

# Trabalho Prático 1 – 1ª Parte

Engenharia de Dados e do Conhecimento

# Motivação

- Programação do lado do servidor e do lado do cliente (2ª parte)
- Revisão da utilização de base de dados relacional
- Familiarização com as ferramentas de trabalho
  - Visual Studio
  - SQL Server

# Objetivo

- Desenvolvimento de uma aplicação web
  - Desenvolvimento de um site web com gestão de utilizadores
  - Integração de uma base de dados SQL

1ª Parte – 2 aulas

- Integração de dados remotos – aplicação cliente
  - Integração de dados em formato JSON

2ª Parte – 1 aula

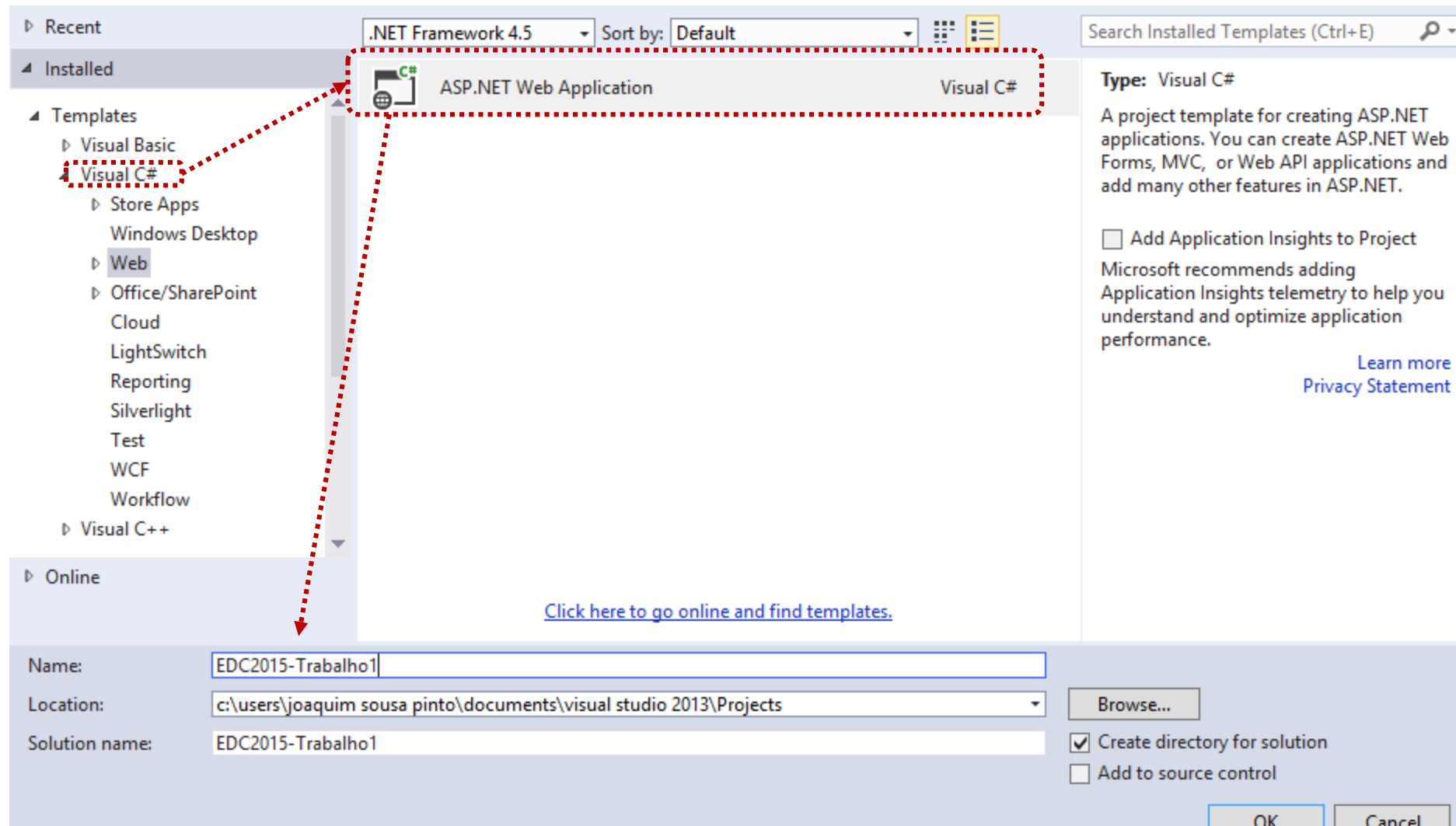
- Base de dados a utilizar nos dois casos:
  - Pubs.mdb da Microsoft

# Programação do lado do servidor

# Tarefas


- Criar uma aplicação web em VisualStudio
- Instalar novos componentes
- Alterar o design da aplicação


# Criação da aplicação web





# Criação da aplicação web


Select a template:


  
Empty


  
Web Forms

  
MVC

  
Web API

  
Single Page Application

  
Azure API App (Preview)

  
Azure Mobile Service

Add folders and core references for:

☒ Web Forms ☐ MVC ☐ Web API

☐ Add unit tests


Test project name:


A project template for creating ASP.NET Web Forms applications. ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model. A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful UI-driven sites with data access.

[Learn more](#)

[Change Authentication](#)

Authentication: **Individual User Accounts**

 **Microsoft Azure**

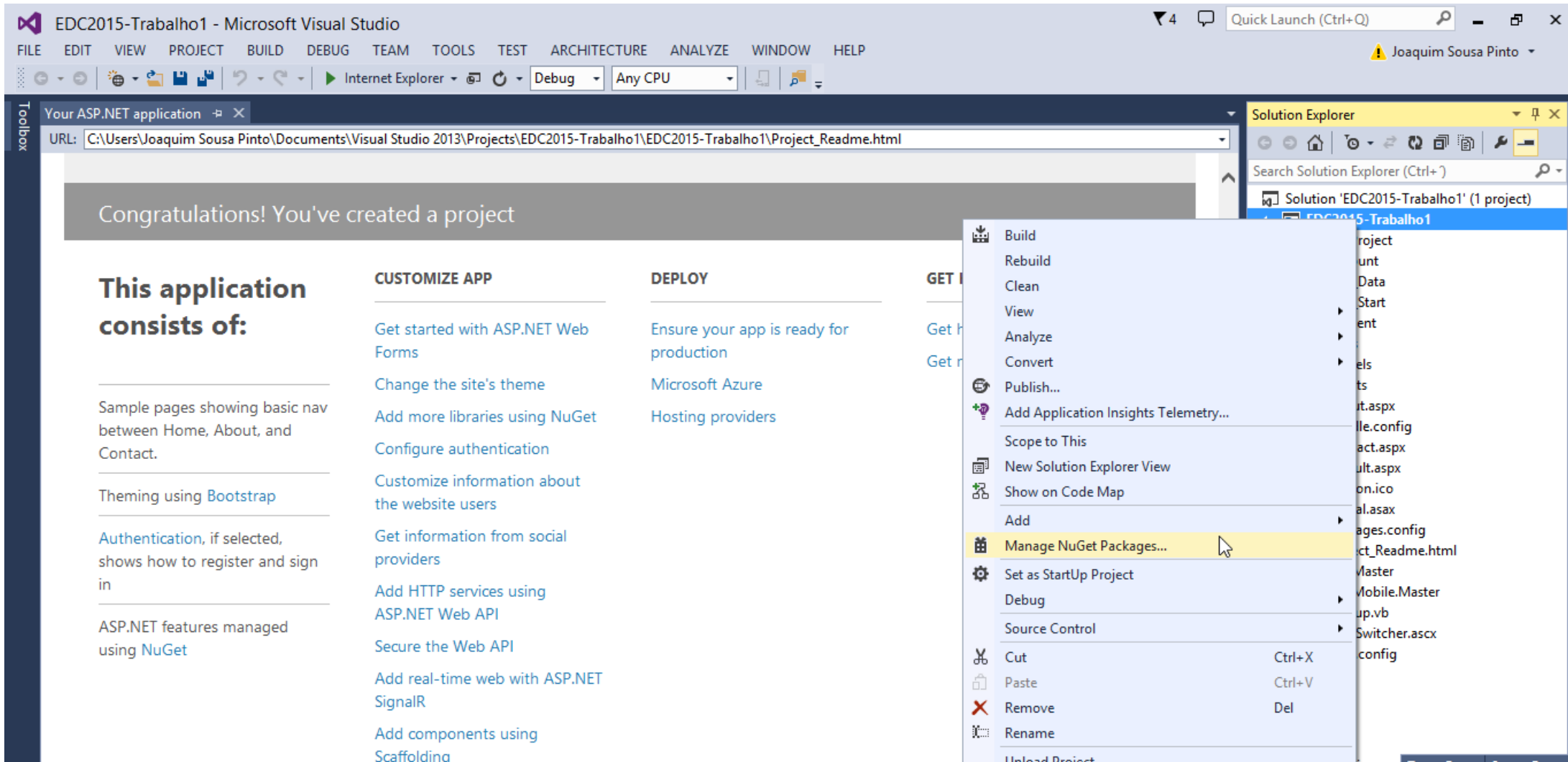
 ☐ Host in the cloud

Web App

[Manage Subscriptions](#)

OK Cancel

# Atualização do projeto





# Atualização do projeto

The screenshot displays the NuGet Package Manager interface. On the left, a sidebar shows the navigation menu with 'Updates' selected and highlighted by a red dashed box. Below the sidebar, a message states: 'Each package is licensed to you by its owner. Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.'

The main area shows a list of packages with updates available. At the top, there are filters for 'Stable Only' and 'Sort by: Most Downloads'. A red dashed box highlights the 'Update All' button, with a red arrow pointing to it from the 'Updates' section in the sidebar. Below this, a list of packages is shown, each with an icon, name, description, and an 'Update' button. The packages listed are:

- Json.NET**: Json.NET is a popular high-performance JSON framework for .NET
- jQuery**: jQuery is a new kind of JavaScript Library. jQuery is a fast and concise JavaScript Library that simplifies...
- WebGrease**: Web Grease is a suite of tools for optimizing javascript, css files and images.
- Modernizr**: Modernizr is a small and simple JavaScript library that helps you take advantage of emerging web technologies (CSS3, HT...
- ANTLRv3**: ANOther Tool for Language Recognition, is a language tool that provides a framework for constructing recognizers, inter...
- Bootstrap CSS**: Bootstrap framework in CSS. Includes fonts and JavaScript
- Respond JS**: A fast & lightweight polyfill for min/max-width CSS3 Media Queries (for IE 6-8, and more)

On the right side, there is a detailed view for the selected package, 'Json.NET'. It includes the following information:

- Created by:** James Newton-King
- Id:** [Newtonsoft.Json](#)
- Version:** 7.0.1
- Installed version:** 6.0.4
- Last Published:** 22-Jun-15
- Downloads:** 17388768
- License:** [View License](#), [Project Information](#), [Report Abuse](#)
- Description:** Json.NET is a popular high-performance JSON framework for .NET
- Tags:** json
- Dependencies:** No Dependencies

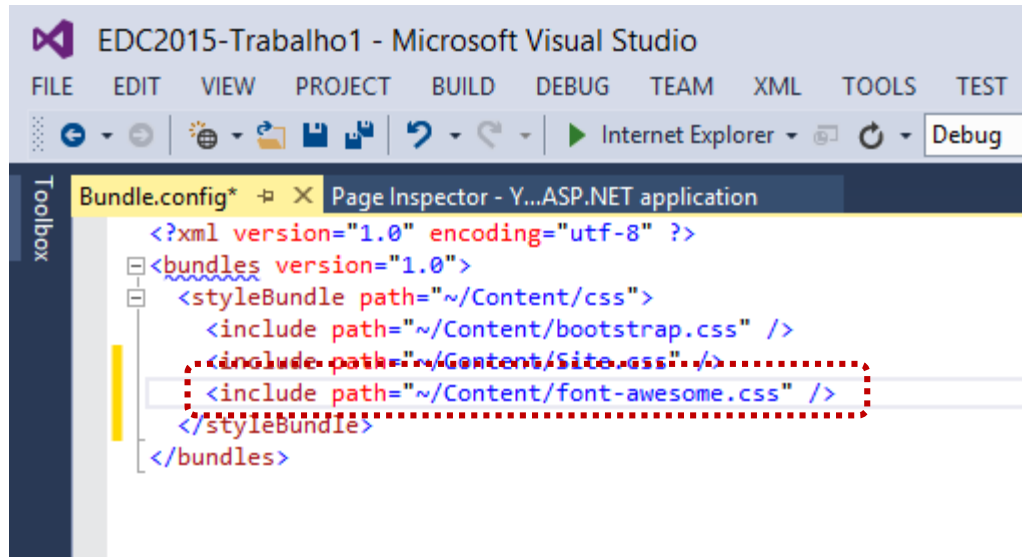
# Instalação de novos packages

Exemplo: font awesome (<http://fontawesome.github.io/Font-Awesome/icons/>)

The screenshot displays the NuGet Package Manager interface. On the left, the 'Online' tab is selected under the 'Installed packages' section. The search bar at the top right contains the text 'awesome'. The search results list several packages, with 'FontAwesome' (version 4.4.0) highlighted at the top. A red dashed box highlights the search bar and the 'FontAwesome' package entry. The details for the 'FontAwesome' package are shown on the right, including its description, version, and license. The package is created by Dave Gandy and has 402,989 downloads. The license is MIT. The description states it is an iconic font designed for use with Twitter Bootstrap. The tags include 'FontAwesome', 'FontAwesome Font', 'Awesome Iconic', and 'Twitter Bootstrap'. There are no dependencies listed.

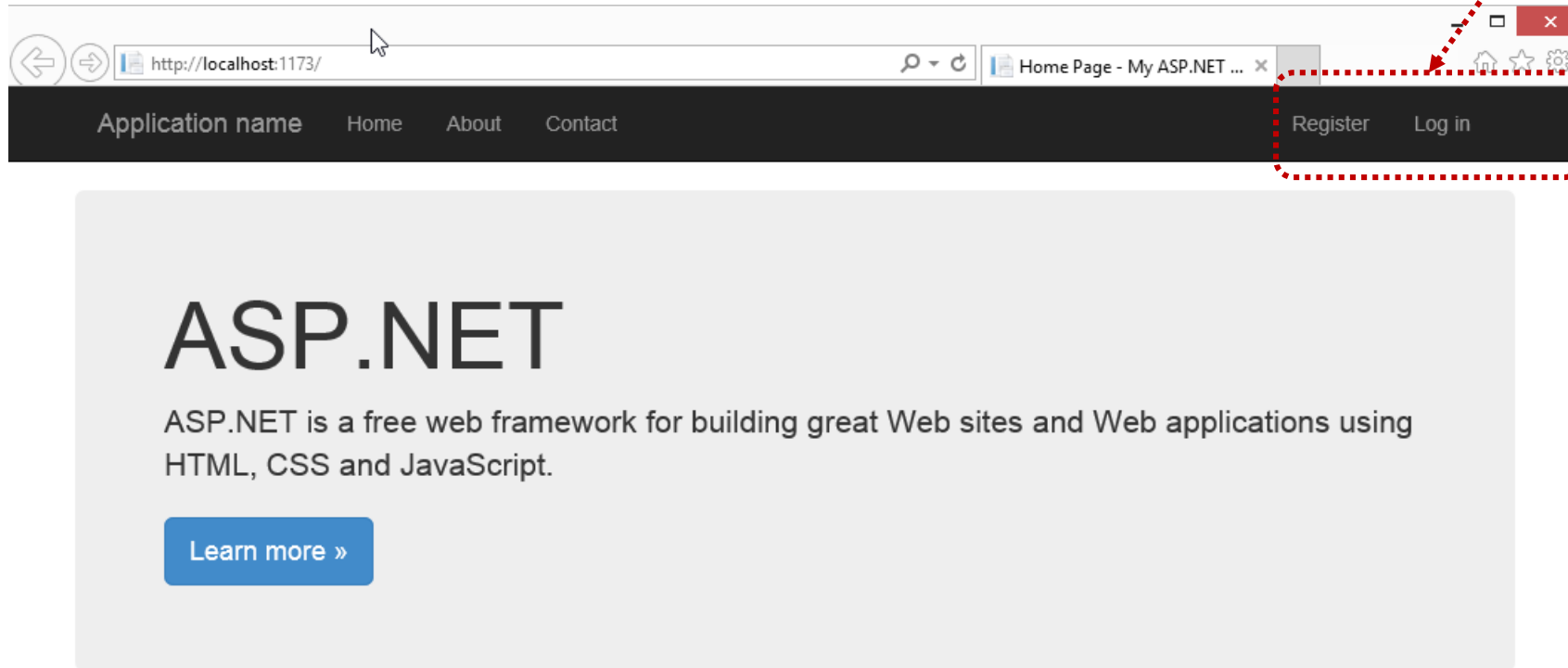
Each package is licensed to you by its owner. Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.

# Incluir a nova fonte no projeto existente



Gestão de utilizadores ...

# A aplicação web a funcionar...



## Getting Started

ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model. A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful UI-driven sites with data access.

## Get more libraries

NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Studio projects.

[Learn more »](#)

## Web Hosting

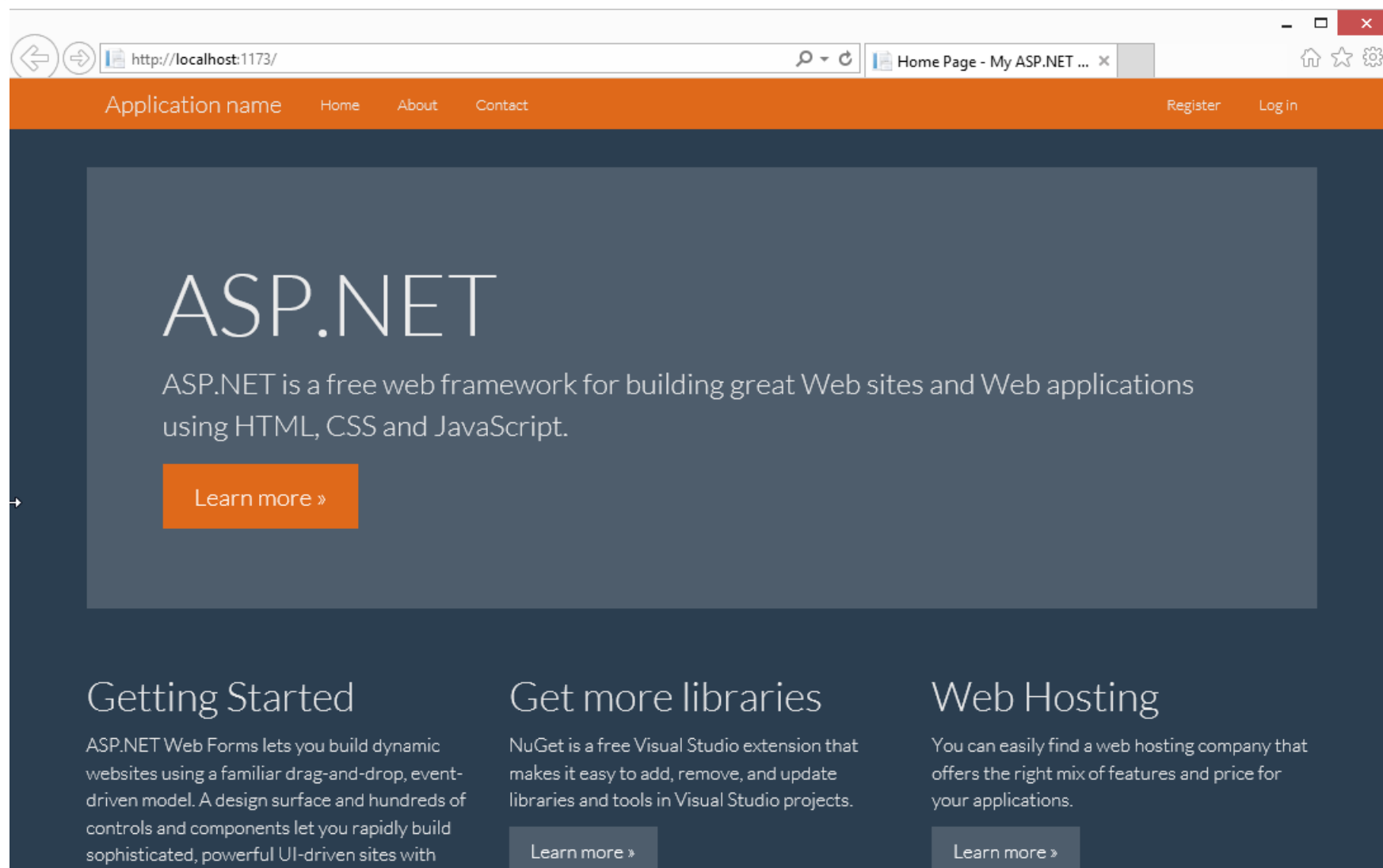
You can easily find a web hosting company that offers the right mix of features and price for your applications.

[Learn more »](#)

# Alteração do design

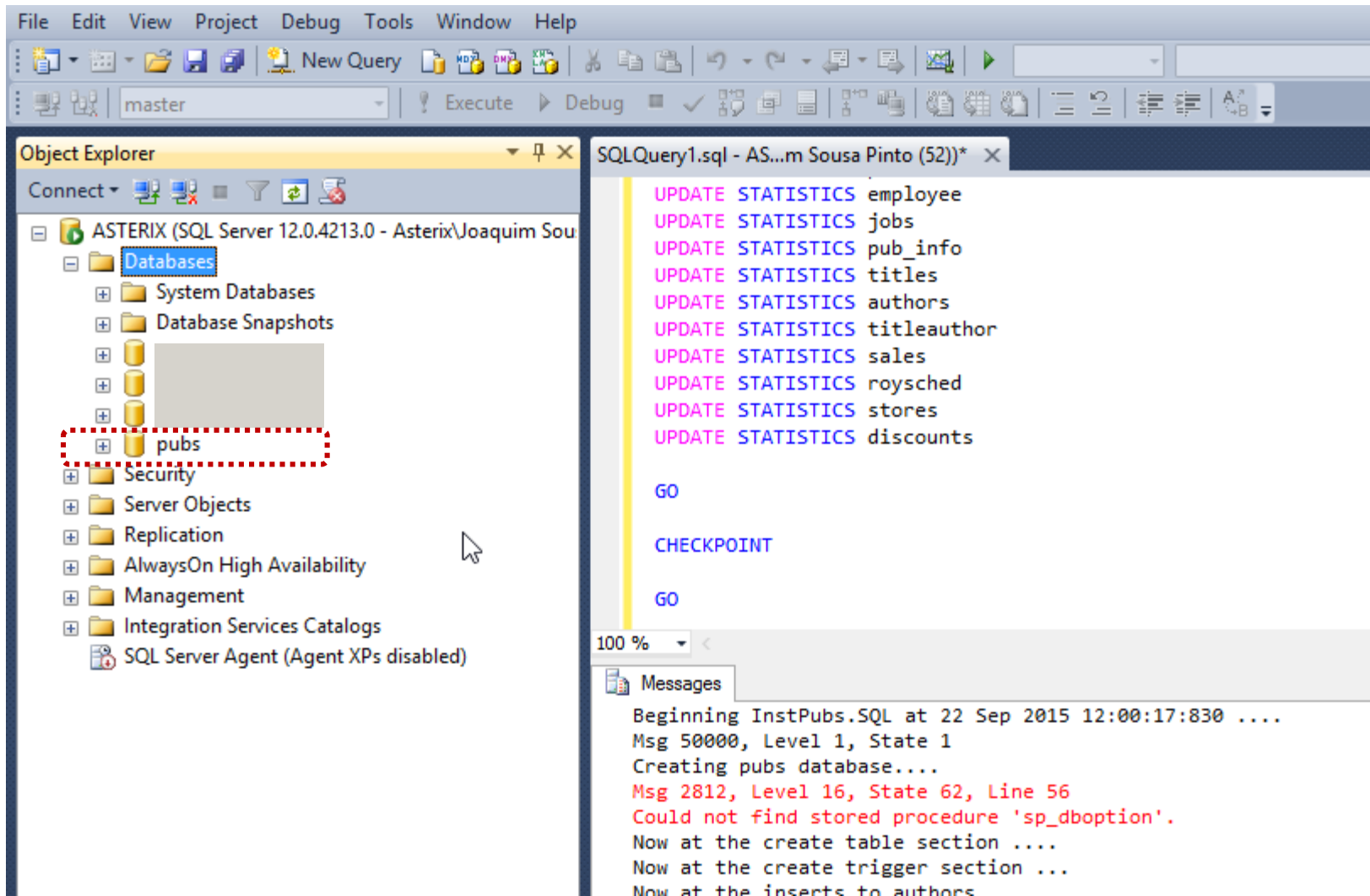
Bootstrap (<http://getbootstrap.com/>) | Bootstrap free themes (<http://bootswatch.com/>)

Aplique um dos temas apresentados



# Criação da base de dados pubs

Instale a base de dados “pubs”



The screenshot displays the SQL Server Enterprise Manager interface. In the Object Explorer on the left, the 'pubs' database is highlighted under the 'Databases' folder. The SQL Query window on the right shows the execution of a script named 'SQLQuery1.sql'. The script contains the following commands:

```
UPDATE STATISTICS employee
UPDATE STATISTICS jobs
UPDATE STATISTICS pub_info
UPDATE STATISTICS titles
UPDATE STATISTICS authors
UPDATE STATISTICS titleauthor
UPDATE STATISTICS sales
UPDATE STATISTICS roysched
UPDATE STATISTICS stores
UPDATE STATISTICS discounts

GO

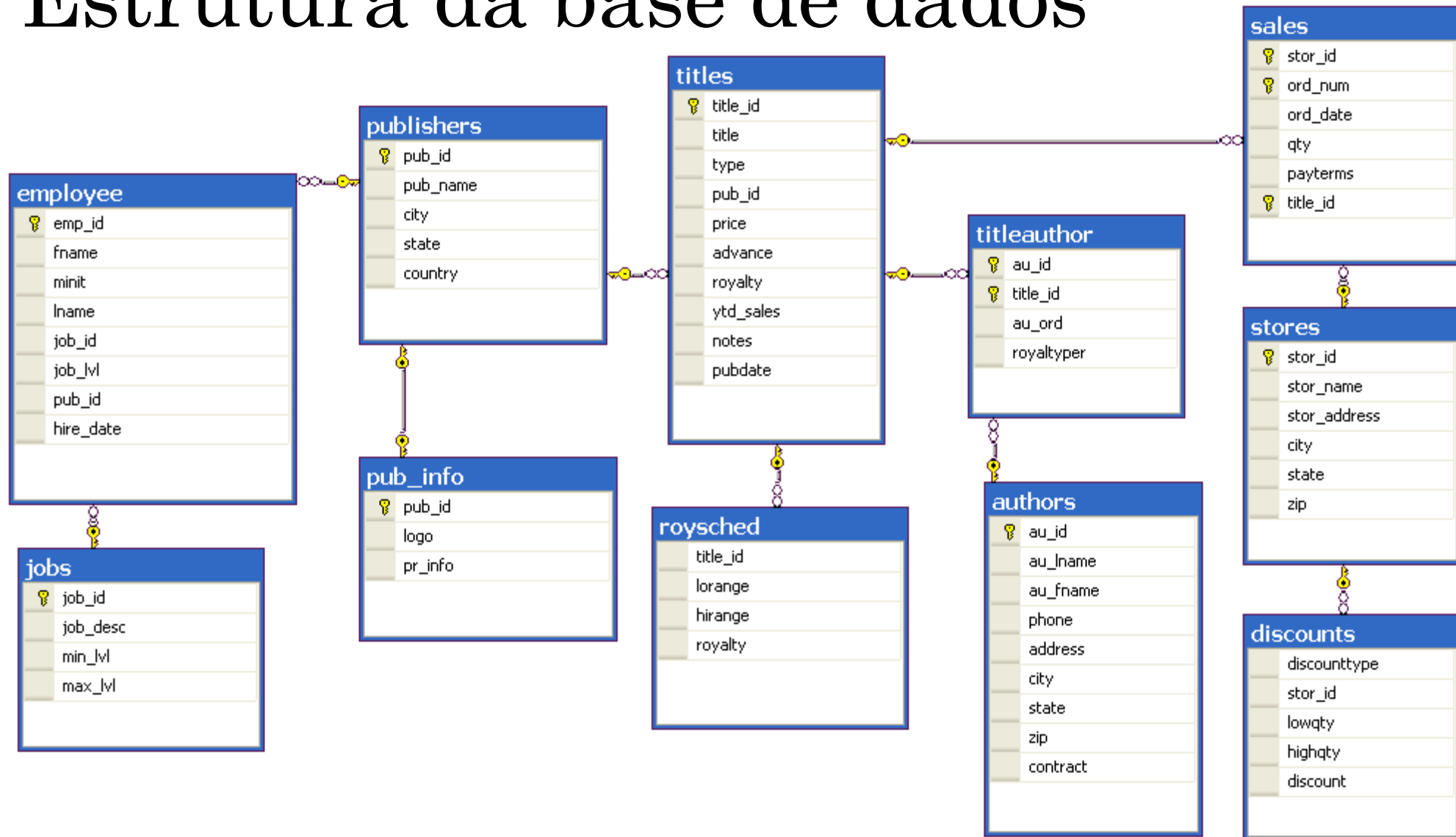
CHECKPOINT

GO
```

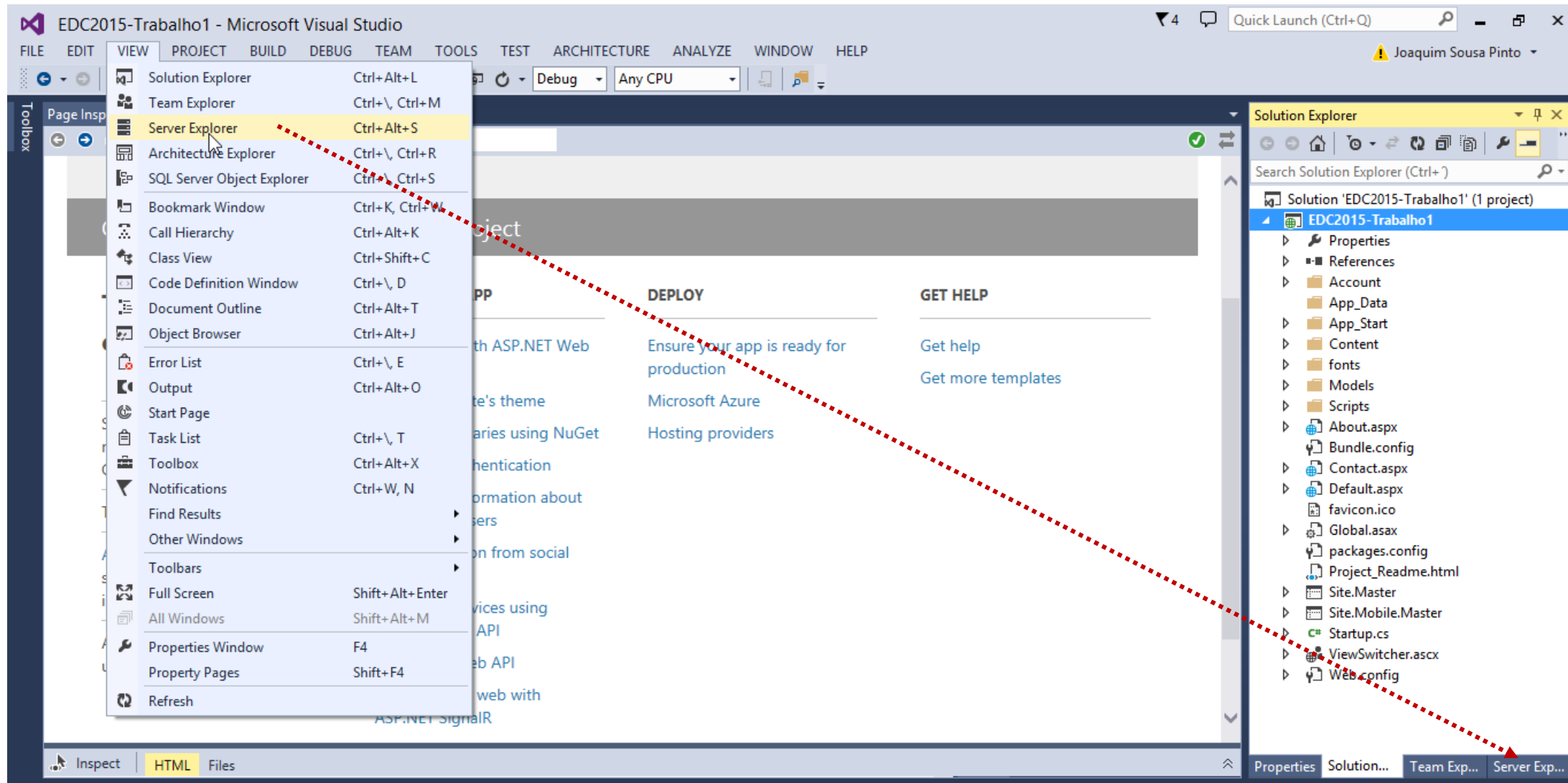
The Messages window at the bottom shows the output of the script execution:

```
Beginning InstPubs.SQL at 22 Sep 2015 12:00:17:830 ....
Msg 50000, Level 1, State 1
Creating pubs database....
Msg 2812, Level 16, State 62, Line 56
Could not find stored procedure 'sp_dboption'.
Now at the create table section ....
Now at the create trigger section ...
Now at the inserts to authors
```

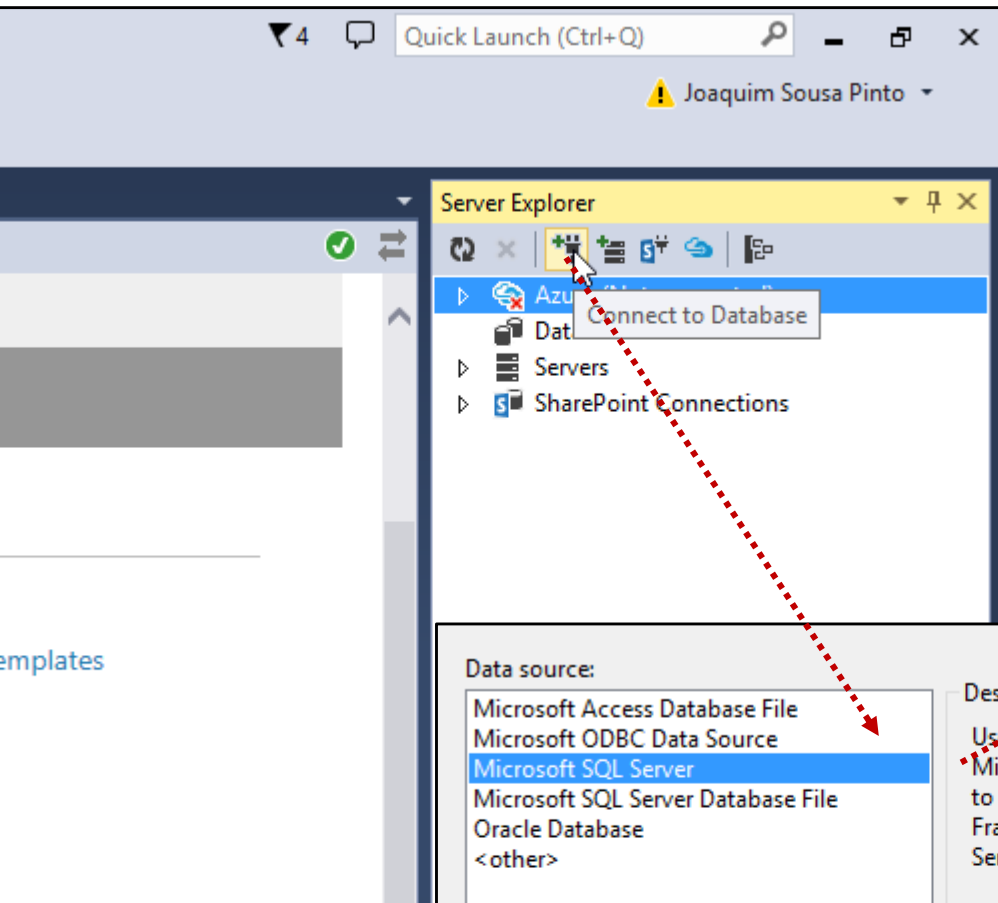
# Estrutura da base de dados



# Integração da base de dados no projeto







**Data source:**

- Microsoft Access Database File
- Microsoft ODBC Data Source
- Microsoft SQL Server**
- Microsoft SQL Server Database File
- Oracle Database
- <other>

**Data provider:**

.NET Framework Data Provider for SQL S

☒ Always use this selection

**Description:**

Use this selection to connect to Microsoft SQL Server 2005 or above, or to Microsoft SQL Azure using the .NET Framework Data Provider for SQL Server.

**Buttons:** Continue, Cancel

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

**Data source:**

Microsoft SQL Server (SqlClient) **Change...**

**Server name:**

localhost **Refresh**

**Log on to the server**

☒ Use Windows Authentication

☐ Use SQL Server Authentication

User name:

Password:

☐ Save my password

**Connect to a database**

☒ Select or enter a database name:

pubs

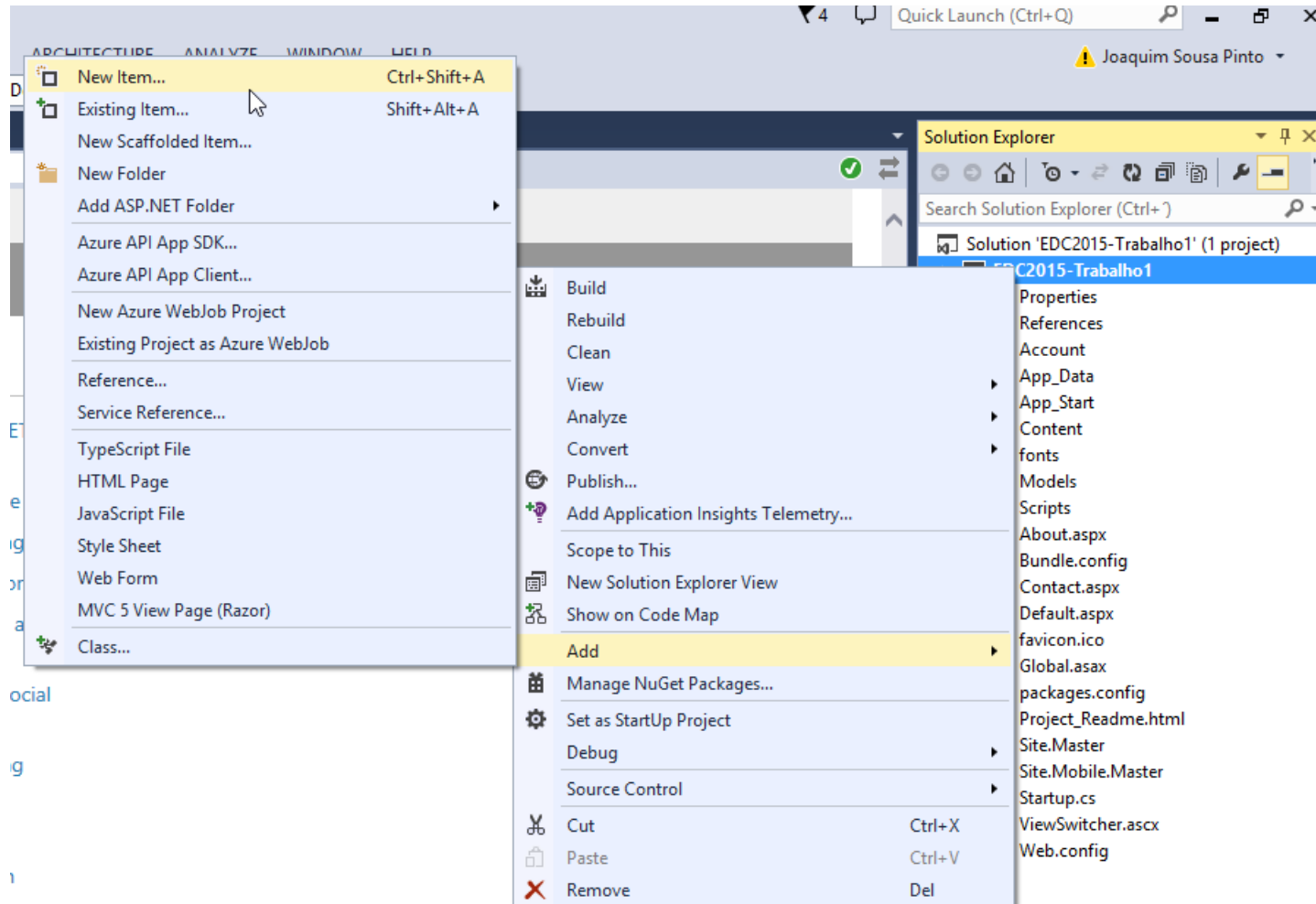
☐ Attach a database file:

**Browse...**

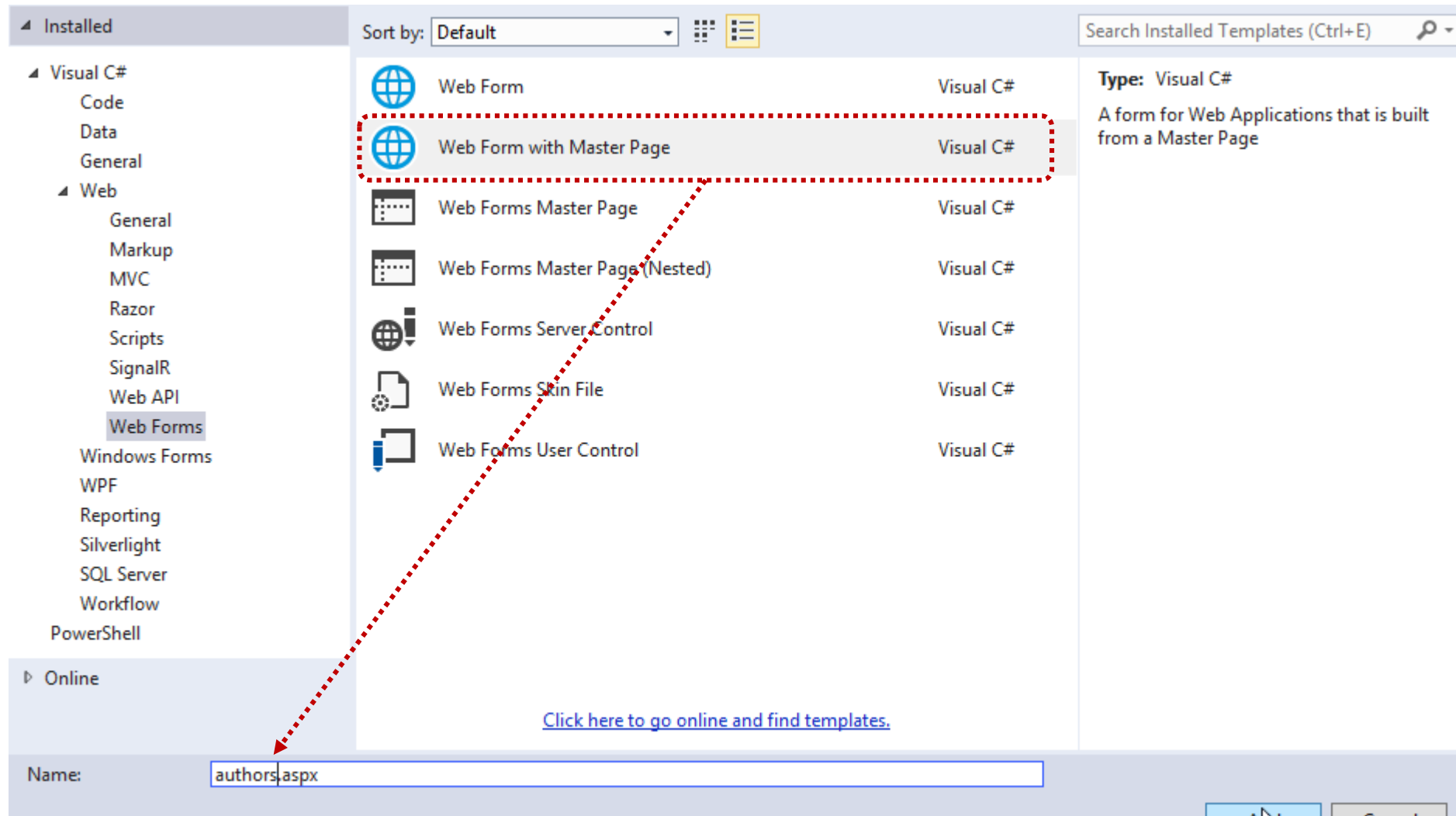
Logical name:

**Buttons:** Test Connection, OK, Cancel, Advanced...

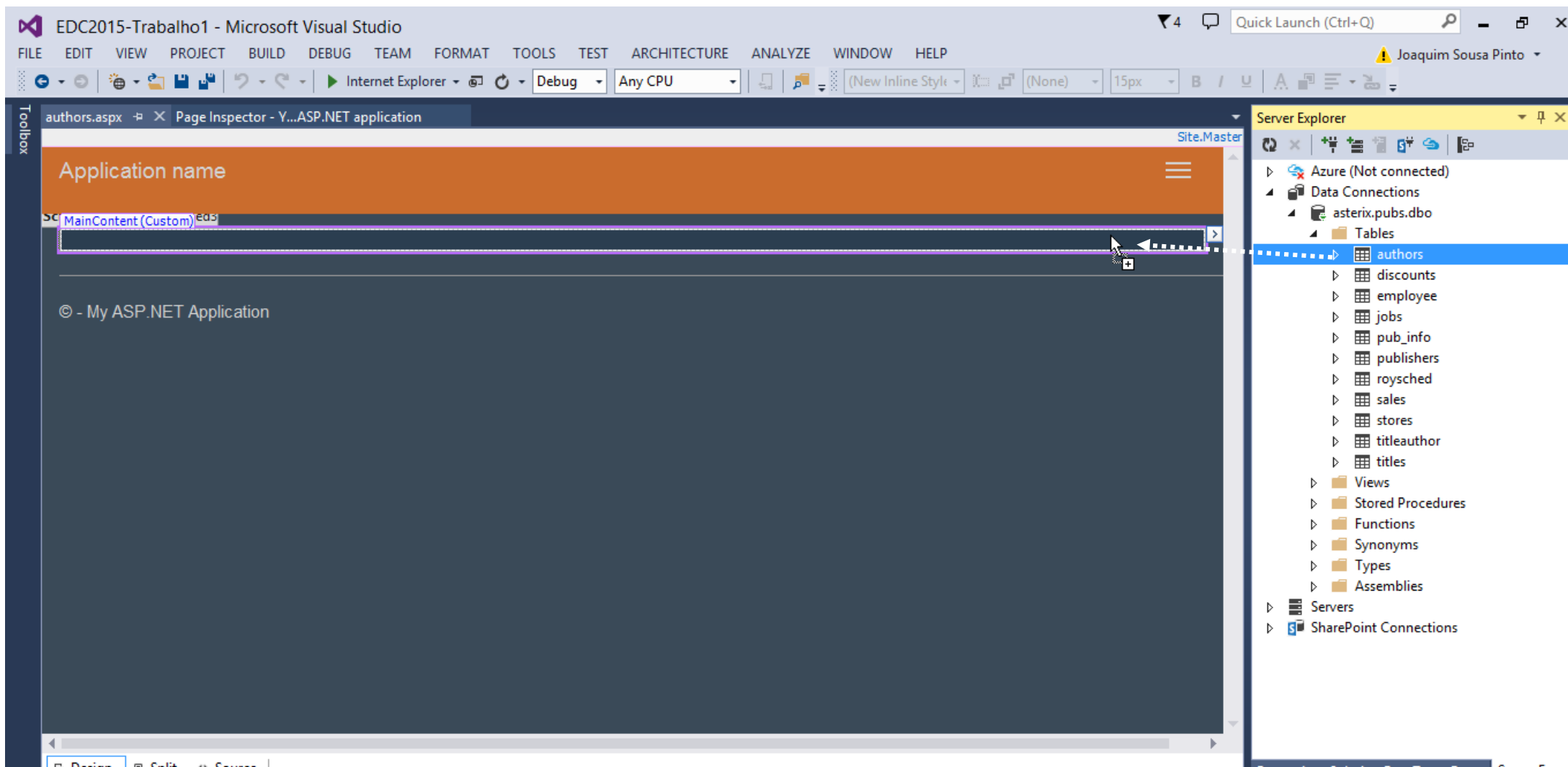
# Criação da página authors.aspx



# Criação da página authors.aspx



# Inserção dos dados na página



# Configuração da tabela

The screenshot shows the Microsoft Visual Studio IDE with the following components:

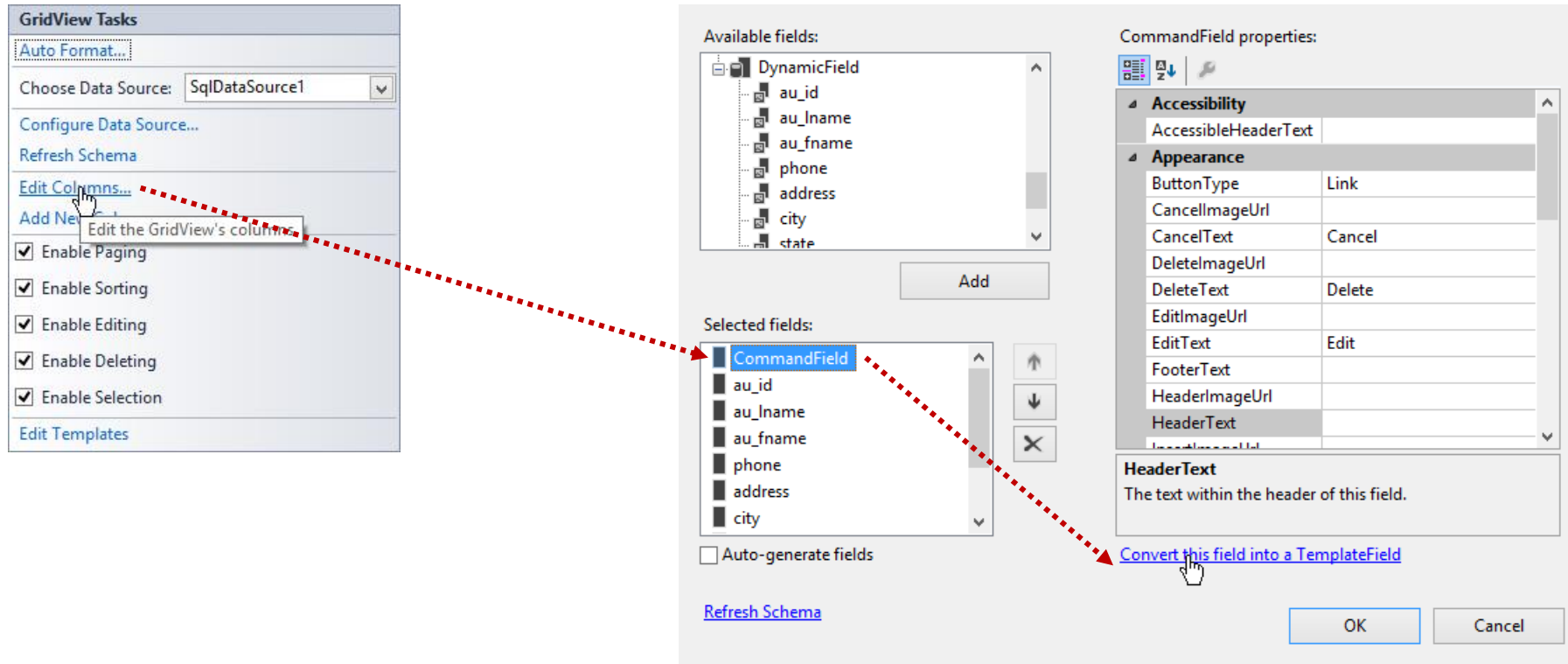
- Top Menu Bar:** FILE, EDIT, VIEW, PROJECT, BUILD, DEBUG, TEAM, FORMAT, TABLE, TOOLS, TEST, ARCHITECTURE, ANALYZE, WINDOW, HELP.
- Toolbar:** Includes buttons for navigation, execution, and debugging. The status bar shows 'Internet Explorer', 'Debug', and 'Any CPU'.
- Toolbox:** Located on the left, showing the 'MainContent (Custom)' control.
- Web Application:** The main content area shows a table with columns: au\_id, au\_lname, au\_fname, phone, address, city, state, zip, and contract. The table is populated with sample data.
- GridView Tasks Context Menu:** A red arrow points to the context menu, which includes the following options:
  - Auto Format...
  - Choose Data Source:
  - Configure Data Source...
  - Refresh Schema
  - Edit Columns...
  - Add New Column...
  - ☒ Enable Paging
  - ☒ Enable Sorting
  - ☒ Enable Editing
  - ☒ Enable Deleting
  - ☒ **Enable Selection**
  - Edit Templates
- Server Explorer:** Located on the right, showing a data connection named 'pubsConnectionString1 (EDC2015-Trab)' under the 'Data Connections' folder.

# Configuração da tabela

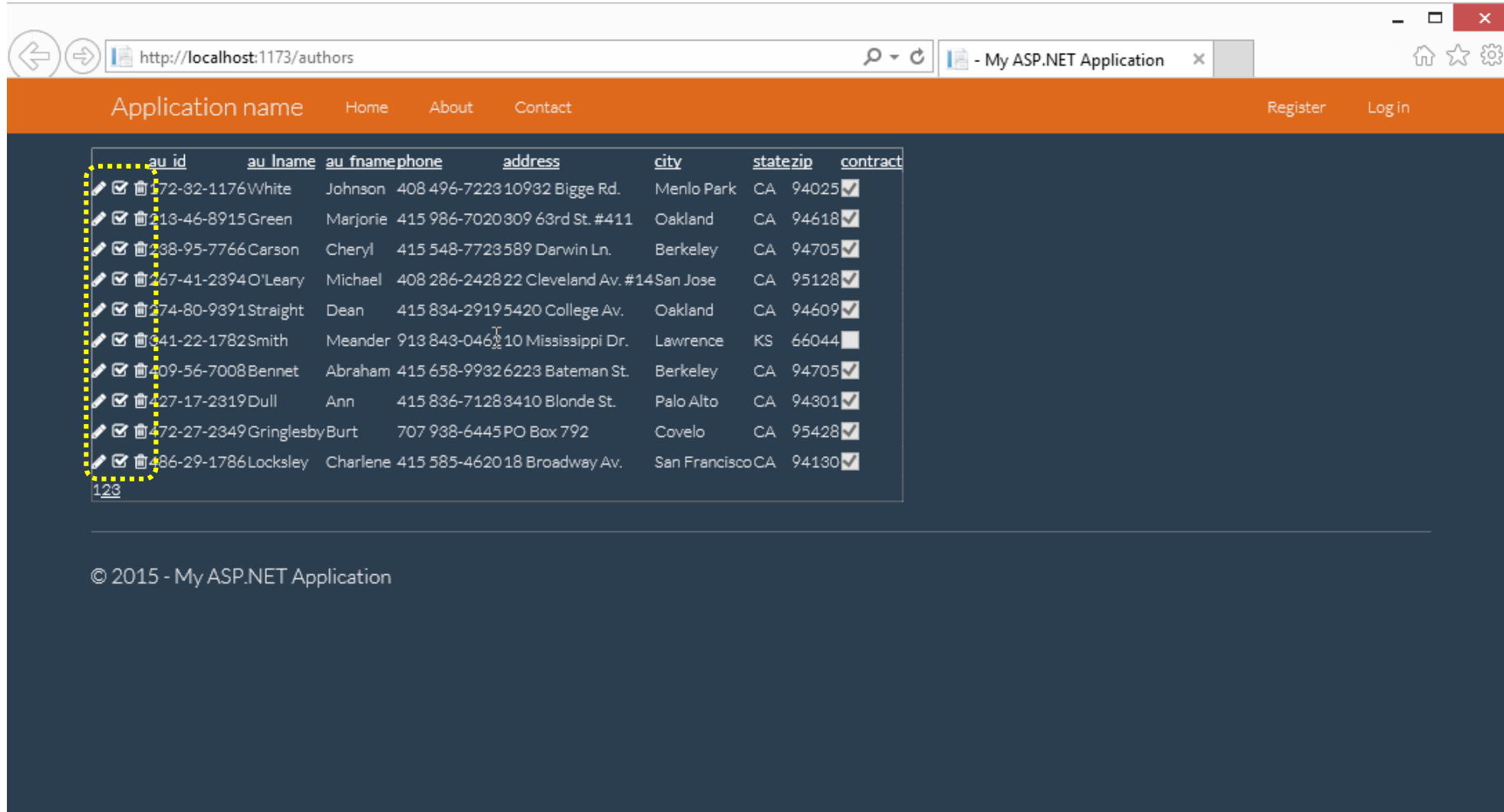
The screenshot shows the Visual Studio IDE with the following components:

- Menu Bar:** FILE, EDIT, VIEW, PROJECT, BUILD, DEBUG, TEAM, FORMAT, TABLE, TOOLS, TEST, ARCHITECTURE, ANALYZE, WINDOW, HELP.
- Toolbar:** Includes buttons for navigation, execution, and debugging. The status bar shows 'Internet Explorer', 'Debug', and 'Any CPU'.
- Toolbox:** Located on the left, showing 'asp:GridView#GridView1' selected.
- Main Window:** Displays the 'authors.aspx' file. It features an orange header bar with 'Application name'. Below it is a table with the following columns: `au_id`, `au_fname`, `phone`, `address`, `city`, `state`, `zip`, and `contract`. The table contains 10 rows of data, each with 'abc' values. The last column, `contract`, contains checkboxes, some of which are checked. Below the table is a `SqlDataSource` control.
- Server Explorer:** Located on the right, showing the 'Data Connections' section. It lists 'pubsConnectionString1 (EDC2015-Trab)' as the selected connection.

# Configuração da representação da informação



# Alteração dos botões de comando



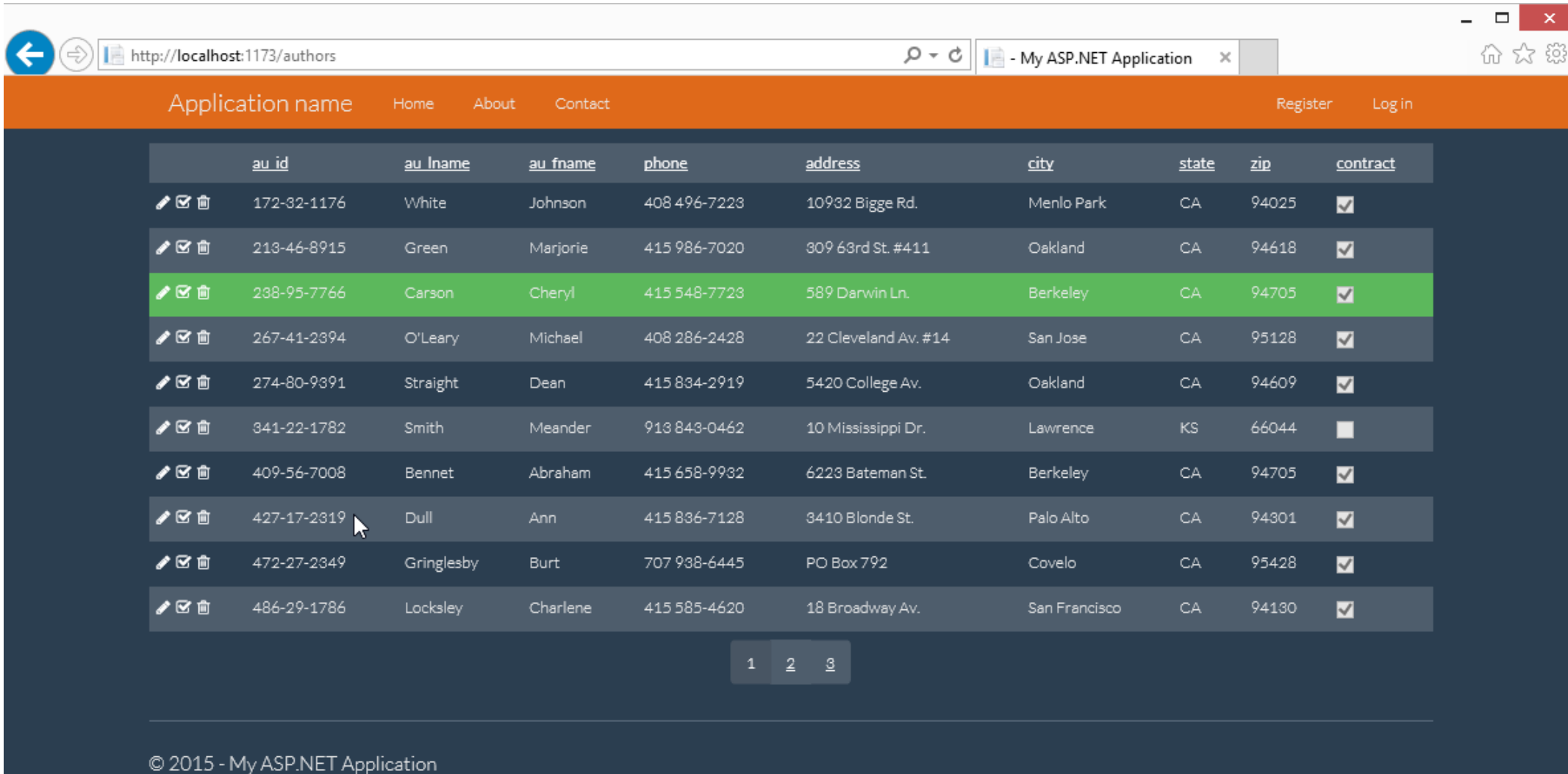
The screenshot shows a web browser window with the URL `http://localhost:1173/authors`. The application has an orange header bar with navigation links: "Application name", "Home", "About", "Contact", "Register", and "Log in". Below the header is a table of authors. A yellow dashed box highlights the first column, `au_id`, and the first row of data.

<code>au_id</code>	<code>au_lname</code>	<code>au_fname</code>	<code>phone</code>	<code>address</code>	<code>city</code>	<code>state</code>	<code>zip</code>	<code>contract</code>
172-32-1176	White	Johnson	408 496-7223	10932 Bigge Rd.	Menlo Park	CA	94025	<input checked="" type="checkbox"/>
113-46-8915	Green	Marjorie	415 986-7020	309 63rd St. #411	Oakland	CA	94618	<input checked="" type="checkbox"/>
138-95-7766	Carson	Cheryl	415 548-7723	589 Darwin Ln.	Berkeley	CA	94705	<input checked="" type="checkbox"/>
167-41-2394	O'Leary	Michael	408 286-2428	22 Cleveland Av. #14	San Jose	CA	95128	<input checked="" type="checkbox"/>
174-80-9391	Straight	Dean	415 834-2919	5420 College Av.	Oakland	CA	94609	<input checked="" type="checkbox"/>
141-22-1782	Smith	Meander	913 843-0463	10 Mississippi Dr.	Lawrence	KS	66044	<input type="checkbox"/>
109-56-7008	Bennet	Abraham	415 658-9932	6223 Bateman St.	Berkeley	CA	94705	<input checked="" type="checkbox"/>
127-17-2319	Dull	Ann	415 836-7128	3410 Blonde St.	Palo Alto	CA	94301	<input checked="" type="checkbox"/>
172-27-2349	Gringlesby	Burt	707 938-6445	PO Box 792	Covelo	CA	95428	<input checked="" type="checkbox"/>
186-29-1786	Locksley	Charlene	415 585-4620	18 Broadway Av.	San Francisco	CA	94130	<input checked="" type="checkbox"/>































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# Alteração da imagem geral e dos botões de paginação (bootstrap style)



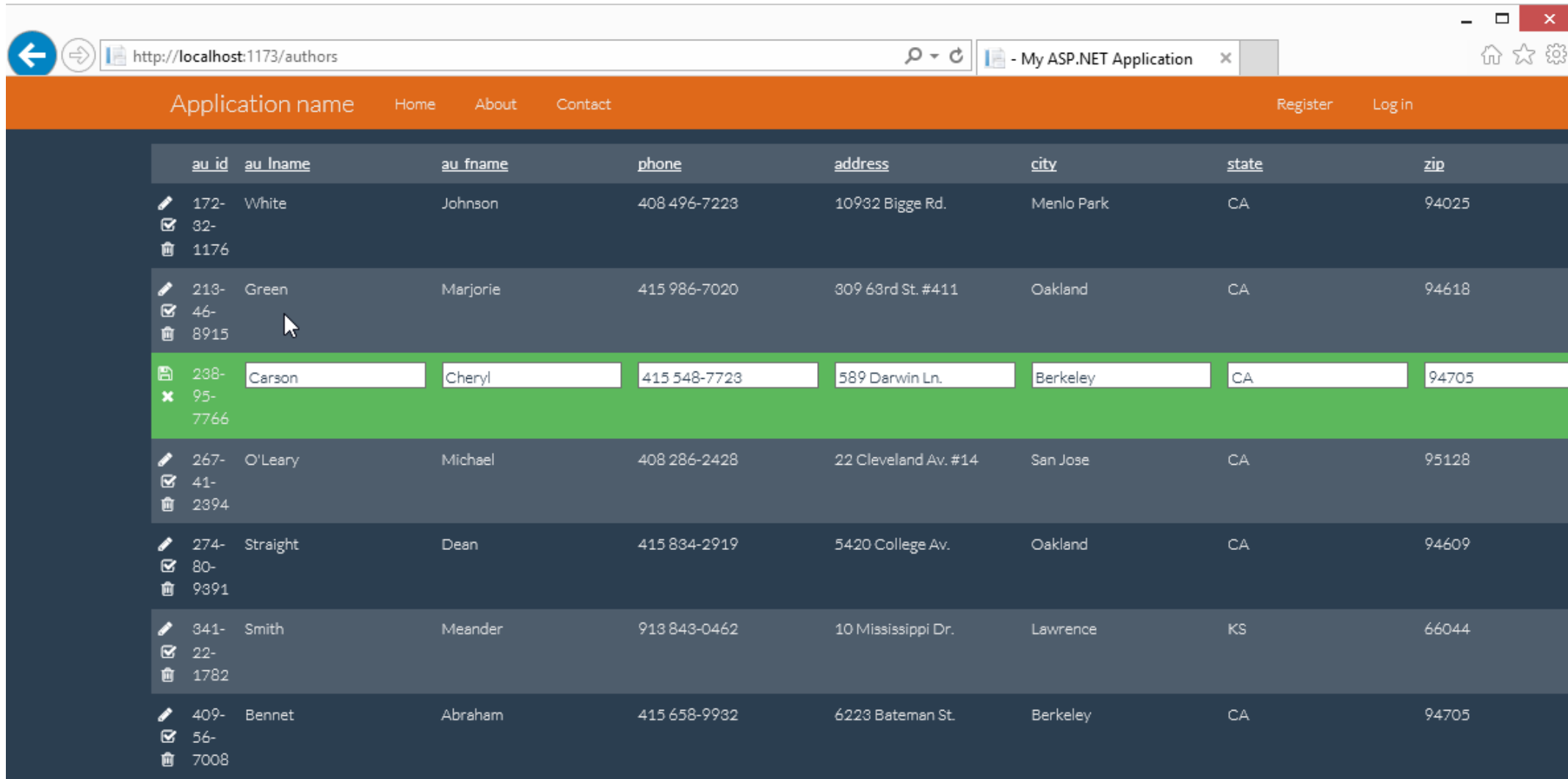
The screenshot displays a web application running on a browser at the URL `http://localhost:1173/authors`. The application has an orange header bar with navigation links: "Application name", "Home", "About", "Contact", "Register", and "Login". Below the header is a table with 10 columns: `au_id`, `au_lname`, `au_fname`, `phone`, `address`, `city`, `state`, `zip`, and `contract`. Each row represents an author and includes action icons (edit, delete, and a checkbox) on the left. The row for author ID 238-95-7766 (Carson Cheryl) is highlighted in green. At the bottom of the table, there is a pagination control showing three pages: 1, 2, and 3. The footer of the application reads "© 2015 - My ASP.NET Application".

	<code>au_id</code>	<code>au_lname</code>	<code>au_fname</code>	<code>phone</code>	<code>address</code>	<code>city</code>	<code>state</code>	<code>zip</code>	<code>contract</code>
  	172-32-1176	White	Johnson	408 496-7223	10932 Bigge Rd.	Menlo Park	CA	94025	<input checked="" type="checkbox"/>
  	213-46-8915	Green	Marjorie	415 986-7020	309 63rd St. #411	Oakland	CA	94618	<input checked="" type="checkbox"/>
  	238-95-7766	Carson	Cheryl	415 548-7723	589 Darwin Ln.	Berkeley	CA	94705	<input checked="" type="checkbox"/>
  	267-41-2394	O'Leary	Michael	408 286-2428	22 Cleveland Av. #14	San Jose	CA	95128	<input checked="" type="checkbox"/>
  	274-80-9391	Straight	Dean	415 834-2919	5420 College Av.	Oakland	CA	94609	<input checked="" type="checkbox"/>
  	341-22-1782	Smith	Meander	913 843-0462	10 Mississippi Dr.	Lawrence	KS	66044	<input type="checkbox"/>
  	409-56-7008	Bennet	Abraham	415 658-9932	6223 Bateman St.	Berkeley	CA	94705	<input checked="" type="checkbox"/>
  	427-17-2319	Dull	Ann	415 836-7128	3410 Blonde St.	Palo Alto	CA	94301	<input checked="" type="checkbox"/>
  	472-27-2349	Gringlesby	Burt	707 938-6445	PO Box 792	Covelo	CA	95428	<input checked="" type="checkbox"/>
  	486-29-1786	Locksley	Charlene	415 585-4620	18 Broadway Av.	San Francisco	CA	94130	<input checked="" type="checkbox"/>






















1 2 3

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# A grelha em “modo de edição”



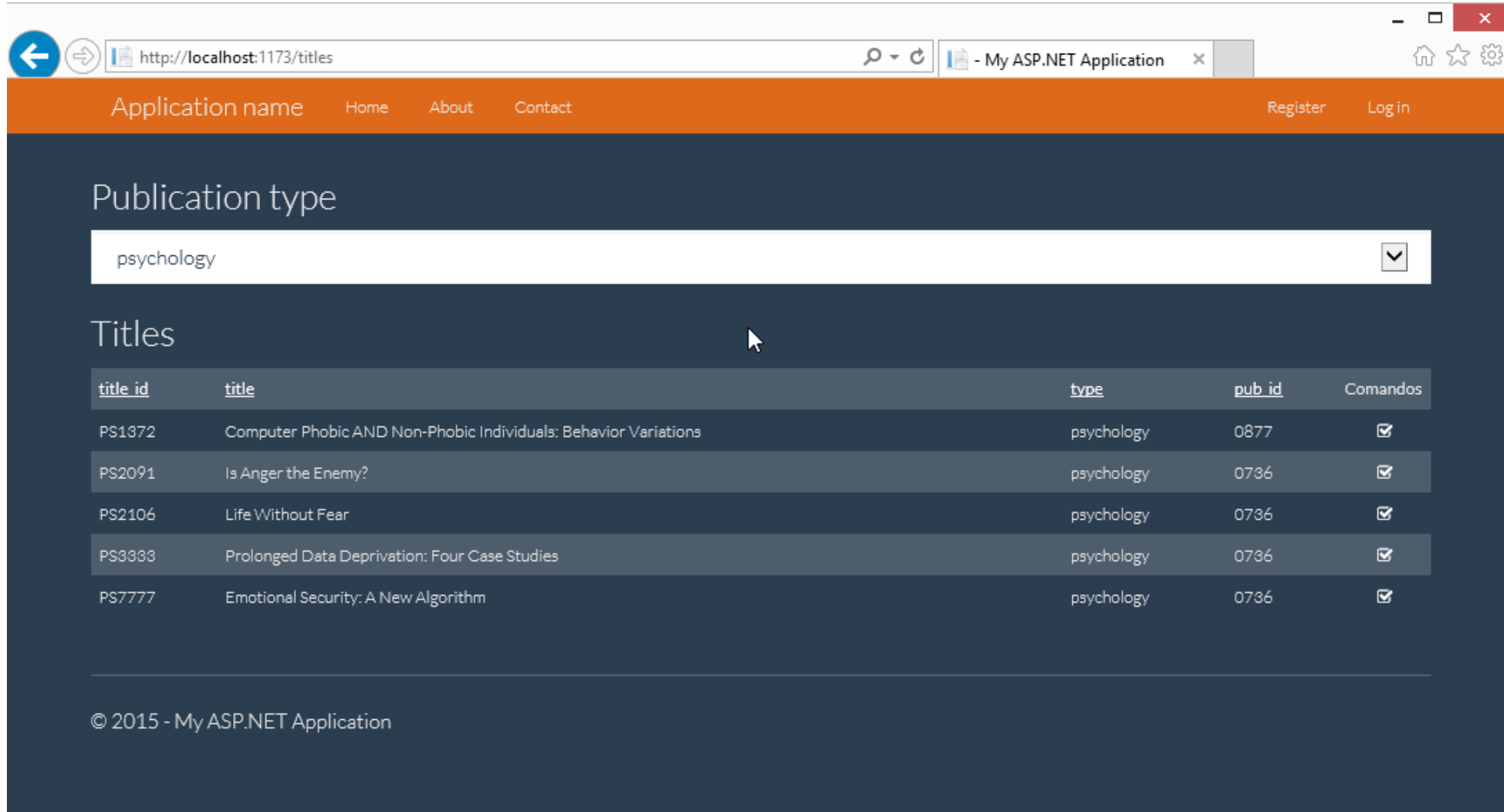
The screenshot shows a web browser window with the address `http://localhost:1173/authors`. The browser tab is titled "My ASP.NET Application". The application has an orange header bar with navigation links: "Application name", "Home", "About", "Contact", "Register", and "Log in". Below the header is a table with 8 columns: `au_id`, `au_lname`, `au_fname`, `phone`, `address`, `city`, `state`, and `zip`. The table contains 8 rows of author data. The row for author ID 238 (Carson, Cheryl) is highlighted in green, indicating it is in edit mode. In this mode, the `au_lname`, `au_fname`, `phone`, `address`, `city`, `state`, and `zip` fields are replaced with text input boxes containing the current values. The other rows are in view mode, showing the full data for each author. Each row has a set of icons on the left: a pencil for edit, a checkmark for save, and a trash can for delete.

	<code>au_id</code>	<code>au_lname</code>	<code>au_fname</code>	<code>phone</code>	<code>address</code>	<code>city</code>	<code>state</code>	<code>zip</code>
  	172-32-1176	White	Johnson	408 496-7228	10932 Bigge Rd.	Menlo Park	CA	94025
  	213-46-8915	Green	Marjorie	415 986-7020	309 63rd St. #411	Oakland	CA	94618
  	238-95-7766	<input type="text" value="Carson"/>	<input type="text" value="Cheryl"/>	<input type="text" value="415 548-7723"/>	<input type="text" value="589 Darwin Ln."/>	<input type="text" value="Berkeley"/>	<input type="text" value="CA"/>	<input type="text" value="94705"/>
  	267-41-2394	O'Leary	Michael	408 286-2428	22 Cleveland Av. #14	San Jose	CA	95128
  	274-80-9391	Straight	Dean	415 834-2919	5420 College Av.	Oakland	CA	94609
  	341-22-1782	Smith	Meander	913 843-0462	10 Mississippi Dr.	Lawrence	KS	66044
  	409-56-7008	Bennet	Abraham	415 658-9932	6223 Bateman St.	Berkeley	CA	94705

# Tarefa

- Crie uma nova página que mostre a lista de livros da base de dados;
  - Retire da listagem os campos: price, advance, royalty, ytd\_sales, notes & pubdate
  - Coloque, fora da lista de publicações, um filtro que mostre apenas os livros desse tipo;
  - Adicione uma DetailsView para ver os detalhes completos de uma publicação.
- Crie uma nova página, “UserManager.aspx” que será responsável pela gestão de utilizadores;
  - Esta página só será visível quando um utilizador estiver autenticado.

# Look & Feel da lista de títulos filtrada (atenção aos estilos!)



The screenshot shows a web browser window with the address bar displaying `http://localhost:1173/titles`. The browser tab is titled "My ASP.NET Application". The application has an orange header bar with the text "Application name" and navigation links "Home", "About", and "Contact". On the right side of the header are links for "Register" and "Log in".

Below the header, the page is titled "Publication type" and features a search input field containing the text "psychology". Below this, the section is titled "Titles".

A table displays a list of titles filtered by the search term "psychology". The table has five columns: "title\_id", "title", "type", "pub\_id", and "Comandos".

title_id	title	type	pub_id	Comandos
PS1372	Computer Phobic AND Non-Phobic Individuals: Behavior Variations	psychology	0877	<input checked="" type="checkbox"/>
PS2091	Is Anger the Enemy?	psychology	0736	<input checked="" type="checkbox"/>
PS2106	Life Without Fear	psychology	0736	<input checked="" type="checkbox"/>
PS3333	Prolonged Data Deprivation: Four Case Studies	psychology	0736	<input checked="" type="checkbox"/>
PS7777	Emotional Security: A New Algorithm	psychology	0736	<input checked="" type="checkbox"/>

At the bottom of the page, the footer text reads "© 2015 - My ASP.NET Application".

# Look & Feel da seleção de um título

(Atenção aos estilos!)

The screenshot shows a web application running on a browser at `http://localhost:1173/titles`. The application has an orange header bar with navigation links: "Application name", "Home", "About", "Contact", "Register", and "Log in". Below the header is a table listing titles. The first row is highlighted in green, indicating it is the selected title. Below the table, there is a section titled "Title details" showing the attributes of the selected title.

title_id	title	type	pub_id	Comandos
PS1372	Computer Phobic AND Non-Phobic Individuals: Behavior Variations	psychology	0877	<input checked="" type="checkbox"/>
PS2091	Is Anger the Enemy?	psychology	0736	<input checked="" type="checkbox"/>
PS2106	Life Without Fear	psychology	0736	<input checked="" type="checkbox"/>
PS3333	Prolonged Data Deprivation: Four Case Studies	psychology	0736	<input checked="" type="checkbox"/>
PS7777	Emotional Security: A New Algorithm	psychology	0736	<input checked="" type="checkbox"/>

### Title details

title_id	PS1372
title	Computer Phobic AND Non-Phobic Individuals: Behavior Variations
type	psychology
pub_id	0877
price	21.5900
advance	7000.0000
royalty	10
ytd_sales	375
notes	A must for the specialist, this book examines the difference between those who hate and fear computers and those who don't.
pubdate	21-Oct-91 00:00:00

# Look & Feel da edição de um título

(muuuuuita atenção aos estilos e aos tipos dos campos!)

The screenshot shows a web browser window with the URL `http://localhost:1173/titles`. The application has an orange navigation bar with links: Application name, Home, About, Contact, Register, and Log in. The main content area is titled 'Title details' and contains a form with the following fields:

Field Name	Value
title_id	PS1372
title	Computer Phobic AND Non-Phobic Inc
type	psychology
pub_id	0877
price	21.5900
advance	7000.0000
royalty	10
ytd_sales	375
notes	A must for the specialist, this book examines the difference between those who hate and fear computers and those who don't.
pubdate	21-Oct-91 00:00:00

The 'type' dropdown menu and the 'notes' text area are highlighted with yellow dashed borders.

# Tarefa

- Crie uma nova página, “UserManager.aspx” que será responsável pela gestão de utilizadores;
  - Esta página só será visível quando um utilizador estiver autenticado.

**Pergunta:** e onde está a base de dados de utilizadores?????

- Simples...: no diretório “App\_Data” num ficheiro com o nome+data&hora de criação do projeto.
  - Exemplo: “aspnet-EDC2015-Trabalho1-20150922113816”

# Links interessantes...

- Erik Reitan, “Create a secure ASP.NET Web Forms app with user registration, email confirmation and password reset (C#)”, October 2, 2014, <http://www.asp.net/web-forms/overview/security/create-a-secure-aspnet-web-forms-app-with-user-registration,-email-confirmation-and-password-reset>
- Erik Reitan, “Membership and Administration”, September 8, 2014, <http://www.asp.net/web-forms/overview/getting-started/getting-started-with-aspnet-45-web-forms/membership-and-administration>

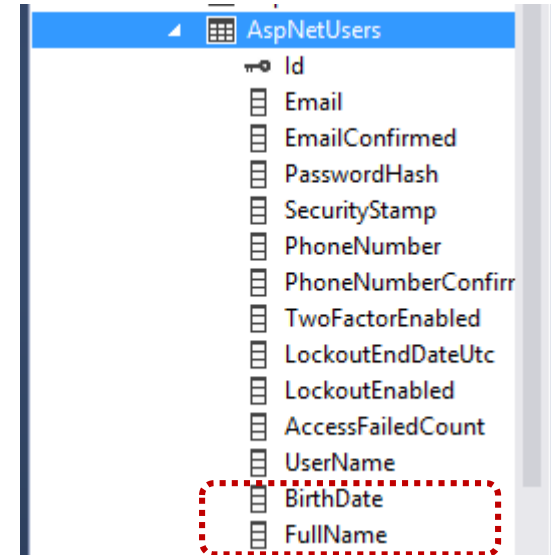




O sistema de gestão de utilizadores possui diversos campos pré-definidos sendo possível acrescentar-lhe outros ou mudar o conteúdo atual dos existentes.

# Tarefa

- Adicionar novos campos ao profile
  - FullName, BirthDate

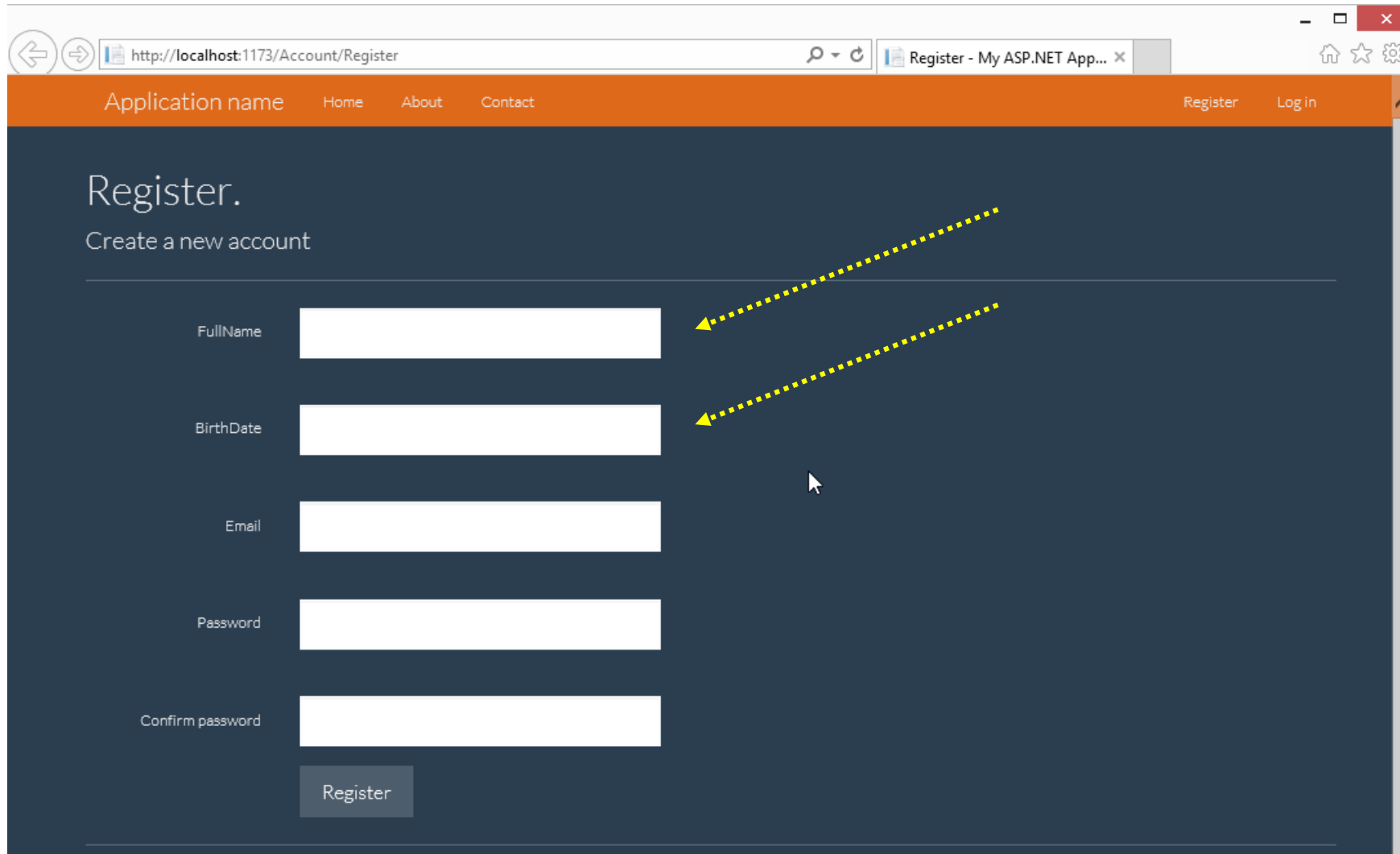


Id
Email
EmailConfirmed
PasswordHash
SecurityStamp
PhoneNumber
PhoneNumberConfirmed
TwoFactorEnabled
LockoutEndDateUtc
LockoutEnabled
AccessFailedCount
UserName
BirthDate
FullName

# Ajuda

- Realize o tutorial sugerido que indica como fazer a inserção do campo BirthDate no profile.
- Pranav Rastogi, “Customizing profile information in ASP.NET Identity in VS 2013 templates”,  
<http://blogs.msdn.com/b/webdev/archive/2013/10/16/customizing-profile-information-in-asp-net-identity-in-vs-2013-templates.aspx>

# O formulário Account/Register.aspx

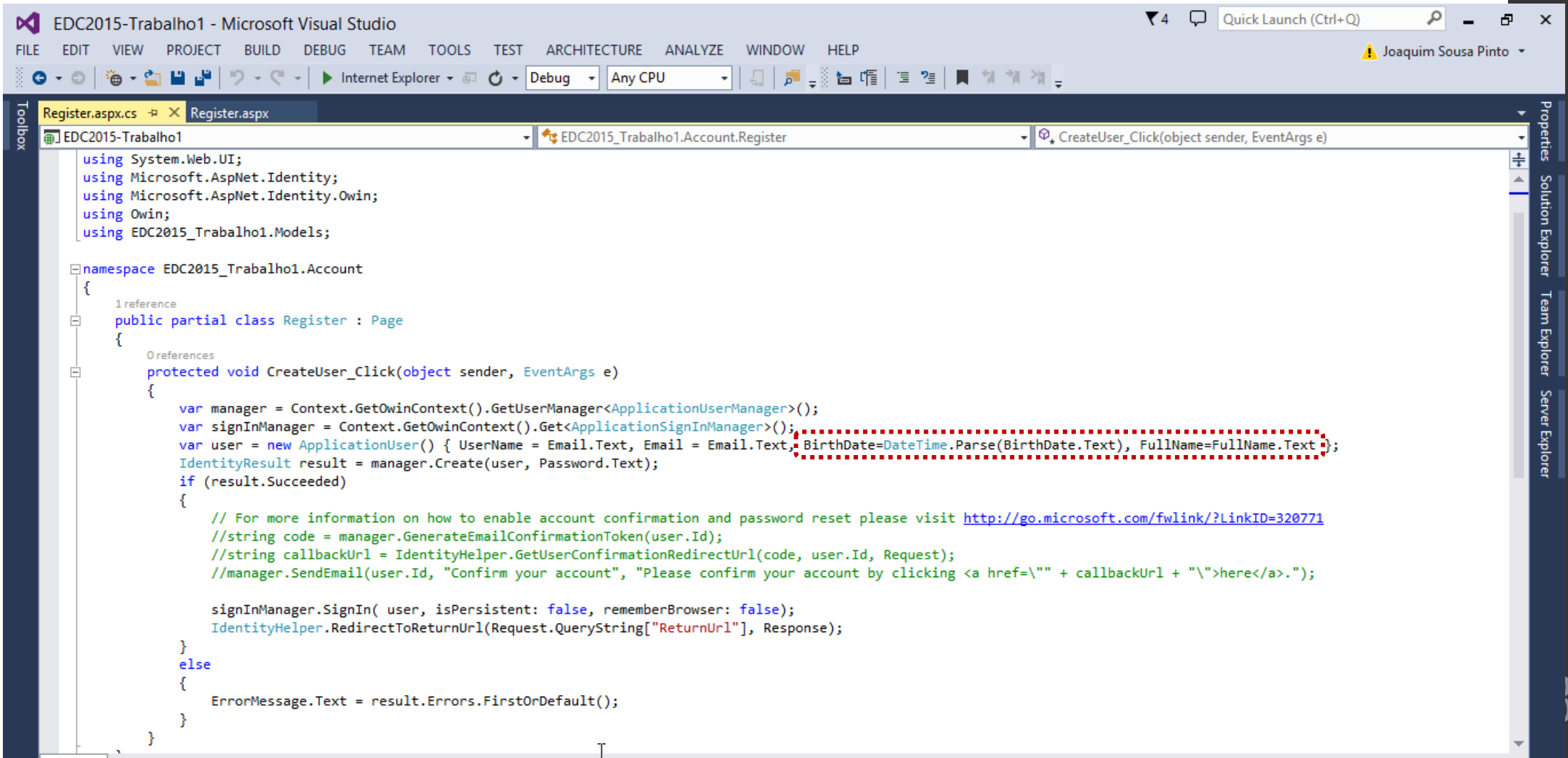


The screenshot shows a web browser window with the address bar displaying `http://localhost:1173/Account/Register`. The page has an orange navigation bar with links for "Application name", "Home", "About", "Contact", "Register", and "Log in". The main content area has a dark blue background and is titled "Register. Create a new account". It contains a registration form with the following fields and labels:

- FullName
- BirthDate
- Email
- Password
- Confirm password

At the bottom of the form is a "Register" button. Two yellow dotted arrows point from the right side of the form towards the top right corner of the browser window. A mouse cursor is visible near the bottom of the form.

# Account/Register.aspx.cs

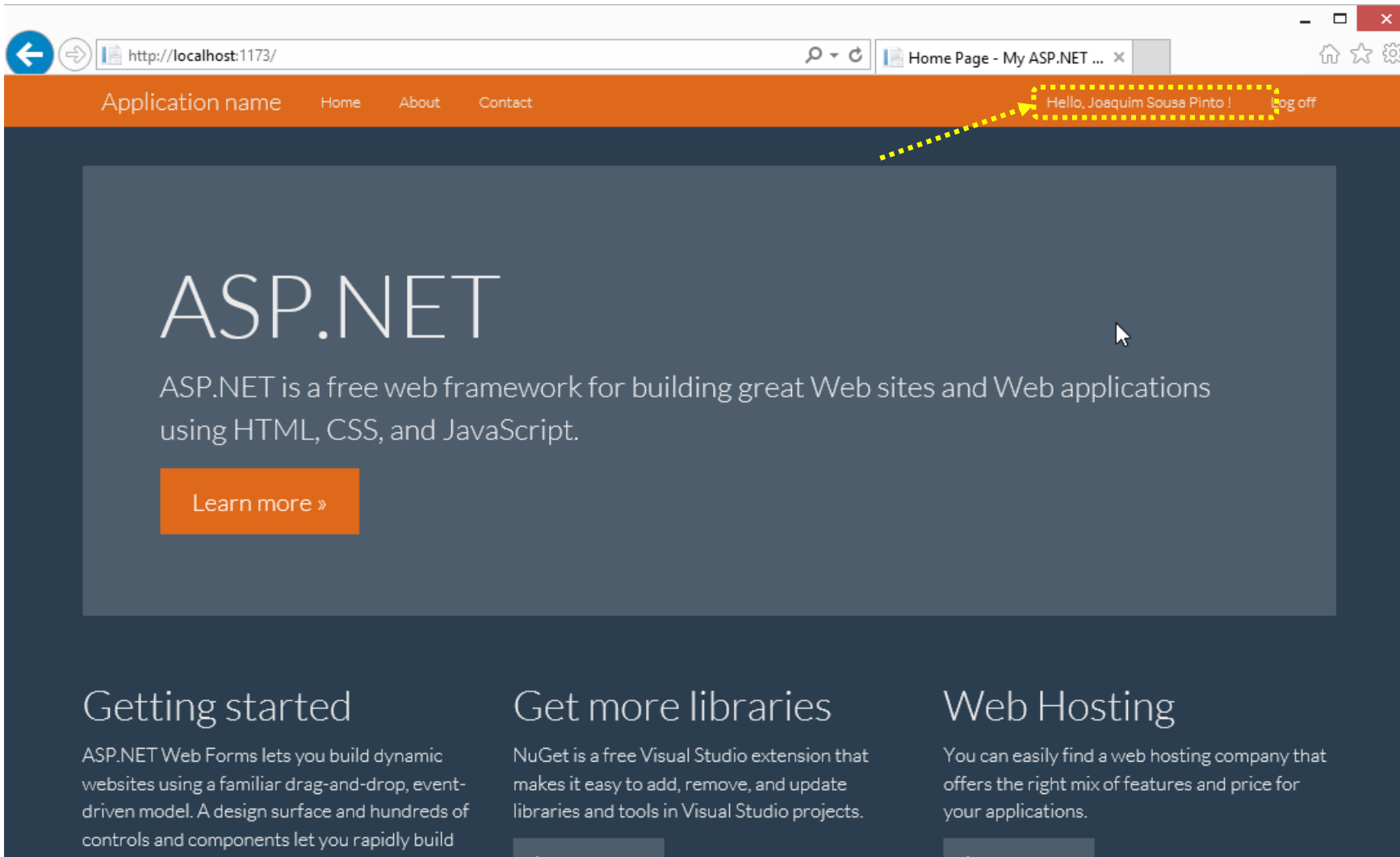


```
using System.Web.UI;
using Microsoft.AspNet.Identity;
using Microsoft.AspNet.Identity.Owin;
using Owin;
using EDC2015_Trabalho1.Models;

namespace EDC2015_Trabalho1.Account
{
    1 reference
    public partial class Register : Page
    {
        0 references
        protected void CreateUser_Click(object sender, EventArgs e)
        {
            var manager = Context.GetOwinContext().GetUserManager<ApplicationUserManager>();
            var signInManager = Context.GetOwinContext().Get<ApplicationSignInManager>();
            var user = new ApplicationUser() { UserName = Email.Text, Email = Email.Text, BirthDate=DateTime.Parse(BirthDate.Text), FullName=FullName.Text };
            IdentityResult result = manager.Create(user, Password.Text);
            if (result.Succeeded)
            {
                // For more information on how to enable account confirmation and password reset please visit http://go.microsoft.com/fwlink/?LinkID=320771
                //string code = manager.GenerateEmailConfirmationToken(user.Id);
                //string callbackUrl = IdentityHelper.GetUserConfirmationRedirectUrl(code, user.Id, Request);
                //manager.SendEmail(user.Id, "Confirm your account", "Please confirm your account by clicking <a href=\"" + callbackUrl + "\">here</a>.");

                signInManager.SignIn( user, isPersistent: false, rememberBrowser: false);
                IdentityHelper.RedirectToReturnUrl(Request.QueryString["ReturnUrl"], Response);
            }
            else
            {
                ErrorMessage.Text = result.Errors.FirstOrDefault();
            }
        }
    }
}
```

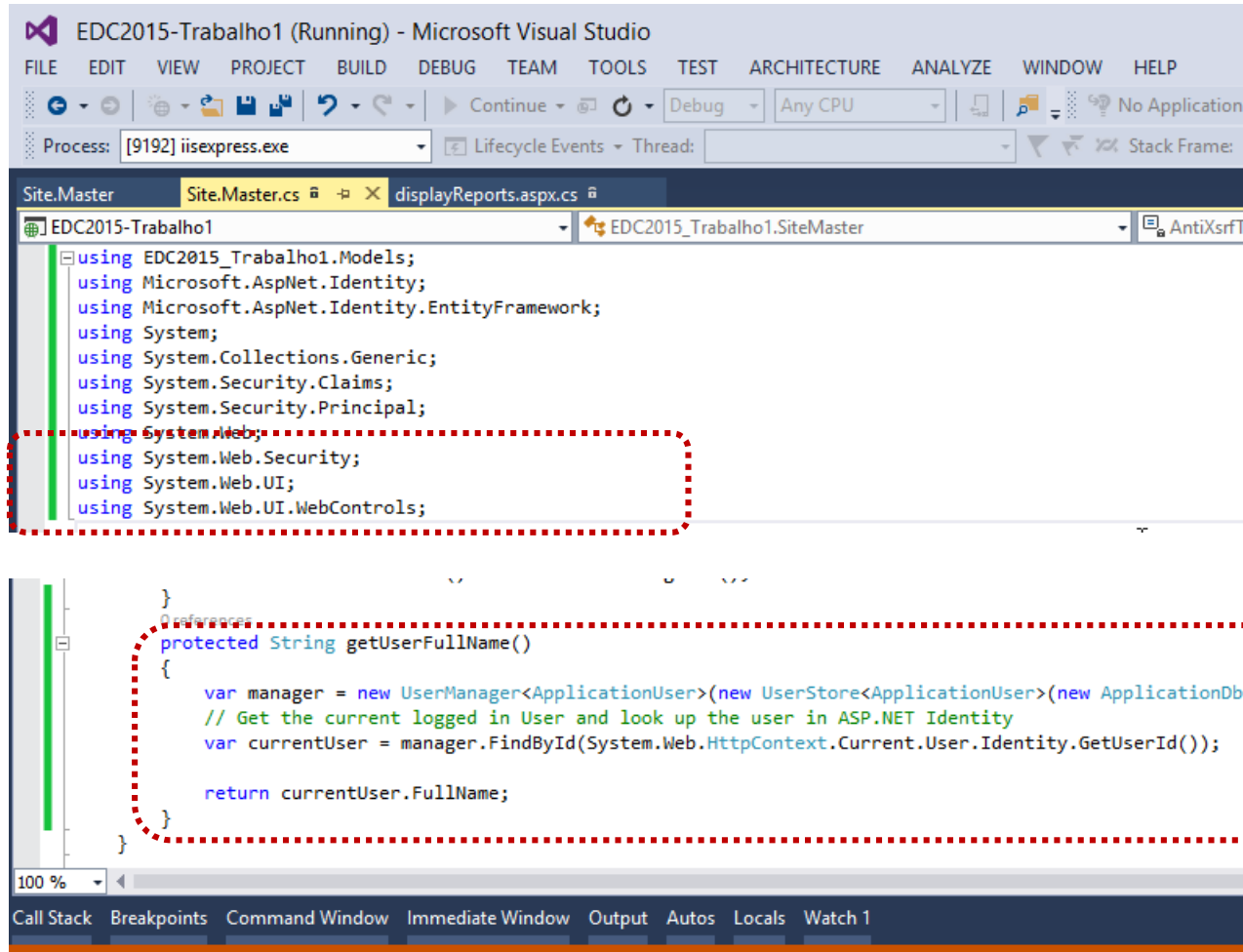
# Alterar a MasterPage ...



# Ficheiro Site.Master

[illegible]

# Ficheiro Site.Master.cs



EDC2015-Trabalho1 (Running) - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Process: [9192] iisexpress.exe | Lifecycle Events | Thread: | Stack Frame:

Site.Master | Site.Master.cs | displayReports.aspx.cs

EDC2015-Trabalho1 | EDC2015\_Trabalho1.SiteMaster | AntiXsrfT

```
using EDC2015_Trabalho1.Models;
using Microsoft.AspNet.Identity;
using Microsoft.AspNet.Identity.EntityFramework;
using System;
using System.Collections.Generic;
using System.Security.Claims;
using System.Security.Principal;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.WebControls;
```

```
}
protected String getUserFullName()
{
    var manager = new UserManager<ApplicationUser>(new UserStore<ApplicationUser>(new ApplicationDbContext()));
    // Get the current logged in User and look up the user in ASP.NET Identity
    var currentUser = manager.FindById(System.Web.HttpContext.Current.User.Identity.GetUserId());

    return currentUser.FullName;
}
```

100 %

Call Stack Breakpoints Command Window Immediate Window Output Autos Locals Watch 1

# Tarefas

- Crie a pasta “personal” para meter os conteúdos para os utilizadores do sistema
  - Garanta que apenas utilizadores autenticados acedem à pasta
- Implemente a página “personal/displayReports.aspx” que se destina a mostrar todos os títulos e todas as vendas de um determinado utilizador (UserName).
- Crie a stored procedure getMySales na BD pubs para alimentar a lista.
  - Parâmetros:
    - Entrada: UserName;
    - Saída: Lista de encomendas para o autor
- Crie um menu na MasterPage de modo permitir o acesso a esta página

## AJUDA:

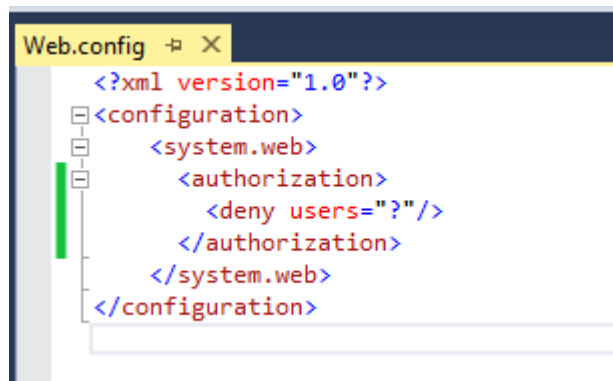
Para simular esta situação, crie um login cujo nome do utilizador (FullName) seja a combinação dos valores de "au\_fname" + “(espaço)” + "au\_lname”

Exemplos: Abraham Bennet | Reginald Blotchet-Halls | Cheryl Carson | ...



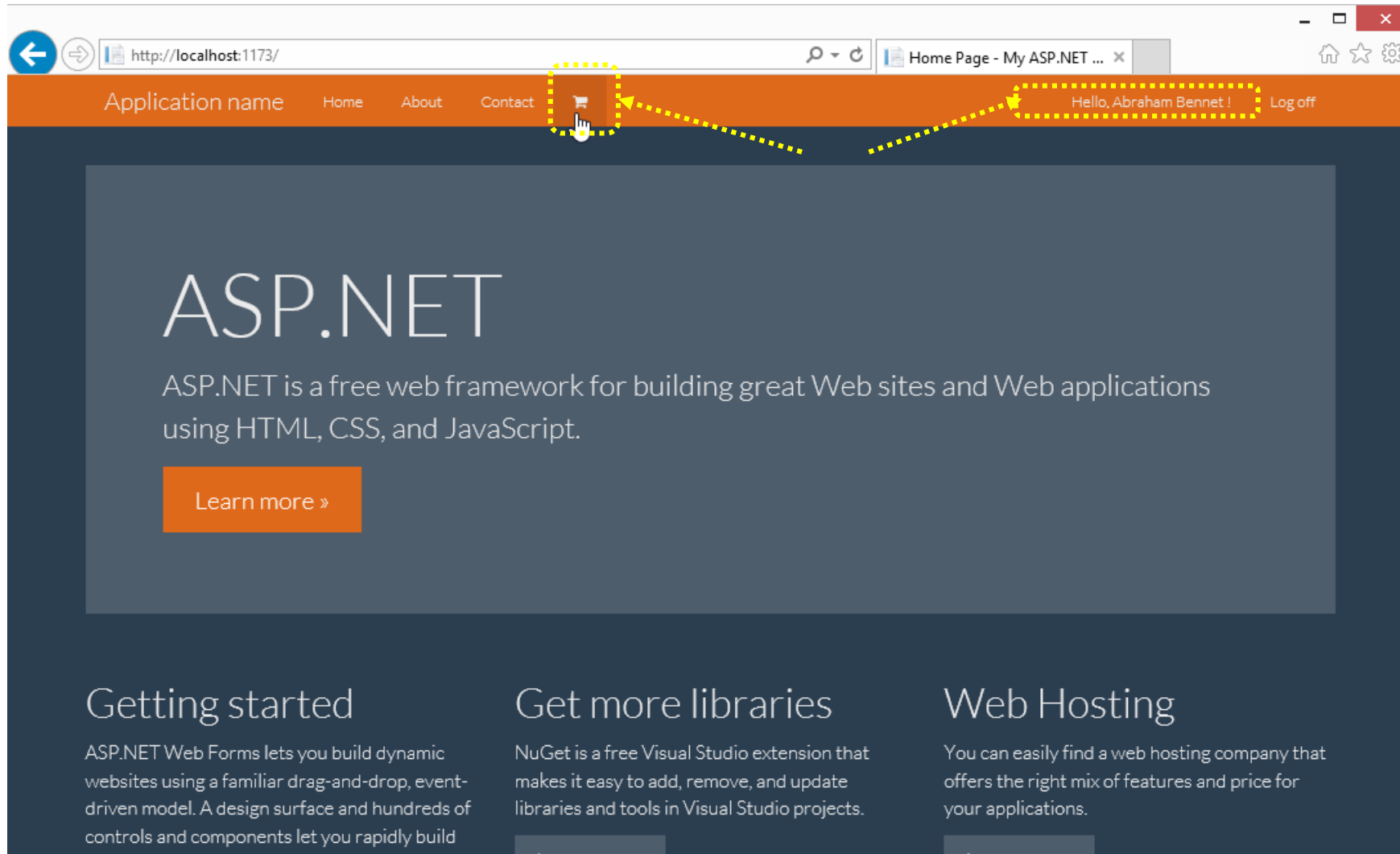
# Controlo de acesso ao diretório

- Para controlar o acesso a um diretório, cria-se nesse mesmo diretório um ficheiro web.config em que se configura “quem pode” ou “quem não pode” aceder a um diretório.
  - Neste caso, o mais fácil +e configurar dizendo que “quem não estiver autenticado não pode aceder”

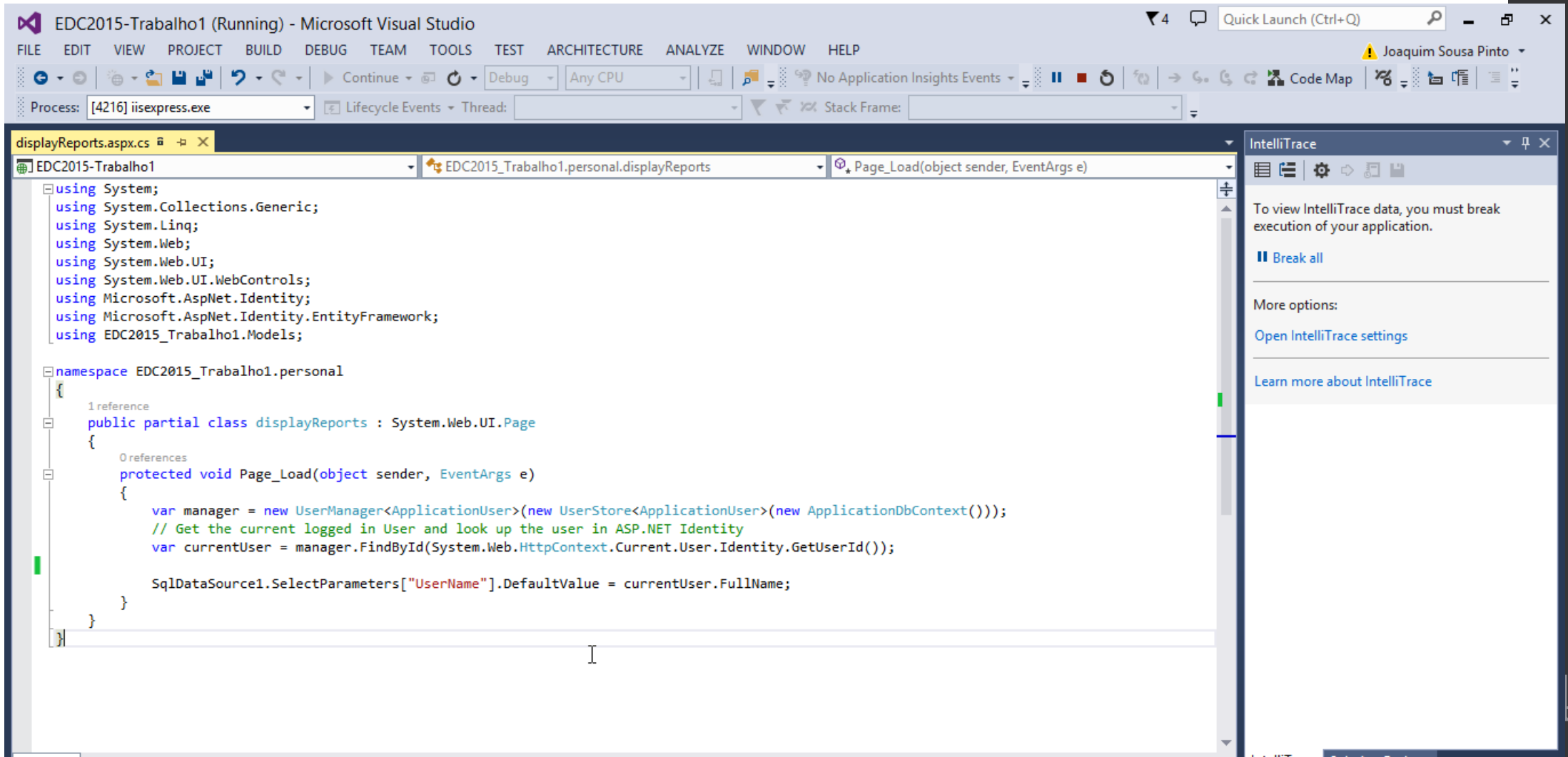


```
<?xml version="1.0"?>
<configuration>
  <system.web>
    <authorization>
      <deny users="?" />
    </authorization>
  </system.web>
</configuration>
```

# personal/displayReports.aspx



# personal/displayReports.aspx.cs



EDC2015-Trabalho1 (Running) - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Process: [4216] iisexpress.exe Lifecycle Events Thread: Stack Frame:

displayReports.aspx.cs

EDC2015-Trabalho1 EDC2015\_Trabalho1.personal.displayReports Page\_Load(object sender, EventArgs e)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using Microsoft.AspNet.Identity;
using Microsoft.AspNet.Identity.EntityFramework;
using EDC2015_Trabalho1.Models;

namespace EDC2015_Trabalho1.personal
{
    1 reference
    public partial class displayReports : System.Web.UI.Page
    {
        0 references
        protected void Page_Load(object sender, EventArgs e)
        {
            var manager = new UserManager<ApplicationUser>(new UserStore<ApplicationUser>(new ApplicationDbContext()));
            // Get the current logged in User and look up the user in ASP.NET Identity
            var currentUser = manager.FindById(System.Web.HttpContext.Current.User.Identity.GetUserId());

            SqlDataSource1.SelectParameters["UserName"].DefaultValue = currentUser.FullName;
        }
    }
}
```

IntelliTrace

To view IntelliTrace data, you must break execution of your application.

Break all

More options:

[Open IntelliTrace settings](#)

[Learn more about IntelliTrace](#)

# Ficheiro Site.Master

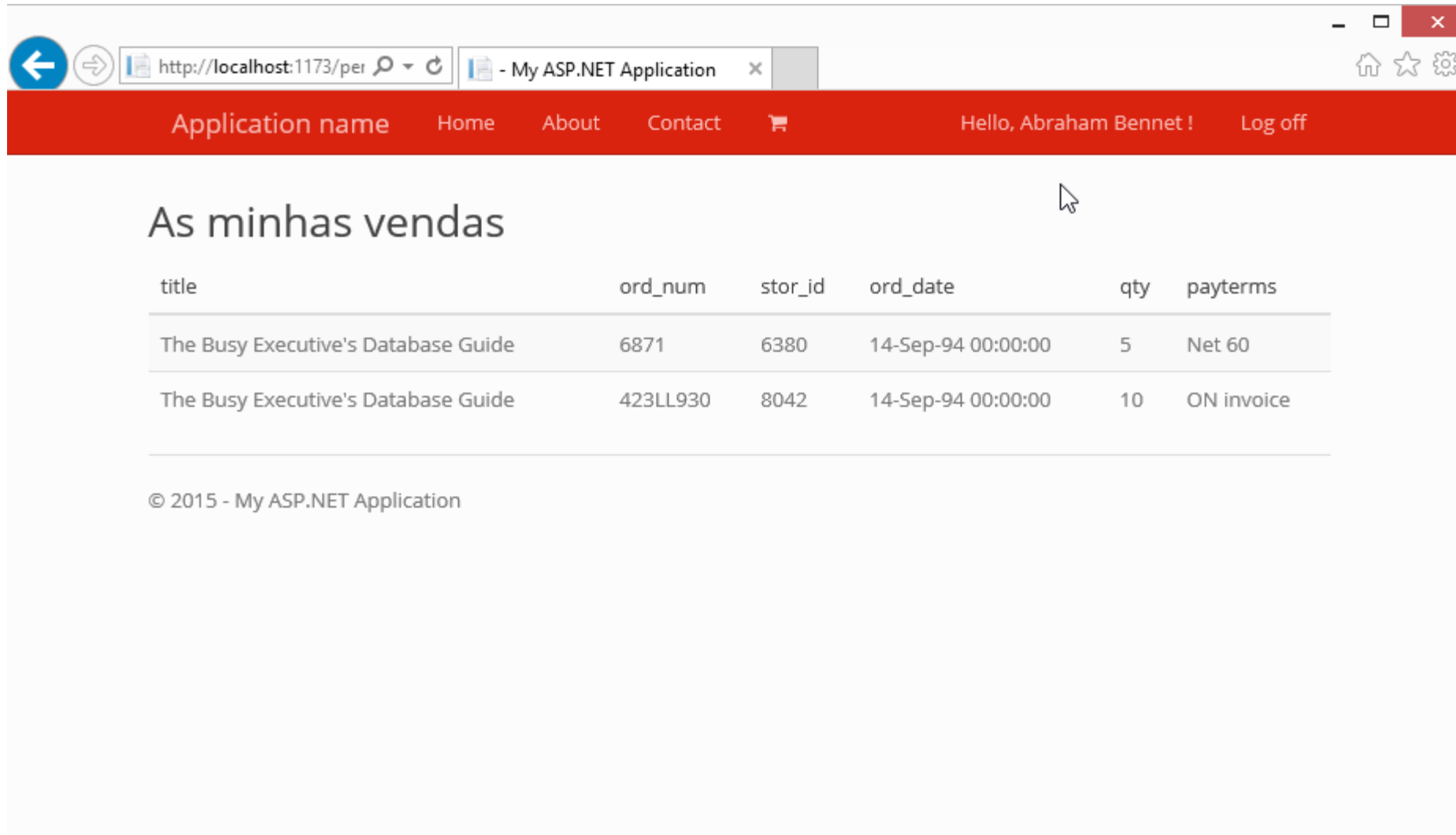
The screenshot displays the Microsoft Visual Studio IDE with the 'EDC2015-Trabalho1' project open. The 'Site.Master' file is selected in the Solution Explorer and is being edited in the main code window. The code is written in ASP.NET and defines the structure of the website's master page, including a navigation bar with a toggle button, a list of links (Home, About, Contact), and a login section with a shopping cart icon. The code uses standard ASP.NET syntax with server-side controls and data-binding expressions.

```
<div 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>
      <a class="navbar-brand" runat="server" href="/">Application name</a>
    </div>
    <div class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a runat="server" href="/">Home</a></li>
        <li><a runat="server" href="/About">About</a></li>
        <li><a runat="server" href="/Contact">Contact</a></li>
        <asp:LoginView runat="server">
          <LoggedInTemplate>
            <li><a runat="server" href="/personal/displayReports"><i class="fa fa-shopping-cart"></i></a></li>
          </LoggedInTemplate>
        </asp:LoginView>
      </ul>
      <asp:LoginView runat="server" ViewStateMode="Disabled">
        <AnonymousTemplate>
          <ul class="nav navbar-nav navbar-right">
            <li><a runat="server" href="/Account/Register">Register</a></li>
            <li><a runat="server" href="/Account/Login">Log in</a></li>
          </ul>
        </AnonymousTemplate>
        <LoggedInTemplate>
          <ul class="nav navbar-nav navbar-right">
            <li><a runat="server" href="/Account/Manage" title="Manage your account">Hello, <%: getUserFullName() %> !</a></li>
          </ul>
        </LoggedInTemplate>
      </asp:LoginView>
    </div>
  </div>
</div>
```

The Solution Explorer on the right shows the project structure for 'EDC2015-Trabalho1', including folders like 'Account', 'App\_Data', 'App\_Start', 'Content', 'fonts', 'Migrations', 'Models', and 'personal'. The 'personal' folder contains the files 'bookStore.aspx', 'displayReports.aspx', and 'Web.config'. The 'Scripts' folder contains 'About.aspx', 'authors.aspx', 'Bundle.config', 'Contact.aspx', 'Default.aspx', 'favicon.ico', 'Global.asax', 'packages.config', 'Project\_Readme.html', and 'Site.Master'.

# personal/displayReports.aspx

## Look & Feel



The screenshot shows a web browser window with the address bar displaying 'http://localhost:1173/per'. The browser has a single tab titled 'My ASP.NET Application'. The page features a red navigation bar with links for 'Application name', 'Home', 'About', 'Contact', and a shopping cart icon. It also displays a user greeting 'Hello, Abraham Bennet!' and a 'Log off' link. The main content area is titled 'As minhas vendas' and contains a table with two rows of sales data. The footer indicates the copyright is '© 2015 - My ASP.NET Application'.

title	ord_num	stor_id	ord_date	qty	payterms
The Busy Executive's Database Guide	6871	6380	14-Sep-94 00:00:00	5	Net 60
The Busy Executive's Database Guide	423LL930	8042	14-Sep-94 00:00:00	10	ON invoice

© 2015 - My ASP.NET Application

# Programação do lado do cliente

# DataSources

<http://192.168.160.36/JSON/>

