

Использование Dynamic Data на практике

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<http://www.devconf.ru>

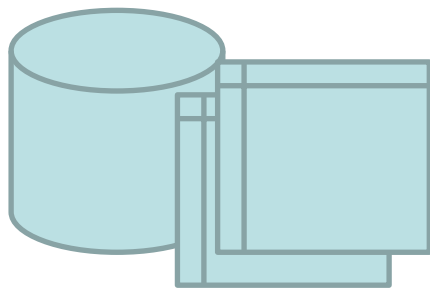
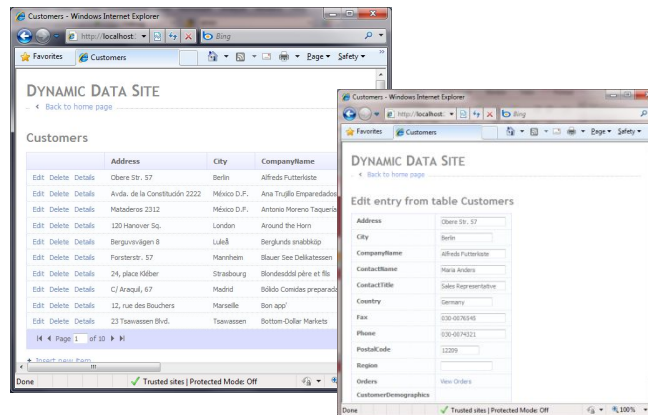
Сегодня в докладе...

- Поговорим... Что такое Dynamic Data?
- Посмотрим... Как оно выглядит?
- Подумаем... Подходит ли нам?

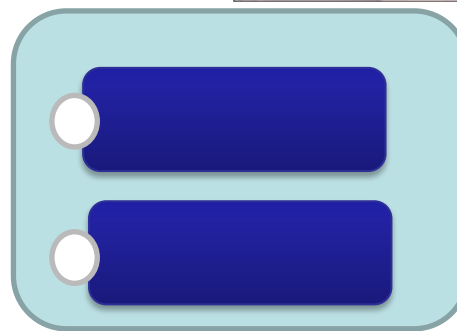
Что такое Dynamic Data?

- Оснастка для работы с данными
- Гибкая кастомизация
- Валидация данных
- Доступно в .NET FW 3.5 SP1 / 4.0

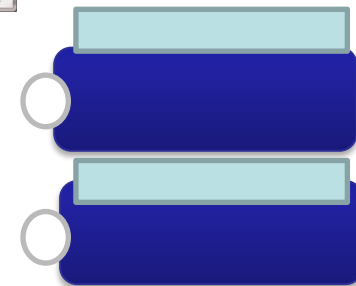
Архитектура Dynamic Data



Источник данных



Модель данных



Мета-данные

Три шага к Dynamic Data

- Определить модель данных
- Зарегистрировать модель
- Кастомизировать шаблоны

Возможности кастомизации

Шаблоны страниц (PageTemplates)

Шаблоны полей (FieldTemplates)

Типы данных (UIHint)

Страницы

DynamicField/DynamicControl

Посмотрим

Маршрутизация

```
routes.Add( new DynamicDataRoute("{table}/{action}.aspx")
{
Constraints= new RouteValueDictionary( new { action= "List|Details|Edit|Insert"
}),
Model= model
});
```

```
routes.Add(new DynamicDataRoute("{table}/ListDetails.aspx") {
Action= PageAction.List, ViewName= "ListDetails", Model= model});
```

```
routes.Add(new DynamicDataRoute("{table}/ListDetails.aspx"){
Action= PageAction.Details, ViewName= "ListDetails", Model= model});
```


Контролы и страницы

```
<asp:CalendarID="Calendar1" runat="server"  
SelectedDate="<%# (FieldValue!=null)? FieldValue:DateTime.Now%>"  
VisibleDate="<%# (FieldValue!=null)? FieldValue:DateTime.Now%>"  
</asp:Calendar>
```

Применение мета-данных

```
using System;
using System.ComponentModel.DataAnnotations;

[MetadataType(typeof(EmployeeMetadata))]
public partial class Employee
{
}

public class EmployeeMetadata
{
    [UIHint("DateTimeCalendar")]
    public object HireDate { get; set; }
}
```

Валидация

```
public class CustomerMetadata{  
    [Required()]  
    public object Title;  
}
```

```
public partial class Customer {  
  
    partial void OnTitleChanging(string value) {  
        if(!Char.IsUpper(value[0])) {throw new ValidationException("!!!"); }  
    }  
}
```

Валидация

```
public partial class Employee{
    partial void OnValidate(System.Data.Linq.ChangeAction action){
        if(action== System.Data.Linq.ChangeAction.Insert)) {
            if(this._BirthDate.Value.CompeTo(DateTime.Now)>0)
                throw new ValidationException("!!!");
        }
    }
}
```

Возможности

- Независимость от слоя данных
 - LINQ2SQL, Entity Framework, ADO.NET Data Services
- Правила валидации
 - Атрибуты полей на уровне модели
- Ограничение доступа
 - На уровне web.config / на уровне страницы

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Оно нам надо?

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Частые простые изменения схемы	ДА
«Описательные данные»	ДА
Сложный интерфейс редактирования	НЕТ
Данные со сложными логическими связями	НЕТ

Где узнать больше?

Официальные сайты

- <http://www.asp.net/dynamicdata>
- <http://www.codeplex.com/aspnet>

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Блоги

- <http://blogs.msdn.com/davidebb/>
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