

简单之美

--实战ASP.NET 2.0

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新特性一览

控件

Data
Controls

Login
Controls

Web Parts

Other New
Controls

页面 框架

主控页

Themes
and Skins

Mobility and
Localization

Compilation

服务 及 APIs

Membership

Role
Management

Profiles

Configuration

Site
Maps

Health
Monitoring

Other
Services

数据访问新特性

- Data source 控件
 - 声明双向数据绑定
- 数据控件
 - GridView – 类似于 DataGrid, 但更好用
 - DetailsView – 与 GridView 结合使用
- SQL cache dependencies
 - Key cached items to database entities
- Simplified data binding expressions

ASP.NET 1.x 数据绑定

```
<asp:DataGrid ID="MyDataGrid" RunAt="server" />
...
<script language="C#" runat="server">
void Page_Load (Object sender, EventArgs e)
{
    SqlConnection connection = new SqlConnection
        ("server=localhost; database=pubs; integrated security=true");
    try {
        connection.Open ();
        SqlCommand command = new SqlCommand
            ("select title_id, titles, price from titles");
        MyDataGrid.DataSource = command.ExecuteReader ();
        MyDataGrid.DataBind ();
    }
    finally {
        connection.Close ();
    }
}
</script>
```

ASP.NET 2.0 数据绑定

```
<asp:SqlDataSource ID="Titles" RunAt="server"
    ConnectionString="server=localhost;database=pubs;integrated security=true"
    SelectCommand="select title_id, title, price from titles" />
<asp:DataGrid DataSourceID="Titles" RunAt="server" />
```

声明数据绑定

Demo

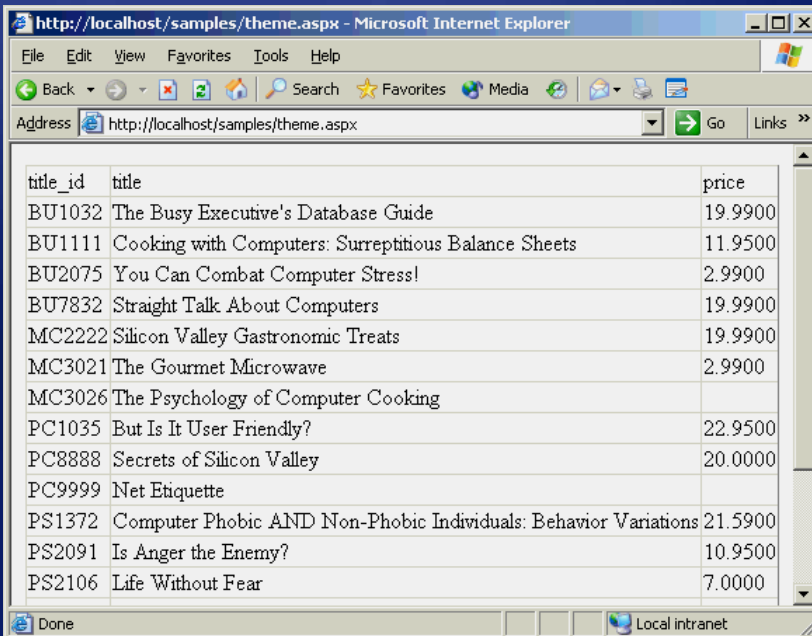
UI新特性

- 主控页
 - “Visual inheritance” for Web pages
 - Applied declaratively or programmatically
- 主题及外观
 - Theme controls, pages, and entire sites
 - Applied declaratively or programmatically
- 新增控件（超过50个）
 - Menus, TreeViews, Wizards, 等等

为页面添加主题

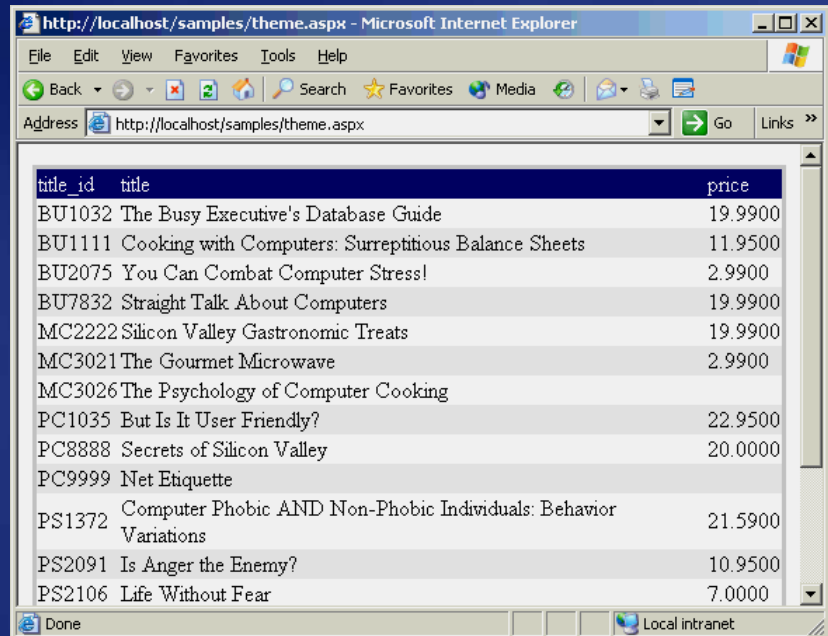
```
<%@ Page Theme="Basi cBl ue">
```

Before



title_id	title	price
BU1032	The Busy Executive's Database Guide	19.9900
BU1111	Cooking with Computers: Surreptitious Balance Sheets	11.9500
BU2075	You Can Combat Computer Stress!	2.9900
BU7832	Straight Talk About Computers	19.9900
MC2222	Silicon Valley Gastronomic Treats	19.9900
MC3021	The Gourmet Microwave	2.9900
MC3026	The Psychology of Computer Cooking	
PC1035	But Is It User Friendly?	22.9500
PC8888	Secrets of Silicon Valley	20.0000
PC9999	Net Etiquette	
PS1372	Computer Phobic AND Non-Phobic Individuals: Behavior Variations	21.5900
PS2091	Is Anger the Enemy?	10.9500
PS2106	Life Without Fear	7.0000

After



title_id	title	price
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PC9999	Net Etiquette	
PS1372	Computer Phobic AND Non-Phobic Individuals: Behavior Variations	21.5900
PS2091	Is Anger the Enemy?	10.9500
PS2106	Life Without Fear	7.0000

主控页

Demo

安全新特性

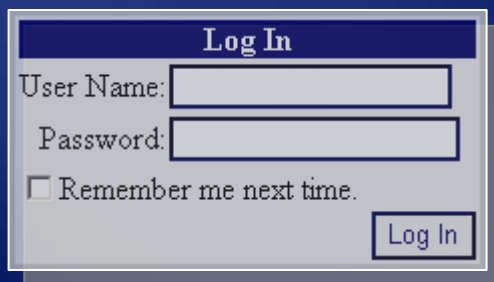
- 成员资格服务
 - 管理用户及凭证的服务
 - 基于提供模式的可扩展模型
- 登录控件
 - 登录, 创建用户, 找回密码等等
- 角色管理服务
 - 验证及基于角色授权的组合, 无须编写代码

登录验证

```
if (Membership.ValidateUser (UserName.Text, Password.Text))  
    RedirectFromLoginPage (UserName.Text, RememberMe.Checked);
```

登录控件

```
<html >
  <body>
    <form runat="server">
      <asp:Login RunAt="server" />
    </form>
  </body>
</html >
```



The image shows a screenshot of a web browser displaying the rendered output of the ASP.NET Login control. The control has a title bar that says "Log In". Below the title bar, there are two text boxes: "User Name:" and "Password:". Below the "Password:" text box, there is a checkbox labeled "Remember me next time.". At the bottom right of the control, there is a button labeled "Log In".

成员资格及登录

Demo

用户信息

- 持久稳固的存储每位用户的信息
 - 强类型访问方式
 - 按需查找
 - 生命周期更长
 - 支持已登录用户及匿名用户
- 通过由 `HttpProfileBase` 派生出的 `HttpProfile` 进行访问
- Provider-based for flexible data storage

定义用户信息

```
<configuration>
  <system.web>
    <profile>
      <properties>
        <add name="ScreenName" />
        <add name="Posts" type="System.Int32" defaultValue="0" />
        <add name="LastPost" type="System.DateTime" />
      </properties>
    </profile>
  </system.web>
</configuration>
```

使用用户信息

```
// Increment the current user's post count  
Profile.Posts = Profile.Posts + 1;
```

```
// Update the current user's last post date  
Profile.LastPost = DateTime.Now;
```


用户信息

Demo

站点导航

- 实现站点导航功能非常乏味
 - 特别是它们需要依靠客户端代码
- 新控件简化了此项操作
 - TreeView及Menu – 导航界面
 - SiteMapDataSource – XML site maps
 - SiteMapPath – “面包屑” control
- 公开的API提供了定制化的支持
- Provider-based for flexibility

数据驱动的站点导航功能

Demo

提供模式

- 存储及管理状态的新模型
 - 使存储可以适应不同的媒体类型
- 很多关键ASP.NET服务使用
 - 成员资格服务
 - 角色管理服务等
- 内建的提供模式使ASP.NET的状态存储易于扩展
- 定制的提供模式可以无限扩展

提供模式

Controls

Login

LoginStatus

LoginView

Other Login
Controls

Membership API

Membership

MembershipUser

Membership Providers

SqlMembershipProvider

Other Membership
Providers

Membership Data

SQL Server

Other
Data Stores

配置

- 管理工具
 - ASP.NET MMC 插件
 - 网络站点管理工具(Webadmin.aspx)
- 配置 API
 - 读取/设置配置项
 - 易于使用的自定义配置
- 测量工具
 - 性能计数器, 其它监视工具

站点管理工具

Demo

Web 部件

- 构建门户样式应用的框架
 - 在SharePoint Portal Server中定型
 - `System.Web.UI.WebControls.WebParts`
- 丰富的界面, 更少的代码
 - 通过拖拽更改布局
 - 更改外观及行为及更多
- 实现个性化
- 双向通讯 (“connections”)

Web 部件

Demo

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您的潜力，我们的动力