



Ambientes de Desenvolvimento Avançados

<http://www.dei.isep.ipp.pt/~jtavares/ADAV/ADAV.htm>

Aula Teórico-Prática
Engenharia Informática

2004/2005

José António Tavares
jrt@isep.ipp.pt

2004/2005

1

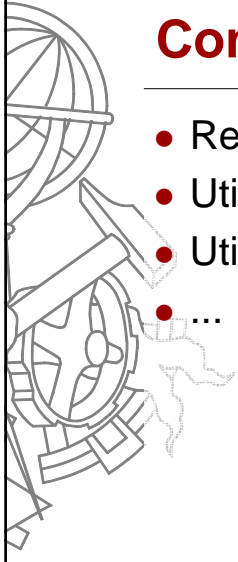


Componente para simulação de envio de SMS's

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

2



Conteúdo

- Registo e *Download*
- Utilização do componente
- Utilização como Serviço WEB
- ...

2004/2005 ADAV 3
Ambientes de Desenvolvimento Avançados



Registo e *Download*

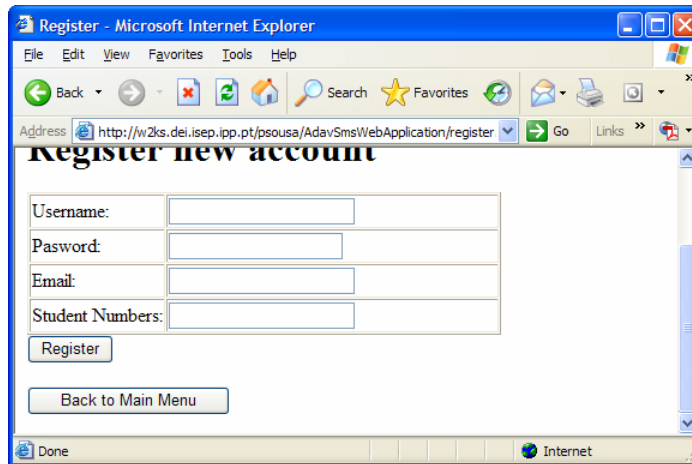
http://w2ks.dei.isep.ipv.pt/psousa/AdavSmsWebApplication/



2004/2005 ADAV 4
Ambientes de Desenvolvimento Avançados

Registo e Download

• Registrar



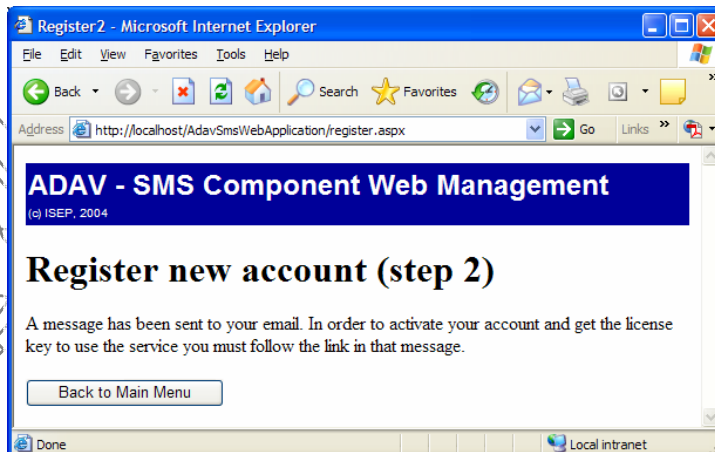
The screenshot shows a Microsoft Internet Explorer window titled "Register - Microsoft Internet Explorer". The address bar contains the URL "http://w2ks.dei.isep.ipp.pt/psousa/AdavSmsWebApplication/register". The main content area displays the heading "Register new account" and a registration form with the following fields: Username, Password, Email, and Student Numbers. Below the form is a "Register" button and a "Back to Main Menu" button. The status bar at the bottom indicates "Done" and "Internet".

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

5

Registo e Download



The screenshot shows a Microsoft Internet Explorer window titled "Register2 - Microsoft Internet Explorer". The address bar contains the URL "http://localhost/AdavSmsWebApplication/register.aspx". The main content area displays the heading "ADAV - SMS Component Web Management" with the copyright notice "(c) ISEP, 2004". Below this is the heading "Register new account (step 2)" and a message: "A message has been sent to your email. In order to activate your account and get the license key to use the service you must follow the link in that message." Below the message is a "Back to Main Menu" button. The status bar at the bottom indicates "Done" and "Local intranet".

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

6

Registo e Download

Register2 - Microsoft Internet Explorer

Address <http://localhost/AdavSmsWebApplication/Register3.aspx?challenge=E4ZED>

ADAV - SMS Component Web Management
(c) ISEP, 2004

Register new account (step 3)

Your account has been activated successfully. A message has been sent to your email with the licence key you must use to access the service.

Done Local intranet

AdavSms - registration - Message (Plain Text)

From: AdavSms-noreply@dei.isep.pt Sent: sex 03-12-2004 17:14

<http://localhost/AdavSmsWebApplication/Register3.aspx?challenge=E4ZED>

<mailto:AdavSms-noreply@dei.isep.pt>

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

7

Registo e Download

User: user1

token:
CFCWn05LkcgKvWPhrYrQl 7Kn57zl hWfM

Please download:
<http://w2ks.dei.isep.pt/psousa/AdavSmsWebApplication/files/AdavSms.zip>

How to use:

- unpack the dlls in the zip file to your development directory
- in your project add reference to the two downloaded components
- use the component according to the following sample:

```
AdavSms.AdavSms comp = AdavSmsClient.Factory.CreateAdavSmsService();  
float c = comp.Send(TOKEN, DESTINATION, MESSAGE);
```


where:

TOKEN is the license key at the top of this email message
DESTINATION is the number you wish to send the sms to
MESSAGE is the text you want to send (max. 255 characters)
the method returns the COST of the call or a negative value in case of error (e.g., Invalid token)

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados


8



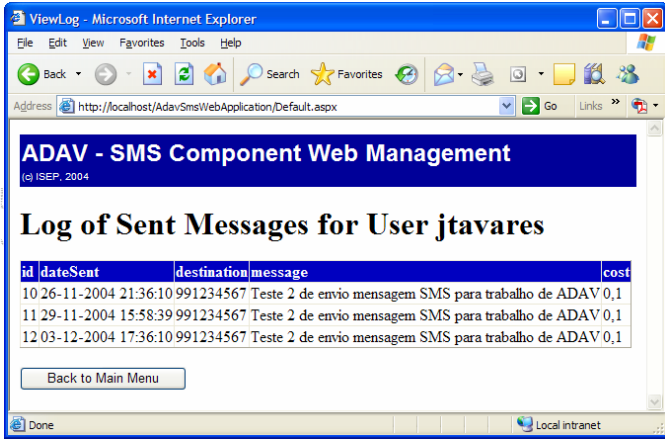
Utilização do componente

Demo I – VS.NET Console Application

2004/2005 ADAV 9
Ambientes de Desenvolvimento Avançados



Utilização do componente

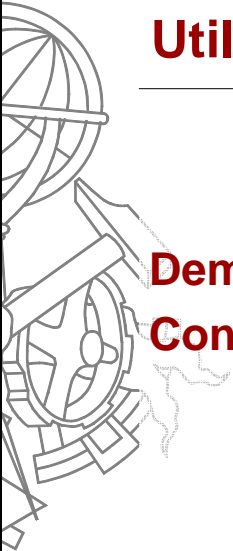


id	dateSent	destination	message	cost
10	26-11-2004 21:36:10	991234567	Teste 2 de envio mensagem SMS para trabalho de ADAV 0,1	
11	29-11-2004 15:58:39	991234567	Teste 2 de envio mensagem SMS para trabalho de ADAV 0,1	
12	03-12-2004 17:36:10	991234567	Teste 2 de envio mensagem SMS para trabalho de ADAV 0,1	

Back to Main Menu

Done Local intranet

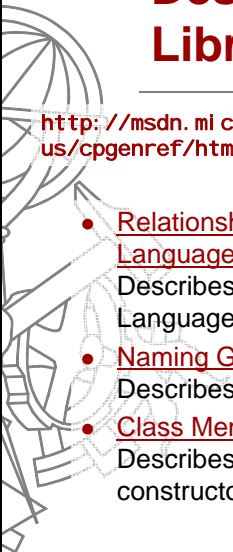
2004/2005 ADAV 10
Ambientes de Desenvolvimento Avançados



Utilização como Serviço WEB

Demo II – VS.NET Console Application

2004/2005 ADAV 11
Ambientes de Desenvolvimento Avançados



Design Guidelines for Class Library Developers

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpgenre/html/cpconnetframeworkdesigndelines.asp>

- [Relationship to the Common Type System and the Common Language Specification](#)
Describes the role of the common type system and the Common Language Specification in class library development.
- [Naming Guidelines](#)
Describes the guidelines for naming types in class libraries.
- [Class Member Usage Guidelines](#)
Describes the guidelines for using properties, events, methods, constructors, fields, and parameters in class libraries.

2004/2005 ADAV 12
Ambientes de Desenvolvimento Avançados



Design Guidelines for Class Library Developers

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpgenref/html/cpconnetframeworkdesigndelines.asp>

- [Type Usage Guidelines](#)
Describes the guidelines for using classes, value types, delegates, attributes, and nested types in class libraries.
- [Guidelines for Exposing Functionality to COM](#)
Describes the guidelines for exposing class library types to COM.
- [Error Raising and Handling Guidelines](#)
Describes the guidelines for raising and handling errors in class libraries.
- [Array Usage Guidelines](#)
Describes the guidelines for using arrays in class libraries and how to decide whether to use an array vs. a collection.

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

13



Design Guidelines for Class Library Developers

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpgenref/html/cpconnetframeworkdesigndelines.asp>

- [Operator Overloading Usage Guidelines](#)
Describes the guidelines for implementing operator overloading in base class libraries.
- [Guidelines for Implementing Equals and the Equality Operator \(==\)](#)
Describes the guidelines for implementing the **Equals** method and the equality operator (==) in class libraries.
- [Guidelines for Casting Types](#)
Describes the guidelines for casting types in class libraries.
- [Common Design Patterns](#)
Describes how to implement design patterns for **Finalize** and **Dispose** methods, the **Equals** method, callback functions, and time-outs.

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

14

Design Guidelines for Class Library Developers

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpgenref/html/cpconnetframeworkdesignguidelines.asp>

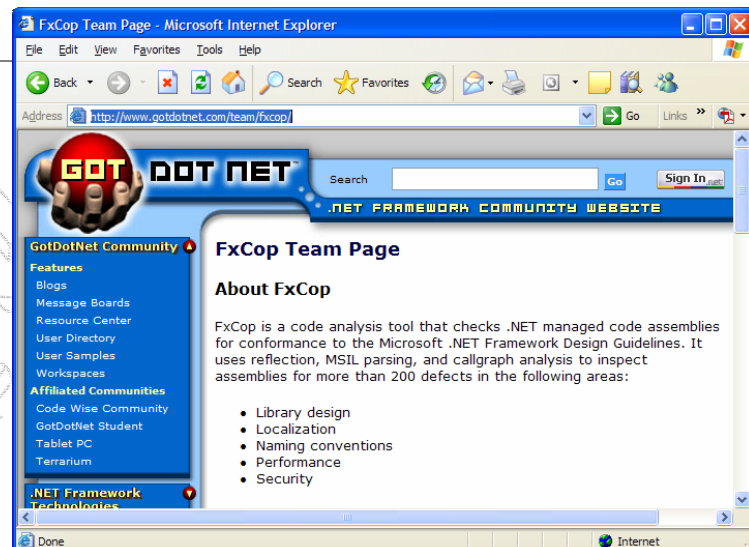
- [Security in Class Libraries](#)
Describes the precautions to take when writing highly trusted class library code, and how to help protect resources with permissions.
- [Threading Design Guidelines](#)
Describes the guidelines for implementing threading in class libraries.
- [Guidelines for Asynchronous Programming](#)
Describes the guidelines for implementing asynchronous programming in class libraries and provides an asynchronous design pattern.

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

15

FxCop (<http://www.gotdotnet.com/team/fxcop/>)



2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

16

FxCop (<http://www.gotdotnet.com/team/fxcop/>)

The screenshot shows the Microsoft FxCop application interface. The 'Targets' pane on the left lists the project structure: My FxCop Project, ShopClassLibrary.dll, shopclasslibrary.dll, ShopClassLibrary, Customer, and ICustomer. The 'Rules' pane on the right shows a table with one rule:

Level	Fx Cate...	Certainty	Rule
Warning	Non Bre...	90%	Avoid calls that

The main output pane displays a warning message:

```
Warning, Certainty 90, for "AvoidCallsThatBoxValueTypes"
{
  Target      : "Add(System.String, System.String, System.String, System.Str
  Id          : "System.Data.OleDb.OleDbCommand.ExecuteScalar" (String)
  Location    : "file:///c:/documents%20and%20settings/josé%20tavares/wo
  Resolution  : "Customer.Add(String, String, String, String, String,
  String, String, ShopStatusEnum6):Int64 calls OleDbCommand
  ExecuteScalar():Object, a weakly-typed method, and
  unboxes the result as Int32, a value type."
  Help       : "http://www.gotdotnet.com/team/fxcop/docs/rules.aspx?vers
```

2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

17

Questões



2004/2005

ADAV
Ambientes de Desenvolvimento Avançados

18