix; }
12         protected getService() { return OrderService.baseUrl; }
13         constructor(container: JQuery) {
14             super(container);
15         }
16         //disable buttons in order tap in CustomerForm
17         protected getButtons() {
18             return null;
19         }
20         protected getInitialTitle() {
21             return null;
22         }
23         protected usePager() {
24             return false;
25         }
26
27         protected getGridCanLoad() {
28             return super.getGridCanLoad() && !!this.customerId;
29         }
30
31         private _customerId: number;
32
33         get customerId() {
34             return this._customerId;
35         }
36
37         //validation filtering orders by customerId
38         set customerId(value: number) {
39             if (this._customerId != value) {
40                 this._customerId = value;
41                 this.setEquality(OrderRow.Fields.CustomerId, value);
42                 this.refresh();
43             }
44         }
45     }
46 }
47
```

CustomerRepository.cs: se edito la función ListRequestHandler para que filtre si el usuario logueado no tiene permisos de admin solo muestre el customer de ese usuario.

```

43 private class MyListHandler : ListRequestHandler<MyRow> {
44
45     0 references
46     protected override void ApplyFilters(SqlQuery query)
47     {
48         base.ApplyFilters(query);
49         //user Logged in
50         var user = (UserDefinition)Authorization.UserDefinition;
51
52         //condition to know if you have general permissions if it does not show you your orders
53
54         if (!Authorization.HasPermission(PermissionKeys.General))
55             query.Where(fld.CustomerId == user.UserId);
56     }
57 }

```

CustomerRow.cs: cambio de permisos de View solo podrán leer los detalles, declaración de valores que no trajo sergen

```

14
15 //only read permission
16 [ReadPermission(PermissionKeys.Customer.View)]
17
18 [ModifyPermission("Administration:General")]

```

```

43 //Concat the firstname and lastname
44
45 [DisplayName("Full Name")]
46 [Expression("(t0.Firstname + ' ' + t0.Lastname)", QuickSearch)]
47
48 0 references
49 public String Fullname
50 {
51     get { return Fields.Fullname[this]; }
52     set { Fields.Fullname[this] = value; }
53 }
54 // user email
55 [DisplayName("Email")]
56 [Expression("jUser.[Email]")]
57
58 0 references
59 public String Email
60 {
61     get { return Fields.Email[this]; }
62     set { Fields.Email[this] = value; }
63 }
64 // customer gender (male or female)
65 [DisplayName("Gender"), NotNull]
66
67 0 references
68 public Gender? Gender
69 {
70     get { return (Gender?)Fields.Gender[this]; }
71     set { Fields.Gender[this] = (Int32?)value; }
72 }
73 // Address
74 [DisplayName("Address"), Width(200), DefaultValue("none")]
75
76 0 references
77 public String Address
78 {
79     get { return Fields.Address[this]; }
80     set { Fields.Address[this] = value; }
81 }
82 //concat Fullname and Username
83 [Expression("(t0.Firstname + ' ' + t0.Lastname + ' ' + ('+ jUser.[Username] +'))")]
84
85 0 references
86 public String FullUsername
87 {
88     get { return Fields.FullUsername[this]; }
89     set { Fields.FullUsername[this] = value; }
90 }

```

```

83 // id user
84 [DisplayName("User"), ForeignKey("[dbo].[Users]", "UserId"), LeftJoin("jUser"), TextualField("")]
85 [Expression("t0.[CustomerId]")]
86
87 0 references
88 public Int32? UserId
89 {
90     get { return Fields.UserId[this]; }
91     set { Fields.UserId[this] = value; }
92 }
93 0 references
94 IIidField IIidRow.IdField
95 {
96     get { return Fields.CustomerId; }
97 }
98 0 references
99 StringField INameRow.NameField
100 {
101     //show in Lookup the "fullname (username)"
102     get { return Fields.FullUsername; }
103 }
104
105 public static readonly RowFields Fields = new RowFields().Init();
106
107 0 references
108 public CustomerRow()
109     : base(Fields)
110 {
111 }
112 3 references
113 public class RowFields : RowFieldsBase
114 {
115     public Int32Field CustomerId;
116     public Int32Field UserId;
117     public StringField Firstname;
118     public StringField Lastname;
119     public StringField Fullname;
120     public StringField FullUsername;
121     public StringField Address;
122     public Int32Field Gender;
123     public StringField Email;
124 }

```

Gender.cs: un enum para de los géneros usado en Gender en CustomerRow.

```

1 using Serenity.ComponentModel;
2 using System.ComponentModel;
3 namespace FinalPractice.SportDB
4 {
5     //enum of various Gender
6
7     [EnumKey("SportDB.Gender")]
8     4 references
9     public enum Gender
10     {
11         [Description("Male")]
12         Male = 1,
13         [Description("Female")]
14         Female = 2
15     }
16 }

```

SportDB.CustomerDialog.Template.html: Plantilla para crear la pestaña de orders en el formulario de Customer.

```
1  <!-- Template to see other tap in CustomerForm -->
2
3  <div id="~_Tabs" class="s-DialogContent">
4      <ul>
5          <li><a href="#~_TabInfo"><span>Customer</span></a></li>
6          <li><a href="#~_TabOrder"><span>Orders</span></a></li>
7      </ul>
8      <div id="~_TabInfo" class="tab-pane s-TabInfo">
9          <div id="~_Toolbar" class="s-DialogToolbar">
10             </div>
11             <div class="s-Form">
12                 <form id="~_Form" action="">
13                     <div class="fieldset ui-widget ui-widget-content ui-corner-all">
14                         <div id="~_PropertyGrid"></div>
15                         <div class="clear"></div>
16                     </div>
17                 </form>
18             </div>
19         </div>
20         <div id="~_TabOrder" class="tab-pane s-TabOrder">
21             <div id="~_OrderGrid">
22             </div>
23         </div>
24     </div>
25
```

Order

OrderCity.cs: eum para las ciudades usada en ShipCity en OrderRow.

```
1  using Serenity.ComponentModel;
2  using System.ComponentModel;
3  namespace FinalPractice.SportDB
4  {
5      // enum of various City
6
7      [EnumKey("SportDB.City")]
8      5 references
9      public enum OrderCity
10     {
11         [Description("none")]
12         none = 1,
13         [Description("Santo Domingo")]
14         SantoDomingo = 2,
15         [Description("Santiago")]
16         Santiago = 3,
17         [Description("Azua")]
18         Azua = 4,
19         [Description("Samana")]
20         Samana = 5,
21         [Description("Higüey")]
22         Higüey = 6
23     }
24 }
```

OrderColumns.cs: Se agrego valores que no trajo la generación de código de sergen

```
2 namespace FinalPractice.SportDB.Columns
3 {
4     using Serenity;
5     using Serenity.ComponentModel;
6     using Serenity.Data;
7     using System;
8     using System.ComponentModel;
9     using System.Collections.Generic;
10    using System.IO;
11
12    [ColumnsScript("SportDB.Order")]
13    [BasedOnRow(typeof(Entities.OrderRow), CheckNames = true)]
14    public class OrderColumns
15    {
16        [EditLink, DisplayName("Db.Shared.RecordId"), AlignRight]
17        public Int32 OrderId { get; set; }
18        [EditLink, DisplayName("Full Name")]
19        public String CustomerFullname { get; set; }
20
21        //order status
22        public OrderStatus Status { get; set; }
23
24        //Order city
25        public OrderCity ShipCity { get; set; }
26        public DateTime ReleaseDate { get; set; }
27    }
28 }
```

OrderEndpoint.cs: extrae los datos de la Columnas de Order para Exportarlas a Excel.

```
48 // EndPoint Excel
49 public FileContentResult ListExcel(IDbConnection connection, ListRequest request)
50 {
51     var data = List(connection, request).Entities;
52     var report = new DynamicDataReport(data, request.IncludeColumns, typeof(Columns.OrderColumns));
53     var bytes = new ReportRepository().Render(report);
54     return ExcelContentResult.Create(bytes, "OrderList_" +
55         DateTime.Now.ToString("yyyyMMdd_HH:mm:ss") + ".xlsx");
56 }
57 }
58 }
59 }
```

OrderForm.cs: se agregó los atributos de category y la lista de productos de OrderDetail.

```

12
13 //Order Form
14
15 [FormScript("SportDB.Order")]
16 [BasedOnRow(typeof(Entities.OrderRow), CheckNames = true)]
17 0 references
18 public class OrderForm
19 {
20     [Category("Order")]
21     0 references
22     public Int32 CutormerId { get; set; }
23     0 references
24     public OrderStatus Status { get; set; }
25     0 references
26     public OrderCity ShipCity { get; set; }
27
28     // current date
29
30     [DefaultValue("now")]
31     0 references
32     public DateTime ReleaseDate { get; set; }
33
34     [Category("Order Details")]
35
36     //Product List Form
37
38     [OrderrDetailsEditor, NotMapped]
39     0 references
40     public List<Entities.OrderDetailsRow> ProductList { get; set; }
41 }

```

OrderGrid.ts: Implementación del botón para exportar las columnas a un documento de Excel.

```

16 //button Excel
17 protected getButtons() {
18     var buttons = super.getButtons();
19
20     buttons.push(Common.ExcelExportHelper.createToolButton({
21         grid: this,
22         service: OrderService.baseUrl + '/ListExcel',
23         onViewSubmit: () => this.onViewSubmit(),
24         separator: true
25     }));
26     return buttons;
27 }

```

OrderRepository.cs: se editó la función ListRequestHandler para que filtre si el usuario logueado no tiene permisos de admin solo muestre la orden del usuario.

```

44 private class MyListHandler : ListRequestHandler<MyRow> {
45     0 references
46     protected override void ApplyFilters(SqlQuery query)
47     {
48         base.ApplyFilters(query);
49         //user Logged in
50         var user = (UserDefinition)Authorization.UserDefinition;
51
52         //condition to know if you have general permissions if it does not show you your orders
53
54         if (!Authorization.HasPermission(PermissionKeys.General))
55             query.Where(fld.CutormerId == user.UserId);
56     }
57 }

```

OrderRow.cs: cambio de permisos de View solo podrán leer los detalles, declaración de valores que no trajo sergen.

```

16 //Permission Only read
17 [ReadPermission(PermissionKeys.Customer.View)]
18
19 [ModifyPermission("Administration.General")]

```

```

31 //Lookup Customer
32 [LookupEditor(typeof(CustomerRow))]
33 0 references
34 public Int32? CutormerId
35 {
36     get { return Fields.CutormerId[this]; }
37     set { Fields.CutormerId[this] = value; }
38 }
39 // Order Status (In Progress, In to deliver or Delivered)
40 [DisplayName("Status"), NotNull, DefaultValue(1), QuickFilter]
41 [Width(100)]
42 0 references
43 public OrderStatus? Status
44 {
45     get { return (OrderStatus?)Fields.Status[this]; }
46     set { Fields.Status[this] = (Int32?)value; }
47 }
48 // show cities (santo domingo, azua,...)
49 [Description("Ship City"), DefaultValue(1), QuickFilter]
50 [Width(120)]
51 0 references
52 public OrderCity? ShipCity
53 {
54     get { return (OrderCity?)Fields.ShipCity[this]; }
55     set { Fields.ShipCity[this] = (Int32?)value; }
56 }
57 [DisplayName("Order Date"), DefaultValue(1), QuickFilter]
58 0 references
59 public DateTime? ReleaseDate
60 {
61     get { return Fields.ReleaseDate[this]; }
62     set { Fields.ReleaseDate[this] = value; }
63 }

```

```

76 //Concat customer first name and last name
77 [DisplayName("Customer FullName")]
78 [Expression("(jCutormer.[Firstname] + ' ' + jCutormer.[Lastname])")]
79
80 0 references
81 public String CustomerFullname
82 {
83     get { return Fields.CustomerFullname[this]; }
84     set { Fields.CustomerFullname[this] = value; }
85 }
86
87 [DisplayName("Cutormer Gender"), Expression("jCutormer.[Gender]")]
88 0 references
89 public Int32? CutormerGender
90 {
91     get { return Fields.CutormerGender[this]; }
92     set { Fields.CutormerGender[this] = value; }
93 }
94
95 // list of products (use only in OrderForm)
96 [DisplayName("Product List"), NotMapped]
97 [MasterDetailRelation(foreignKey: "OrderId", IncludeColumns = "ProductName,LineTotal")]
98
99 0 references
100 public List<OrderDetailsRow> ProductList
101 {
102     get { return Fields.ProductList[this]; }
103     set { Fields.ProductList[this] = value; }
104 }

```

OrderStatus.cs: enum de los estados de la orden.

```

1 using Serenity.ComponentModel;
2 using System.ComponentModel;
3 namespace FinalPractice.SportDB
4 {
5     // enum of various status
6
7     [EnumKey("SportDB.Order")]
8     5 references
9     public enum OrderStatus
10     {
11         [Description("In Progress")]
12         InProgress = 1,
13         [Description("In To Deliver")]
14         InToDeliver = 2,
15         [Description("Delivered")]
16         delivered = 3
17     }
18 }

```

OrderDetails

OrderDetailsColumns.cs: columna que se muestra en el formulario de Order.


```

1
2 namespace FinalPractice.SportDB.Columns
3 {
4     using Serenity;
5     using Serenity.ComponentModel;
6     using Serenity.Data;
7     using System;
8     using System.ComponentModel;
9     using System.Collections.Generic;
10    using System.IO;
11
12    [ColumnsScript("SportDB.OrderDetails")]
13    [BasedOnRow(typeof(Entities.OrderDetailsRow), CheckNames = true)]
14    public class OrderDetailsColumns
15    {
16        //Column product list in the order
17        [EditLink,Width(100)]
18        public Int32 ProductName { get; set; }
19        public Double UnitPrice { get; set; }
20        public Int32 Quantity { get; set; }
21        public Double LineTotal { get; set; }
22    }
23 }

```

OrderDetailsForm.cs: seleccion de productos en el formulario de Order

```

1
2 namespace FinalPractice.SportDB.Forms
3 {
4     using Serenity;
5     using Serenity.ComponentModel;
6     using Serenity.Data;
7     using System;
8     using System.ComponentModel;
9     using System.Collections.Generic;
10    using System.IO;
11
12    [FormScript("SportDB.OrderDetails")]
13    [BasedOnRow(typeof(Entities.OrderDetailsRow), CheckNames = true)]
14    public class OrderDetailsForm
15    {
16        //product selection form, Product List in the Order
17        public Int32 ProductId { get; set; }
18        public Double UnitPrice { get; set; }
19        public Int32 Quantity { get; set; }
20    }
21 }

```

OrderDetailsRow.cs: Uso de lookup y declarando cosas que sergen no hizo.

```
32 [DisplayName("Product"), NotNull, ForeignKey("[spt].[Product]", "ProductId")]
33 [LeftJoin("jProduct"), TextualField("ProductTitle")]
34
35 //Lookup products
36 [LookupEditor(typeof(ProductRow))]
37 0 references
38 public Int32? ProductId
39 {
40     get { return Fields.ProductId[this]; }
41     set { Fields.ProductId[this] = value; }
42 }
43
44 [DisplayName("Quantity"), NotNull]
45 0 references
46 public Int32? Quantity
47 {
48     get { return Fields.Quantity[this]; }
49     set { Fields.Quantity[this] = value; }
50 }
51
52 [DisplayName("Unit Price"), NotNull]
53 0 references
54 public Double? UnitPrice
55 {
56     get { return Fields.UnitPrice[this]; }
57     set { Fields.UnitPrice[this] = value; }
58 }
59
60 //total product price * quantity
61 [DisplayName("Line Total")]
62 [Expression("(t0.UnitPrice * t0.Quantity)")]
63 0 references
64 public Double? LineTotal
65 {
66     get { return Fields.LineTotal[this]; }
67     set { Fields.LineTotal[this] = value; }
68 }
69
70 // Product Name
71 [DisplayName("Product Name")]
72 [Expression("jProduct.[Title]")]
73 0 references
74 public String ProductName
75 {
76     get { return Fields.ProductName[this]; }
77     set { Fields.ProductName[this] = value; }
78 }
```

OrderrDetailsEditDialog.ts: dialog que muestra en el formulario de Order y función para poner el valor del precio mediante un lookup.

```

1  /// <reference path="../../Common/Helpers/GridEditorDialog.ts" />
2
3
4  namespace FinalPractice.SportDB {
5
6      @Serenity.Decorators.registerClass()
7      export class OrderrDetailsEditDialog extends
8          Common.GridEditorDialog<OrderDetailsRow> {
9          protected getFormKey() { return OrderDetailsForm.formKey; }
10         protected getLocalTextPrefix() { return OrderDetailsRow.localTextPrefix; }
11         protected form: OrderDetailsForm;
12         constructor() {
13             super();
14             this.form = new OrderDetailsForm(this.idPrefix);
15
16             //set value to Price in the form product list
17             this.form.ProductId.changeSelect2(e => {
18                 var productId = Q.toId(this.form.ProductId.value);
19                 if (productId != null) {
20                     this.form.UnitPrice.value = ProductRow.getLookup().itemById[productId].Price;
21                 }
22             });
23         }
24     }
25 }
26

```

OrderrDetailsEditor.ts: grid para mostrar en el formulario de Order.

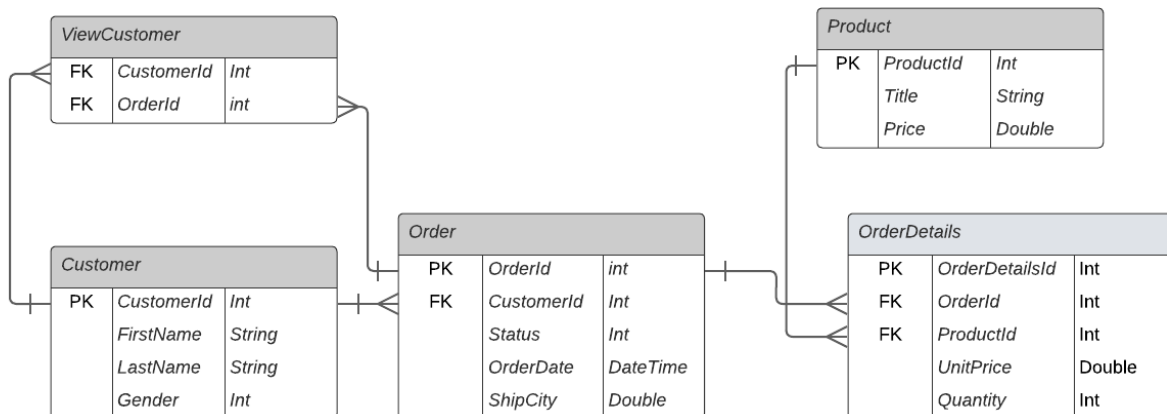
```

1  /// <reference path="../../Common/Helpers/GridEditorBase.ts" />
2
3
4  namespace FinalPractice.SportDB {
5
6      @Serenity.Decorators.registerEditor()
7      export class OrderrDetailsEditor
8      {
9          extends Common.GridEditorBase<OrderDetailsRow> {
10             protected getColumnsKey() { return "SportDB.OrderDetails"; }
11             protected getDialogType() { return OrderrDetailsEditDialog }
12             protected getLocalTextPrefix() { return OrderDetailsRow.localTextPrefix; }
13             constructor(container: JQuery) {
14                 super(container);
15             }
16             // add and rename button to add new products
17             protected getAddButtonCaption() {
18                 return "Add Product";
19             }
20
21             validateEntity(row, id) {
22                 row.ProductId = Q.toId(row.ProductId);
23
24                 // validation if the product is already there
25                 var sameProduct = Q.tryFirst(this.view.getItems(), x => x.ProductId === row.ProductId);
26                 if (sameProduct && this.id(sameProduct) !== id) {
27                     Q.alert('This product is already in order details!');
28                     return false;
29                 }
30                 //set value to product name using Lookup
31                 row.ProductName = ProductRow.getLookup().itemById[row.ProductId].Title;
32                 //set value to price total
33                 row.LineTotal = (row.Quantity || 0) * (row.UnitPrice || 0);
34                 Q.notifySuccess("it was executed correctly");
35                 return true;
36             }
37         }
38     }

```

Product

ProductRow.cs: se agrega el atributo lookup y a Price lookupInclude.



```

16 //lookup
17 [LookupScript("SportDB.Product")]
18 26 references
19 public sealed class ProductRow : Row, IIdRow, INameRow
20 {
21     [DisplayName("Product Id"), Identity]
22     0 references
23     public Int32? ProductId
24     {
25         get { return Fields.ProductId[this]; }
26         set { Fields.ProductId[this] = value; }
27     }
28     [DisplayName("Name"), Size(100), NotNull, QuickSearch]
29     0 references
30     public String Title
31     {
32         get { return Fields.Title[this]; }
33         set { Fields.Title[this] = value; }
34     }
35     // Lookup include to be able to use the price
36     [DisplayName("Price"), NotNull, LookupInclude]
37     0 references
38     public Double? Price
39     {
40         get { return Fields.Price[this]; }
41         set { Fields.Price[this] = value; }
42     }
43 }

```

Fuera de esas carpetas esta

SportDBNavigation.cs: orden e iconos que se usaran en el sideBar en la navigation.

```

1 using Serenity.Navigation;
2 using MyPages = FinalPractice.SportDB.Pages;
3
4 // order navigation in de SiteBar
5 [assembly: NavigationMenu(8000, "Sport Shop", icon: "fa-soccer-ball-o")]
6 [assembly: NavigationLink(8000, "Sport Shop/Product", typeof(MyPages.ProductController), icon: "fa-shopping-cart")]
7 [assembly: NavigationLink(8000, "Sport Shop/Customer", typeof(MyPages.CustomerController), icon: "fa-user")]
8 [assembly: NavigationLink(8000, "Sport Shop/Orders", typeof(MyPages.OrderController), icon: "fa-ticket")]
9

```

SportDBPermissionKeys.cs: se definen los permisos que se usan en los archivos.

```

1
2 using Serenity.Extensibility;
3 using System.ComponentModel;
4
5 namespace FinalPractice.SportDB
6 {
7     // permissions to be able to manipulate in Sport Shop
8     [NestedPermissionKeys]
9     [DisplayName("Default")]
10    public class PermissionKeys
11    {
12        [DisplayName("Customer")]
13        public class Customer
14        {
15            [ImplicitPermission(General), ImplicitPermission(View)]
16            public const string Delete = "Default:Customer:Delete";
17            [Description("Create/Update"), ImplicitPermission(General), ImplicitPermission(View)]
18            public const string Modify = "Default:Customer:Modify";
19            public const string View = "Default:Customer:View";
20        }
21
22        // permission general in Sport Shop
23        [Description("[General]")]
24        public const string General = "Default:General";
25    }
26 }
27

```

Relación de las tablas en la base de datos

