

Speedygonzales developing Open Web Studio

another way to fast develop modules in
DotNetNuke



| Build Rich Internet Applications Rapidly

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Who I'm?

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BIZCOM.IT is a
italian DNN focused web agency
that works with OpenWebStudio RAD

What's OWS ?

- An open source DotNetNuke Module
- An online RAD environment
- An exendible framework

What were OWS ?

- A commercial module from DNN marketplace
- It's called ListX in “form builder”...“data driven apps” categories...
- It's totally reengineered and now it's opensource

Why OWS ?

- It's the fastest way to develop DNN module I know
 - it's also for ASP.NET....
- It's combine developers & designers needs
- If a feature is missing we can extend it...
- E' Free e OpenSource ;)

More detail

- Perfect! for presentation layer modules
- Fantastic! for Ajax applications
- Super! for Webservice and remote services via WS, REST, XML..
- Cool! for developing, debugging.. LIVE (all is in a browser..!)

Some defects

- Not too easy to start with it
- Paradigm shift is needed in the approach
- Not well documented..
- Warning to spaghetti-code :)
- Will it continue develop ?

Installation

- <http://sourceforge.net/projects/r2iopenwebstudi/files/r2iopenwebstudio/>
- official website : www.openwebstudio.com
- install it as a common DotNetNuke extension (PA module)

Now I show it...

MenuLaterale - Open Web Studio 2.2.2

Home General Actions Tools About Community

Clipboard Configuration

Actions

Actions

Index Action

1. Assignment<Action>,gmenu to 0

2. □ Query[qtab]select dbo.ParentTabName([*TabId],[*PortalId]) as parenttabname, isnull(ParentId,-1) as ParentId from tabs where tabid=[*TabId]

3. + If[parenttabname,qtab] = Il Gruppo

4. + Else If[parenttabname,qtab] = Investor Relations

5. + Else If[parenttabname,qtab] = Corporate Governance

6. + Else If[parenttabname,qtab] = Sale Stampa

7. AssignmentCONTROL.HEADER.Variable Name to <script type="text/javascript"> \$(function(){ //

8. □ Query Template - select t.tabid, t.tabname, replace(t.tabpath,%

9. Header [0] Template - <div id="accordion">

10. Header [1] "[ParentTabName]" Template - <div {IIF, "[Par...

11. Detail Template - <i><IIF, "[TabId]=[*TabId]", "<u>*</u>">[TabName]<IIF, "[TabId]=[*TabId]", "</u>*</i>"> [SUBQUERY, Name="qSubTab", Query="select t.tabid as TabIdSub, t.tab

12. Footer [1] "[ParentTabName]" Template - </u> </div> </div>

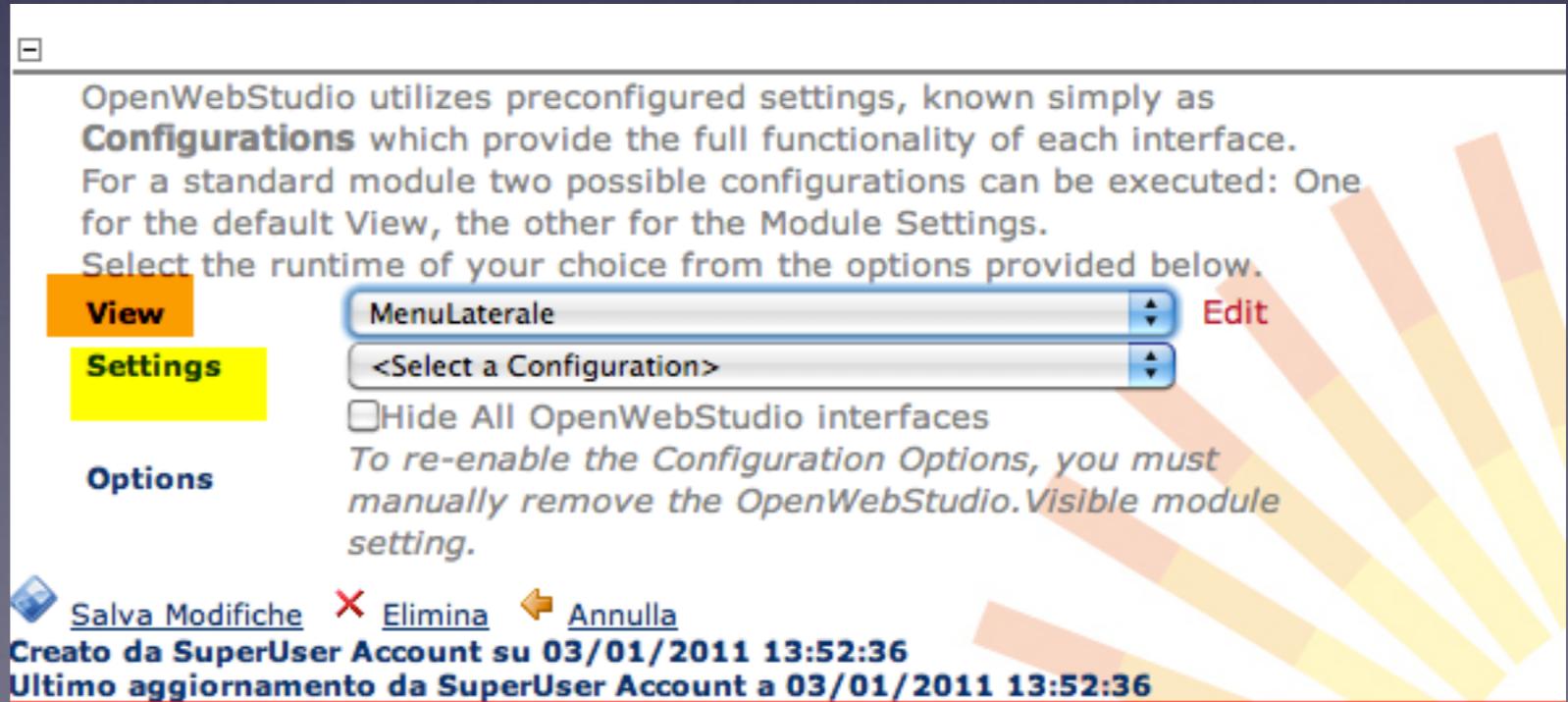
13. Footer [0] Template - </div>

14. No Query Template - <div id="accordion"> <div> <h3>Il Gruppo</h3> <div> <ul class="sublinks"> <i>Chi siamo

DEM O

Base concepts

- Each “software module” in OWS is a “Configuration”
- Each module instance of OWS module wrapper is dropped in a page and linked to a Configuration



Configuration

- General settings
- Code Tree
 - Actions (azioni, template...)
 - Script, Variables, Formatters
- persisted in DB in JSON
- versioning included !!

Actions

- Actions
 - execute command
 - execution flow
 - input / output
 - example : QUERY, INPUT, IF, LOOP...

Template

- Data source : Query Template
- Data presentation
 - header, footer, detail template....
 - no results, no query....
- Just one template per configuration

Script

- Action or command you can execute within the template
- syntax { ... }
- except [FORMAT,,{...}]

Template [15]

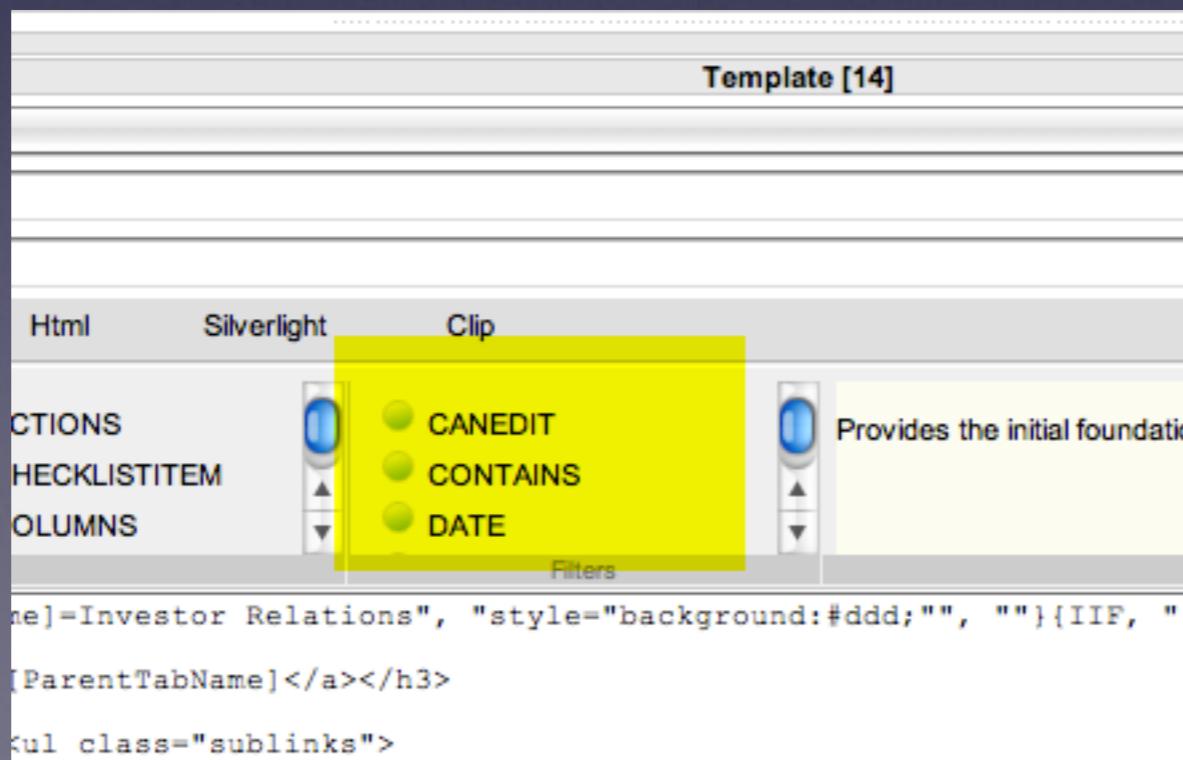
Template	Detail						
	<ul style="list-style-type: none">ScriptQueryHtmlSilverlightClip <table border="1"><tr><td>CHECKLIST</td><td>COLUMNS</td></tr><tr><td>COUNT</td><td>FORMAT (Pre)</td></tr><tr><td>FORMAT (Post)</td><td>IIF</td></tr></table> <p>Script Tags</p> <p>Content</p> <pre>{IIF, "[TabId]=[*TabId]", "<u>", ""}{SUBQUERY, Name="qSubTab", Query="select t.tabid as TabIdSub, t.tabname as TabNameSub, replace(t.tabp Header=<ul class='subsub'>", Footer=", NoResultFormat="", Format=[TabNameSub] SelectedFormat=<u>[TabNameSub]</pre>	CHECKLIST	COLUMNS	COUNT	FORMAT (Pre)	FORMAT (Post)	IIF
CHECKLIST	COLUMNS						
COUNT	FORMAT (Pre)						
FORMAT (Post)	IIF						

Hover over

CANEDIT
CONTAINS
DATE

Formatters

- You can transform a value to another...
- Apply anywhere to a script, template,....
- [FORMAT,value,{formatter}]



Variables

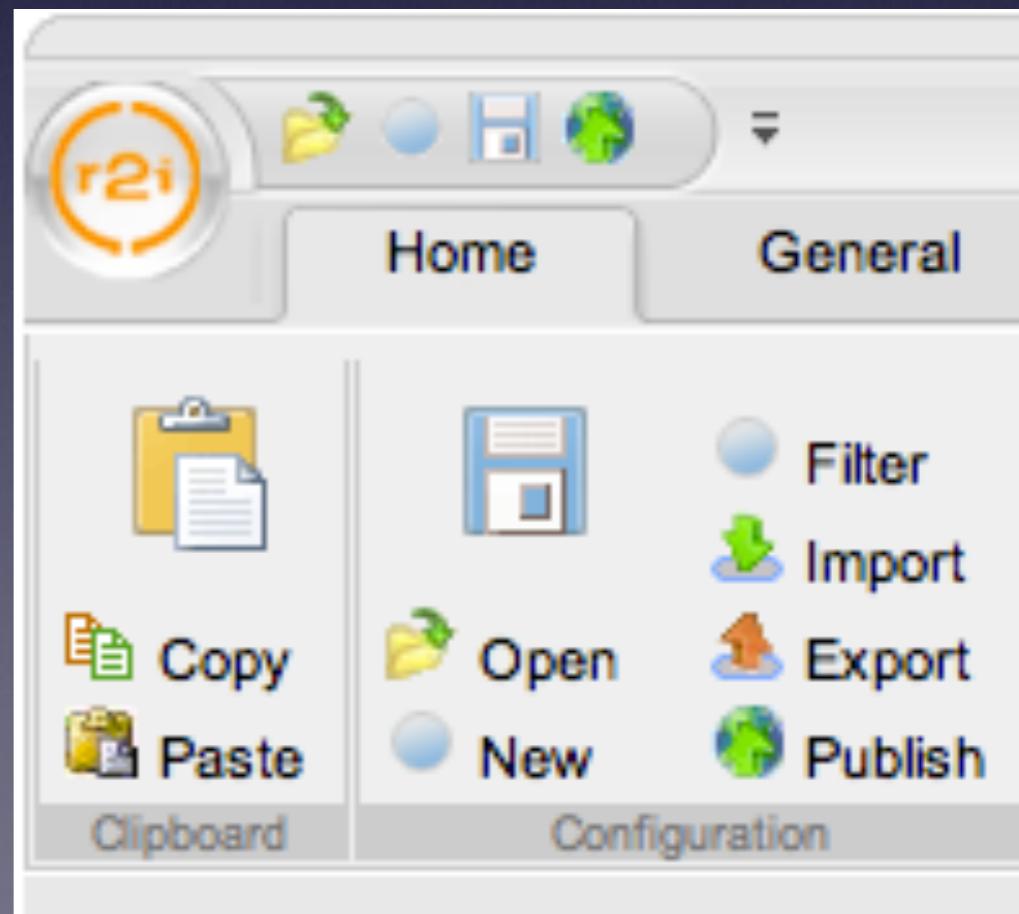
- Syntax [variablename, Collection]
- Some allowed namespaces (shortened) :
 - System (*) , e.g. [*TabId]
 - Session , QueryString (Q) ,Form (F)
 - Action (A) : custom variable..
- @variable :special types to allow parametric queries

OWS Environment : Actions



Home

- Configuration operations
 - new, open..
 - Import / Export (JSON)
 - Publish



General

General Properties [MenuLaterale]

Name: MenuLaterale

Id: 12940589-4884-3bcf-9d9e-0e93971f4e45 [\(How to use this?\)](#)

Paging Properties: Records per Page

Show All Records
 Show Records Per Page
 Show Page Selection
 Use Custom Paging

Filters and Sorting: Show Alphabetic Filter
 Allow Multi-column Sorting

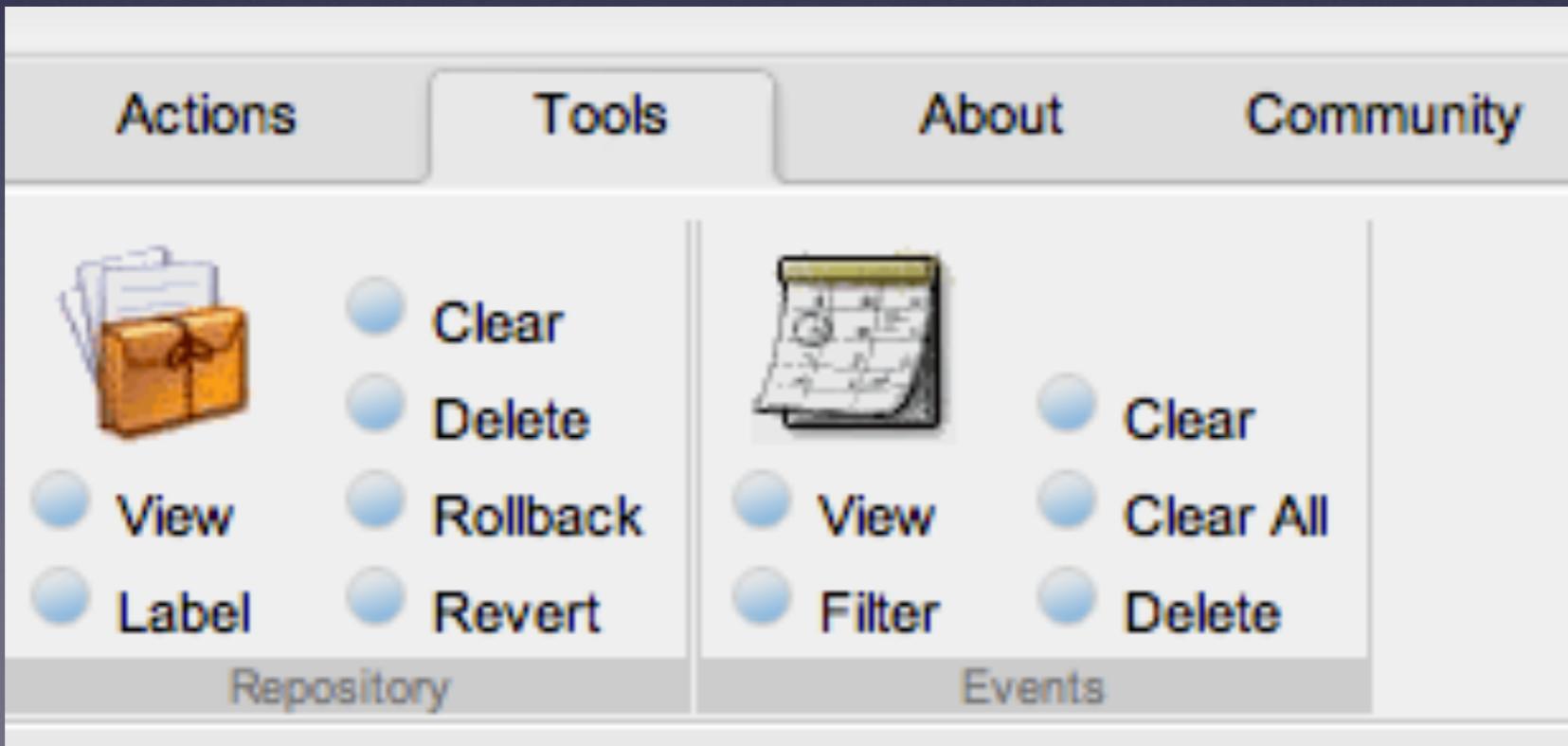
Ajax Integration: Enable Ajax Interaction
 Enable Ajax Interaction (Progressive Enhancement)
 Ajax Interaction - Manual Load
 Ajax Interaction - Custom Status
 Ajax Interaction - Custom Paging
 Ajax Interaction - Enable Ajax Page History
 Custom Page History Anchor Text
 Milliseconds between Automatic Refresh

Include: Utilities Javascript
 Validation Javascript
 JQuery
 JQuery Thickbox
 JQuery Thickbox Stylesheet

guid configurazione per usi avanzati

Tools

- Manage Code Repository
 - allow Revert & Rollback
- Debugger & Event Viewer



begin...

DEMO

- un modulo per editare le pagine in blocco
 - 1) autonomo...
 - 2) uso del query builder....

Presentazione

- Query Template (query in senso lato)
 - header (multiply... group by...)
 - detail
 - footer
 - no result
- No Query (per tutto il resto... :)

Comandi al DB

- Action QUERY
 - tutto è template....
 - accetta @variable (x Sql Injection)
 - query SQL o altro...
 - iteratore automatico..
 - crea [xxx,collection]
 - sotto sotto tutto è DataTable

Ajax

- Chiamate Ajax built-in
 - ows.fetch(ModuleId, TabId, 'querystring' [, container])
- due modalità
 - Ajax
 - Ajax Enhancement Interaction

Debugger

Event Detail

5/27/2011 12:47:20 AM - Page Load Request

Actions:[Expand/Collapse](#)

Original:[Expand/Collapse](#)

Actual:[Expand/Collapse](#)

Tables:[Expand/Collapse](#)

Statistics:[Expand/Collapse](#)

Runtime:[Expand/Collapse](#)

Headers:[Expand/Collapse](#)

Querystring:[Expand/Collapse](#)

Form:[Expand/Collapse](#)

Session:[Expand/Collapse](#)

Cookies:[Expand/Collapse](#)

ViewState:[Expand/Collapse](#)



DEMO

Extendibility

- you can create custom Action, Formatters, Query...
- openwebstudio.dotnetnuke_extensions.config

```
<openwebstudio>
  <queries>
    <run name="dotnetnuke_portals" type="r2i.OWSWrapper.DNN.Extensions.Queries.Portals, r2i.OWSWrapper.DNN
      <run name="FILEDOWNLOAD" type="r2i.OWSWrapper.DNN.Extensions.Queries.FileDownload, OWSFileDownload" />
    </queries>
    <formats>
      <run name="encodednn" type="r2i.OWSWrapper.DNN.Extensions.Formatters.EncodeDNN, r2i.OWSWrapper.DNN.Extensions.Formatters.DecodeDNN" />
    </formats>
  </openwebstudio>
```

My Needs :
dynamic template &
very rapid feature
creation

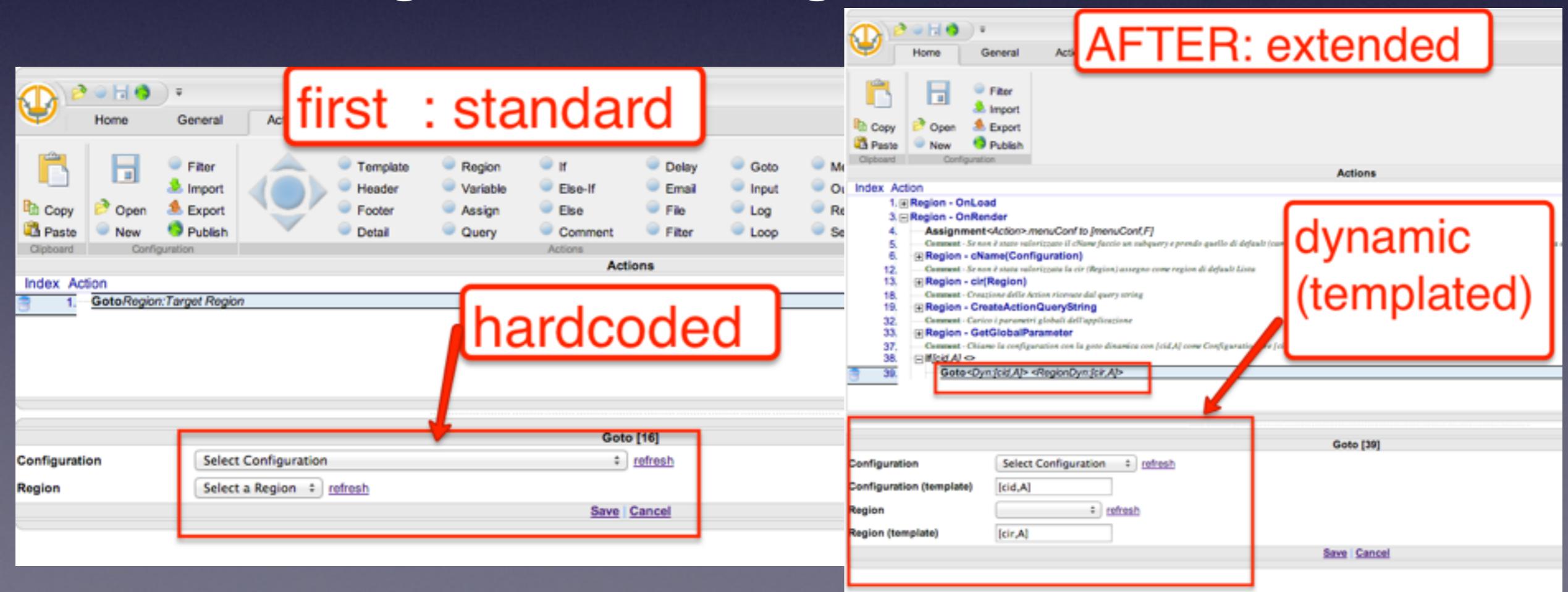
What I wanted about configurations

- GoTo Configuration Action is very powerful
 - call specific Region on a Configuration by another one
 - but witch Region&Configuration is hard coded (similar a Method Call) while what I need is a dynamic calling (similar to a Reflection Method Calling)

Speedygonzales

Development :)

- I forked OpenWebStudio updating only few files
 - introducing templating on “Go-To” action both in ConfigName and RegionName



A Rapid Framework Development

- Dynamic Configuration Invocation allows to design a framework to fast develop extranets or websites
 - create OWS containers which dynamically load correct contents
 - use OWS configurations like reusable building blocks invocable as a reflection method calling
 - create dynamic template parts loaded based on specific conditions...

An Example : Posta Power

The screenshot shows the Posta Power application interface. At the top, there is a navigation bar with tabs: COMMERCIALE (highlighted in red), OPERATIVO, AMMINISTRATIVO, GESTIONE AGENZIA, CONFIGURAZIONI, and AGGIUNGI MODULO. A red box labeled "tabs (normal dnn menu)" points to the COMMERCIALE tab. Below the tabs, there is a toolbar with buttons for CONTATTI, ATTIVITÀ, and TRATTATIVE, each with a corresponding icon (people, pencil, euro sign). A red box labeled "toolbar (custom menu)" points to the ATTIVITÀ button. The main view area contains a section titled "CRONOLOGIA" with a list of tasks:

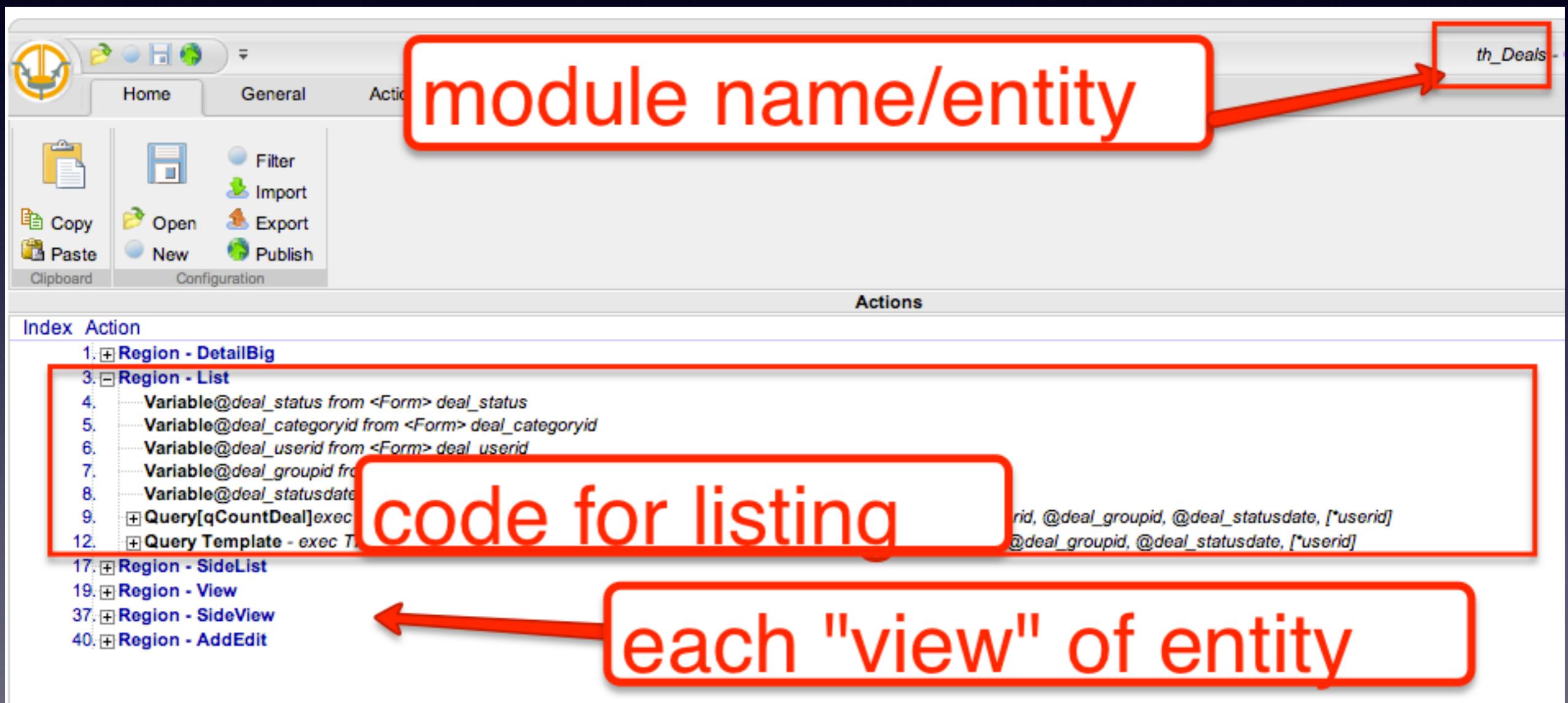
- Primo Task
Creato il 16/05/2014 11:39:05 - Creato da: silvia nuciforo
- test attività da completare
Creato il 16/05/2014 11:38:32 - Creato da: silvia nuciforo
- test
Creato il 16/05/2014 11:36:02 - Creato da: silvia nuciforo

Each task has a small orange square icon next to it, labeled "Attività completata". A red box labeled "mainview" points to the "CRONOLOGIA" section. To the right, there is a sidebar titled "sideview" with three items:

- CREA NUOVA ATTIVITÀ
- VEDI ATTIVITÀ IN CORSO
- VEDI ATTIVITÀ SCADUTE

A red box labeled "sideview" points to the first item. At the top right of the screen, there are user profile icons for "silvia nuciforo" and a "Logout" link.

Structure of a SpeedyGonzales Module



Deals module: “trattative”

/Commerciale?cName=th_Deals

COMMERCIALE OPERATIVO AMMINISTRATIVO GESTIONE AGENZIA CONFIGURAZIONI AGGIUNGI MODULO

Commerciale

commerciale Aggiorna

CONTATTI ATTIVITÀ TRATTATIVE €

TRATTATIVE th_Deals>List

3 Trattative valore 4020 €

€ UNA TRATTATIVA A BUONFINE
Categoria: test Riferito a: nuovo contatto Valore: 20 € In corso

€ TRATT ROB
Categoria: Cat Deal Riferito a: Roberto Piangerelli Valore: 1000 € In corso

€ TEST DEAL FRA
Categoria: offerta Riferito a: Marco Valore: 3000 € In corso

th_Deals:SideList

€ AGGIUNGI TRATTATIVA

RICERCA AVANZATA:

Categorie: Tutte le categorie

Assegnate a: Tutti gli utenti

Stato: In corso

?

^

✓

Deals module: add new

COMMERCIALE OPERATORE AGGIUNGI MODULO

commerciale Aggiorna

CONTATTI ATTIVITÀ TRATTATIVE €

€ NUOVA TRATTATIVA

Nome della trattativa

Di chi è questa trattativa? Scrivi il nome del contatto o cliente

Quanto? € Compenso fisso

Categoria test AGGIUNGI NUOVA

Descrizione trattativa

AGGIUNGI DEAL ANNULLA

th_deals:addNew

AGGIUNGI TRATTATIVA

RICERCA AVANZATA:

Categorie Tutte le categorie

Assegnate a: Tutti gli utenti

Stato: In corso

The screenshot shows a deals management interface. At the top, there are tabs for 'COMMERCIALE', 'OPERATORE', and 'AGGIUNGI MODULO'. Below these are buttons for 'commerciale' and 'Aggiorna'. There are also buttons for 'CONTATTI', 'ATTIVITÀ', and 'TRATTATIVE' (which is highlighted with a red box). A red box also surrounds the URL 'th_deals:addNew' at the top of the page. The main area contains a form titled '€ NUOVA TRATTATIVA' with fields for 'Nome della trattativa', 'Di chi è questa trattativa?', 'Quanto?' (with a dropdown for 'Compenso fisso'), 'Categoria' (with a dropdown for 'test' and a 'AGGIUNGI NUOVA' button), 'Descrizione trattativa', and two buttons 'AGGIUNGI DEAL' and 'ANNULLA'. To the right of the form is a sidebar with a 'RICERCA AVANZATA:' section containing 'Categorie' (dropdown for 'Tutte le categorie'), 'Assegnate a:' (dropdown for 'Tutti gli utenti'), and 'Stato' (dropdown for 'In corso'). Three circular navigation icons are also present in the sidebar.

Deals module: AddEdit

The screenshot shows a software interface for managing deals. At the top, there's a toolbar with icons for Home, General, Actions, About, and Community. Below the toolbar, a menu bar includes options like Filter, Import, Export, and Publish. The main area features a search bar with fields for Name/Guid, Date, and Created/Updated status, along with Search and Cancel buttons. On the left, a tree view displays regions: 'Region - Overview' (closed), 'Region - AddEdit' (open), and 'No Query Template'. The 'Region - AddEdit' node has several child nodes, including 'Assignment<Action>.script_autocomplete' and 'Assignment<Action>.Section to Deal'. A red box highlights the 'Region - AddEdit' node and its children. A red arrow points from this highlighted area to a red box labeled 'AddEdit Region'. Another red arrow points from the 'th_Deals' entry in the top right corner to the same red box.

AddEdit Region

```
40: □ Region - AddEdit
41: Assignment<Action>.script_autocomplete to <script> $widget("custom.catcomplete", $ui.autocomplete, {_renderMenu: function (ul, items) { var that = this,
42:     + If[Action,A] = AddEdit
43:     + Else If[Action,A] = Delete
44:     + If[EntityID,A] <>
45:     - Else
46:         + If[RecordSecurity,A] = 1
47:             Assignment<Action>.Section to Deal
48:             GotoConfiguration:th_MainWidget Region:CategoryPanel
49:     - [script_autocomplete,A]
50:     <div id="thcrm" class="mainContainer">
51:         <h1 class="mainTitle"> Nuova trattativa</h1>
52:         <div class="riga_campi" style="border-top: 1px solid #ccc; border-bottom: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">
53:             <div class="fr half" style="border-right: 1px solid #ccc; padding-right: 10px; margin-right: 10px;">
54:                 <input type="text" id="deal_dealname" name="deal_dealname" value="" class="large" maxlength="50" />
55:                 <div class="fr half" style="border-left: 1px solid #ccc; padding-left: 10px; margin-left: 10px;">
56:                     <span> Di chi è questa trattativa? </span>
57:                     <span class="normal small"> <label for="deal_contactname" class="fieldlabel">Nome della persona </label> <input id="deal_contactname" name="deal_contactname" value="{SUBQUERY, Name=qGetContactName, ContactID=deal_dealname, ContactType=Person, OrderBy=Name}" type="text" />
58:                 </div>
59:             </div>
60:         </div>
61:         <div class="riga_campi" style="border-bottom: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">
62:             <div class="fr half" style="border-right: 1px solid #ccc; padding-right: 10px; margin-right: 10px;">
63:                 <input type="text" id="deal_startdate" name="deal_startdate" value="" class="large" />
64:                 <div class="fr half" style="border-left: 1px solid #ccc; padding-left: 10px; margin-left: 10px;">
65:                     <span> Data di inizio </span>
66:                     <span class="normal small"> <input type="text" id="deal_startdate_text" name="deal_startdate_text" value="" class="small" /> </span>
67:                 </div>
68:             </div>
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73:                 <div class="fr half" style="border-left: 1px solid #ccc; padding-left: 10px; margin-left: 10px;">
74:                     <span> Data di fine </span>
75:                     <span class="normal small"> <input type="text" id="deal_enddate_text" name="deal_enddate_text" value="" class="small" /> </span>
76:                 </div>
77:             </div>
78:         </div>
79:     </div>
80: 
```

Deals module: AddEdit

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76:                 </div>
77:             </div>
78:         </div>
79:     </div>
80: 
```

Adding a New Module Is a 5 seconds activity

Configurazione amministrativo

		DESCRIZIONE	IMMAGINE	ORDINAMENTO	VISIBILEMENU	CONFIGURATIONNAME
Modifica	Elimina	Storia Amministrativo		0	<input type="checkbox"/>	th_Dashboard_Amministrativo
Modifica	Elimina	Clienti		1	<input checked="" type="checkbox"/>	th_Contact_Amministrativo
Modifica	Elimina	Fatture		2	<input checked="" type="checkbox"/>	pp_conf_fatture

Aggiungi un nuovo Modulo OWS

NOME CONFIGURAZIONE:

SCEGLI IL MENU: --Scegli un menu--
commerciale
operativo
configurazioni
gestioneagenzia
amministrativo

NOME DELLA VOCE DI MENU:

AGGIUNGI NUOVO MODULO

Conclusions

- Very Rapid Development
- Online, perfect for coding in a team
- Powerfull, High Performance, Extendible, Fast

QUESTION?



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