



Oracle Portal Case Studies

SAGE Computing Services
Customised Oracle Training Workshops
and Consulting
www.sagecomputing.com.au

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www.sagecomputing.com.au

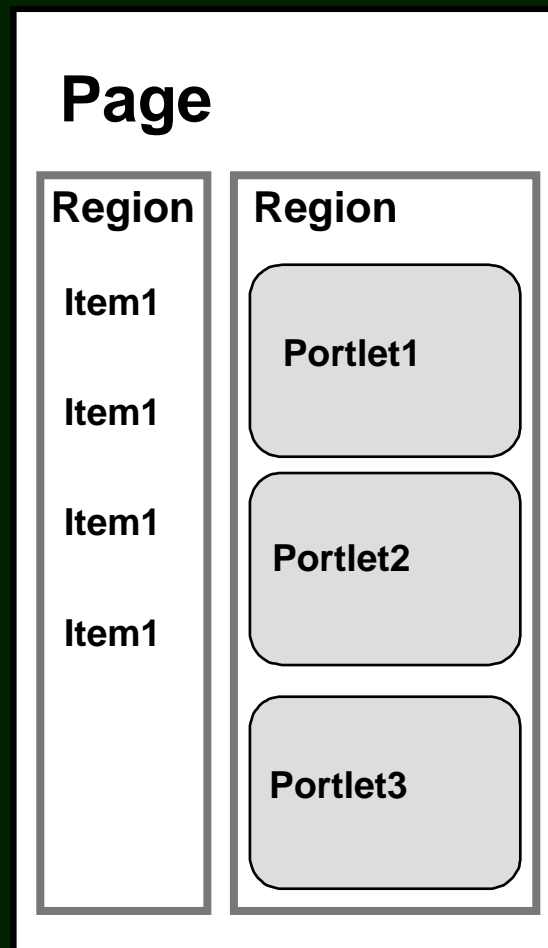
Agenda

- ✦ Concepts
- ✦ Developing a portal interface
- ✦ Managing content
- ✦ Using the API
- ✦ Single sign on
- ✦ Integrating diverse applications
- ✦ Portal applications
- ✦ Searching the portal



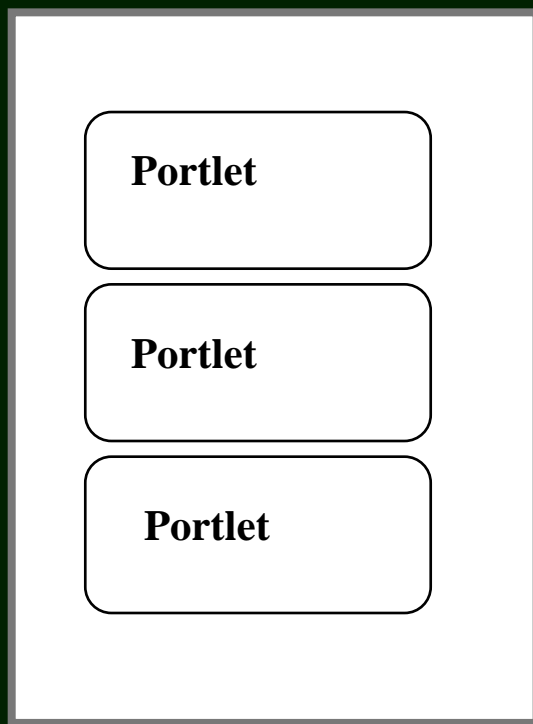
Concepts - Pages

- ◆ Pages display various types of information
- ◆ Pages are split in Regions
- ◆ Each Region can contain one or more Portlets or Items
- ◆ A page may be assigned a style
- ◆ Users can be granted access to one or more pages
- ◆ Pages can be structured in a hierarchy

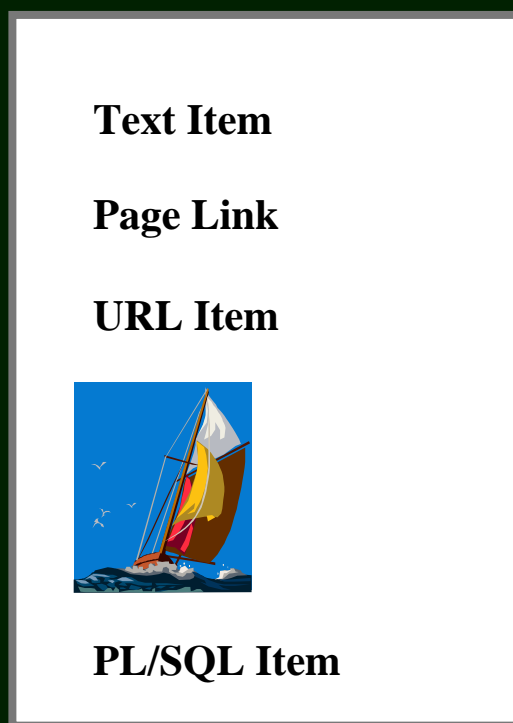


Regions

Portlet Region



Item Region





Item Types

- ◆ File
- ◆ Text
- ◆ URL
- ◆ Page Link
- ◆ PL/SQL
- ◆ Image
- ◆ Zip File
- ◆ Simple File
- ◆ Simple Text
- ◆ Simple URL
- ◆ Simple Page Link
- ◆ Simple PL/SQL
- ◆ Simple Image
- ◆ Simple Image Map



Portlets

- ◆ Built-in portlets that are available with the product, e.g. Favourites list
- ◆ Pages can be published as portlets
- ◆ Application components can be published as portlets
- ◆ Program your own portlets
- ◆ Partner portlets

Developing a Portal Interface



Recommendation

- ✦ For a dynamic site use experienced Portal developers for the initial setup
- ✦ After initial set up you don't need much IT experience
- ✦ Users can maintain the site without IT bottleneck



Portal Myths

- ◆ Oracle Portal sites always look ugly
- ◆ Navigation is clumsy
- ◆ The interface is restricting

Portal Design-Time Pages - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back

Search

Favorites

Media

Address http://sage2.sagecomputing.com.au:7778/portal/page?_pageid=6,1,6_11&_dad=portal&_schema=PORTAL Go Links

Portal Design-Time Pages

Community

Navigator

Home

Help

Refresh

Edit

Customize

Account Info

Logout

Build

Administer

Administer Database

Recent Objects

Customize

CAL_0406135814

Calendar

CHART_0406133631

Sql Chart

HIE_0406133444

Hierarchy

RPT_emp

Sql Report

DYN_0406132527

Dynamic Page

Developer News

Customize

This portlet is designed to pull news and announcements from the [Oracle9iAS Portal Studio](#) site. You can enable this feature by setting your proxy server under Proxy Settings on the Administer tab. This version requires a proxy server be set.

If your proxy is already set and your computer is on the Internet, you can re-enable this feature by clicking the Customize link of this portlet.

Page Groups

Page Group

View

Edit

Create

Select the page group with which you want to work. You can then view the page group, edit its properties, or click one of the links below to create a page, style, or template in the page group.

Create a Page

Use a step-by-step wizard to create a new page in the page group selected above. Pages let you aggregate content from a multitude of sources.

Create a Style

Use a step-by-step wizard to create a new style that can later be used to build pages. The style is created in the page group selected above.

Create Page Template

Use a step-by-step wizard to create a new page template that can later be used to build different pages. The template is created in the page group selected above.

Edit Page

To view or edit a page, click the browse icon and select from the list provided.

Name

View

Edit

Mobile Enabling your Pages

Learn about designing and using your portal with mobile devices.

Providers

Register a Portlet Provider

Register a portlet provider to the list of providers.

Edit a Portlet Provider

Enter a provider name, then click Edit.

Name

Edit

Delete

Provider Group

Add a Provider Group

Register a provider group for use with Portal.

Edit a Provider Group

Click the browse icon, select a provider group from the list, then click Edit.

Name

Edit

Database Providers

Create a Database Portlet Provider

Use a one-step wizard to create a new Database Portlet Provider. Build components like menus, forms, and reports and link them together.

Edit a Database Portlet Provider

Select from a list of existing Database Portlet Providers, or type in the name of one you know. Edit a Database Portlet Provider, or choose one of the actions that appear below.

Name

Navigate

Edit

Internet

Quick Tips

What do you want to do?

- Build pages: Click the Build tab.
- Browse portal objects: Click Navigator at the top of any page.
- Set up the portal: Click the Administer tab.

Documentation



Read the [Release Notes](#) and other helpful [documentation](#) for important information about OracleAS Portal.

Welcome PORTAL to OracleAS Portal

New to Portal?

Getting Started with OracleAS Portal on Portal Center



Design *your Portal*

[Learn How](#)

Add Content *to your Portal*

[Learn How](#)

Administer *your Portal*

[Learn How](#)

Community



portalcenter.oracle.com
Join our online community. Share portlets, tips and tricks, view the Portal Catalog, and get the latest version of the PDK.

Portal and the Industry



www.oracle.com/portal
Great information about OracleAS Portal: Events, customer stories, analyst reviews and much more...

A Portal is Made up of Page Groups...

Building Blocks of the Page Group

Hierarchy of Pages

Security
Root Page

Anatomy of a Page

Regions

Portlets

Reusable Objects

Layout and Appearance

Content Attribution

Key Portal Concepts

Navigation Pages

Custom Page Types

Department of Environment - Welcome - Microsoft Internet Explorer

FileEditViewFavoritesToolsHelp


Back

Search

Favorites

Media

Addresshttp://portal.environment.wa.gov.au/portal/page?_pageid=233,1&_dad=portal&_schema=PORTALGoLinks




Department of Environment


Welcome to the Department of Environment

Advanced Search


Information Centre | Current Issues | Emergency Response | Related Sites



Air



Land



Water

Home

Air

Land

Water

Regional Information

General Regional Info

Kwinana Peel

Mid West Gascoyne

North West

South Coast

South West

Swan Goldfields

Agricultural

Information for . . .

Corporate Information

Enforcement

Pollution Response

Media Releases

Information Centre

Licences / Permits / Forms

Minister

Swan River Trust

EPA

Regional Information

Working with the community

Tools, systems and data

Media, publications and adverts

Education programs

Policies


The new agency

The State Government has created a new integrated environmental protection and natural resource management agency for Western Australia. The Department of Environmental Protection and the Water and Rivers Commission are now operating as the Department of Environment.

The new agency's key roles in resources assessment and allocation, coupled with strong environmental protection powers, ensure sustainable use of resources for responsible development.

Our Vision

A healthy environment and sustainable use of water resources for the benefit of present and future generations.



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Internet

National - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail W

Address http://www.sjog.org.au/portal/page?_pageid=415,1&_dad=portal&_schema=PORTAL Go Links

 **Justice** Search GO

Home About Us News and Events Publications Careers Divisions Contact Us Find

You are at: National

Login

Current News

[Private health group backs action on Aboriginal Health](#)
\$3.5 million investment in programs

[BGC wins tender for \\$130 million](#)
Redevelopment at Subiaco and Murdoch

[Nepean Rehabilitation Hospital changes hands](#)
Acquisition of hospital in Melbourne

[Current newsletter - May 2004](#)

*Welcome to
St John of God
Health Care*

*Caring that
little bit more...*



Welcome

Welcome to St John of God Health Care - one of the largest not for profit providers of health care in Australia, and a prominent Catholic health care organisation with operations in Western Australia, Victoria and New South Wales. We are proud to continue the tradition of compassionate care of the Sisters of St John of God, who began their dedicated work in Australia in 1895. As we strive to carry on their legacy, we aim to provide holistic care services that promote life to the full by enhancing the physical, intellectual, social and spiritual dimensions of being human.

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Done Internet



Interface Recommendations

- ◆ Avoid the Portlet rectangle approach
- ◆ Get a good graphic designer
- ◆ Use a limited set of Styles
- ◆ Use Templates
- ◆ Use Navigation Pages for content in Templates



Navigation Styles

◆ Tabs

- ◆ Use tabs for intranet sites to access applications

◆ Drill down the page hierarchy

◆ Custom navigation controls

- ◆ Need to be flexible
- ◆ Need to be easy to maintain

◆ Use drop down menus for internet sites

- ◆ Based on page hierarchy
- ◆ Based on perspectives



Site 1 - St John of God Health Care

- ◆ One of the largest not for profit providers of health care in Australia
- ◆ Operations in WA, Victoria and New South Wales
- ◆ Business Requirements
 - ◆ The site must be visually attractive
 - ◆ The site must reflect the organisation's values
 - ◆ The site must be easy to navigate
 - ◆ 12 Divisions
 - ◆ Some common interface components
 - ◆ Some specific interface requirements
 - ◆ The site structure will change as more divisions are added
 - ◆ No coding changes when pages added or removed

National - Microsoft Internet Explorer

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Search GO

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Hospitals
Diagnostic

Ballarat
Berwick
Bunbury
Geelong
Geraldton
Goulburn
Murdoch
Subiaco
Warrnambool

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http://www.sjog.org.au/pls/portal/URL/PAGE/NATIONAL/DIVISIONS/HOSPITALS?p_division=NATIONAL Internet

**Three level
Javascript
top menu**

Subiaco - Microsoft Internet Explorer

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Back Forward Stop Home Search Favorites Media Mail Print W Yellow

Address http://www.sjog.org.au/portal/page?_pageid=422,1&_dad=portal&_schema=PORTAL&p_division=SUBIACO Go Links

Justice Search GO

ST JOHN OF GOD SUBIACO
HEALTH CARE

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You are at: Subiaco

Login

Subiaco Home
About Us >
Contact Details
Social Outreach
Patient eCard
Visitor Information >
Patient Information >
Doctor Information >
Services
Nursing at SJGHC >
Current Vacancies
News and Events >
Becoming Involved >
Links

Welcome to Subiaco

Admission
Services During Your Stay
Room Facilities
Rights and Responsibilities

Welcome to St John of God Health Care Subiaco

St John of God Health Care Subiaco was established in 1897. Today it has 485 beds and is one of Australia's leading private hospitals, providing a comprehensive range of general and specialist medical and surgical services. More than 600 medical practitioners are accredited to practise at the hospital and a full range of on-site specialty diagnostic services are available. The purpose-built Subiaco Clinic contains medical consulting rooms, operating facilities, library and conference centre facilities, and a chemotherapy unit.

Current News

BGC wins \$130m construction tender
Redevelopment project at Subiaco and Murdoch to start late May 2004.

Leading the way in cancer services
Minister for Health - McGinty announces Cancer Centre

Redevelopment Newsletter
Monthly newsletter updating the redevelopment project.

Ballarat | Berwick | Bunbury | Geelong | Geraldton | Goulburn | Imaging | Murdoch | National Office | Pathology | Subiaco | Warrnambool

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http://www.sjog.org.au/pls/portal/URL/PAGE/SUBIACO/PATIENT_INFORMATION?p_division=SUBIACO Internet

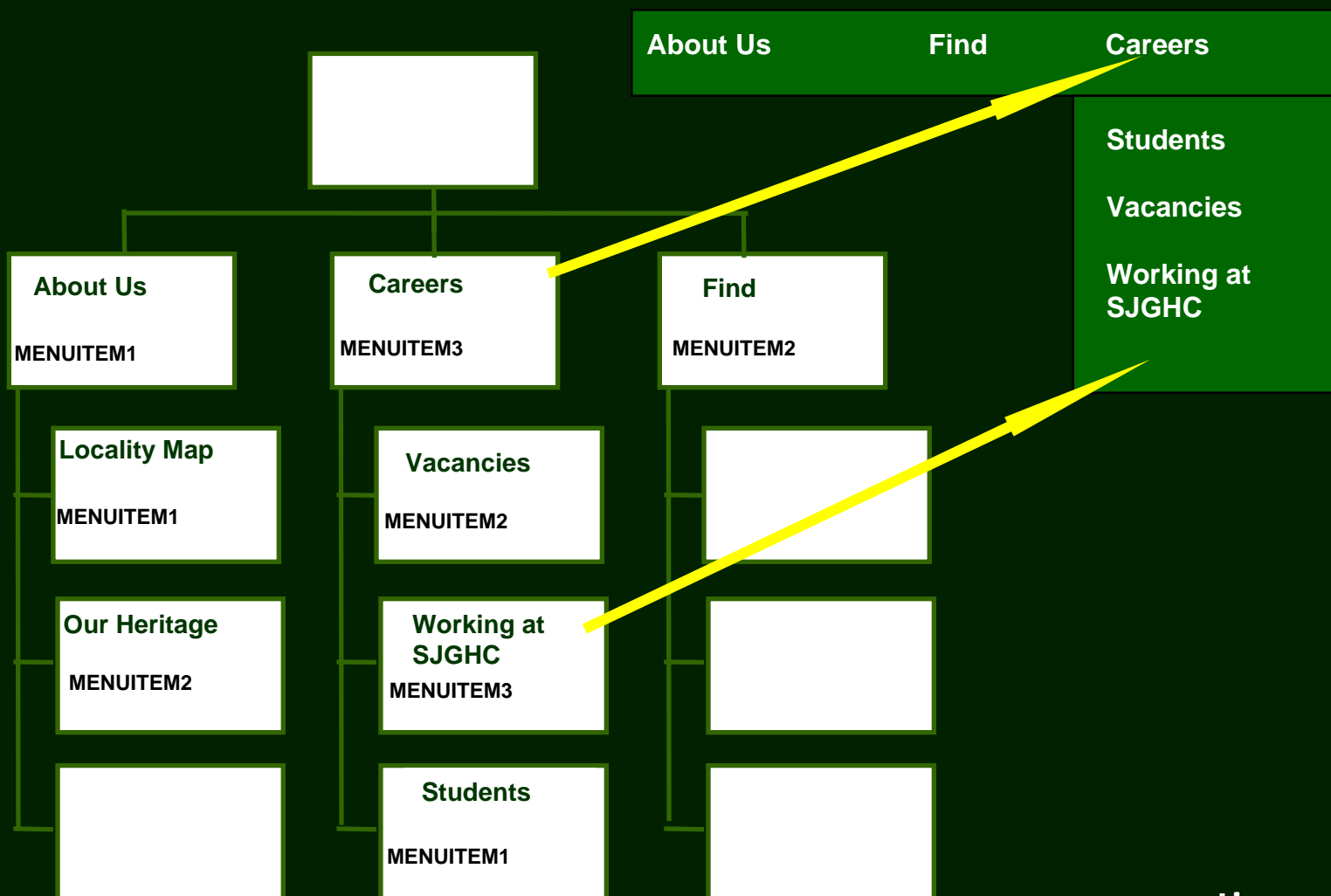
Two level
Division
specific
Javascript
side menu



Site 1 – Technical Solution

- ◆ Javascript menus
 - ◆ National menu
 - ◆ Division specific menus
- ◆ Menu created as PL/SQL portlet
- ◆ Menu structure dynamically selected from the portal repository
- ◆ Only pages with a category of Menuitem n are included
- ◆ The n indicates the position in the menu

Dynamic Navigation Menu





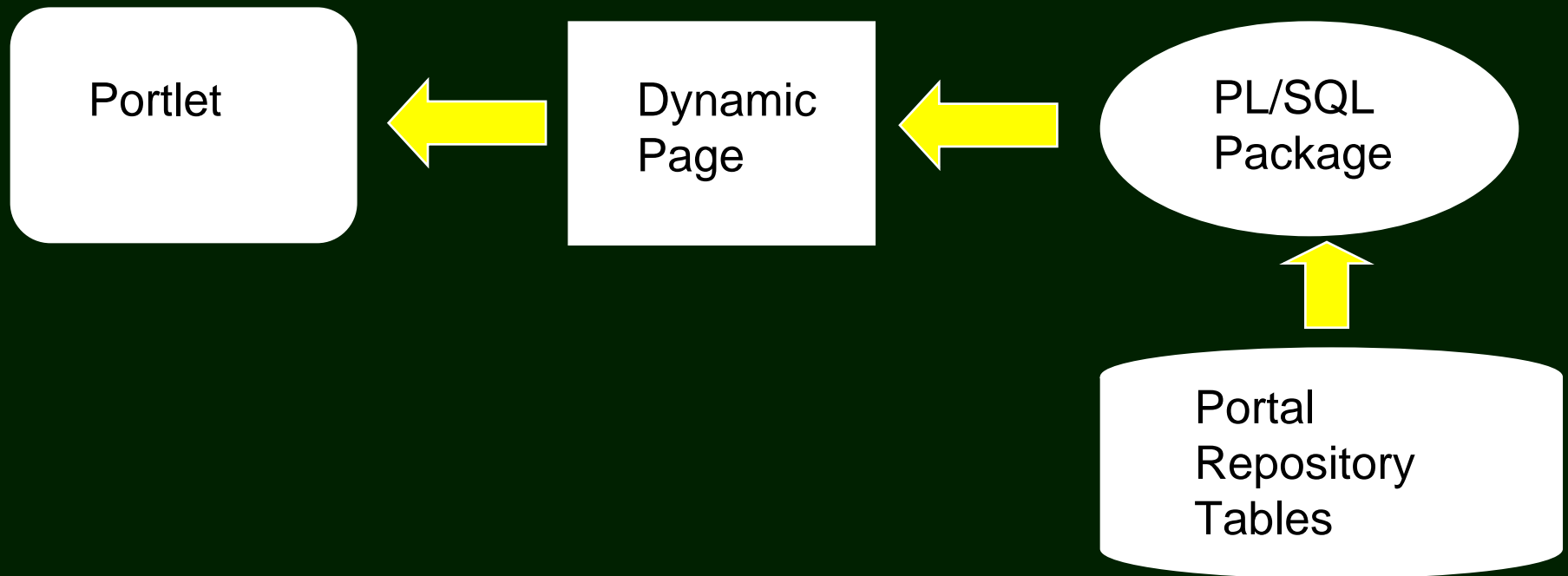
Recommendations

- ◆ Use the API where possible
- ◆ Its OK to select from portal tables
- ◆ You will need to retest the code when you upgrade
- ◆ Its not OK to manually update the portal tables
- ◆ Check the primary keys of tables
(They may include site, language and subscriber id)



PL/SQL Portlets

- ◆ Use PL/SQL for simple dynamic portlets that access the repository tables





Custom Navigation Solution

- ◆ Fetches three levels of the page hierarchy
- ◆ Preserves security

```
menu_mgt.pks - Notepad
File Edit Format View Help

CURSOR c_menu (p_page_group wwvob_page$.name%TYPE) IS
SELECT f1.title title1, substr(t1.name,9) num1,
       decode(null,null,'URL/PAGE/'||s.name||'/'||f1.name) url1,
       f2.title title2, substr(t2.name,9) num2,
       decode(null,null,'URL/PAGE/'||s.name||'/'||f1.name||'/'||f2.name) url2,
       f3.title title3, substr(t3.name,9) num3,
       decode(f3.id,null,null,'URL/PAGE/'||s.name||'/'||f1.name||'/'||f2.name||'/'||f3.name) url3
FROM   wwsbr_sites$ s, wwv_user_corners f0, wwv_user_corners f1, wwv_user_corners f2, wwv_user_corners f3,
       wwv_topics t1, wwv_topics t2, wwv_topics t3
WHERE  s.id = f1.siteid
AND    s.id = f0.siteid
AND    f0.name = p_page_group
AND    f0.id = f1.parentid
AND    f1.siteid = f2.siteid(+)
AND    f2.siteid = f3.siteid(+)
AND    f1.id = f2.parentid(+)
AND    f2.id = f3.parentid(+)
AND    f1.topid = t1.id
AND    f2.topid = t2.id(+)
AND    f3.topid = t3.id(+)
AND    f1.subscriber_id(+) = f0.subscriber_id
AND    f2.subscriber_id(+) = f1.subscriber_id
AND    f3.subscriber_id(+) = f2.subscriber_id
AND    s.name = p_page_group
AND    t1.name like 'MENUITEM%'
AND    t2.name(+) like 'MENUITEM%'
AND    t3.name(+) like 'MENUITEM%'
ORDER BY to_number(num1), to_number(num2), to_number(num3);
```



Images - Business Requirement


- ◆ Single overall look and feel for all divisions
- ◆ Divisions have their own logos
- ◆ Images must be easy to change

National - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail W

Address http://www.sjog.org.au/portal/page?_pageid=415,1&_dad=portal&_schema=PORTAL Go Links

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Current News

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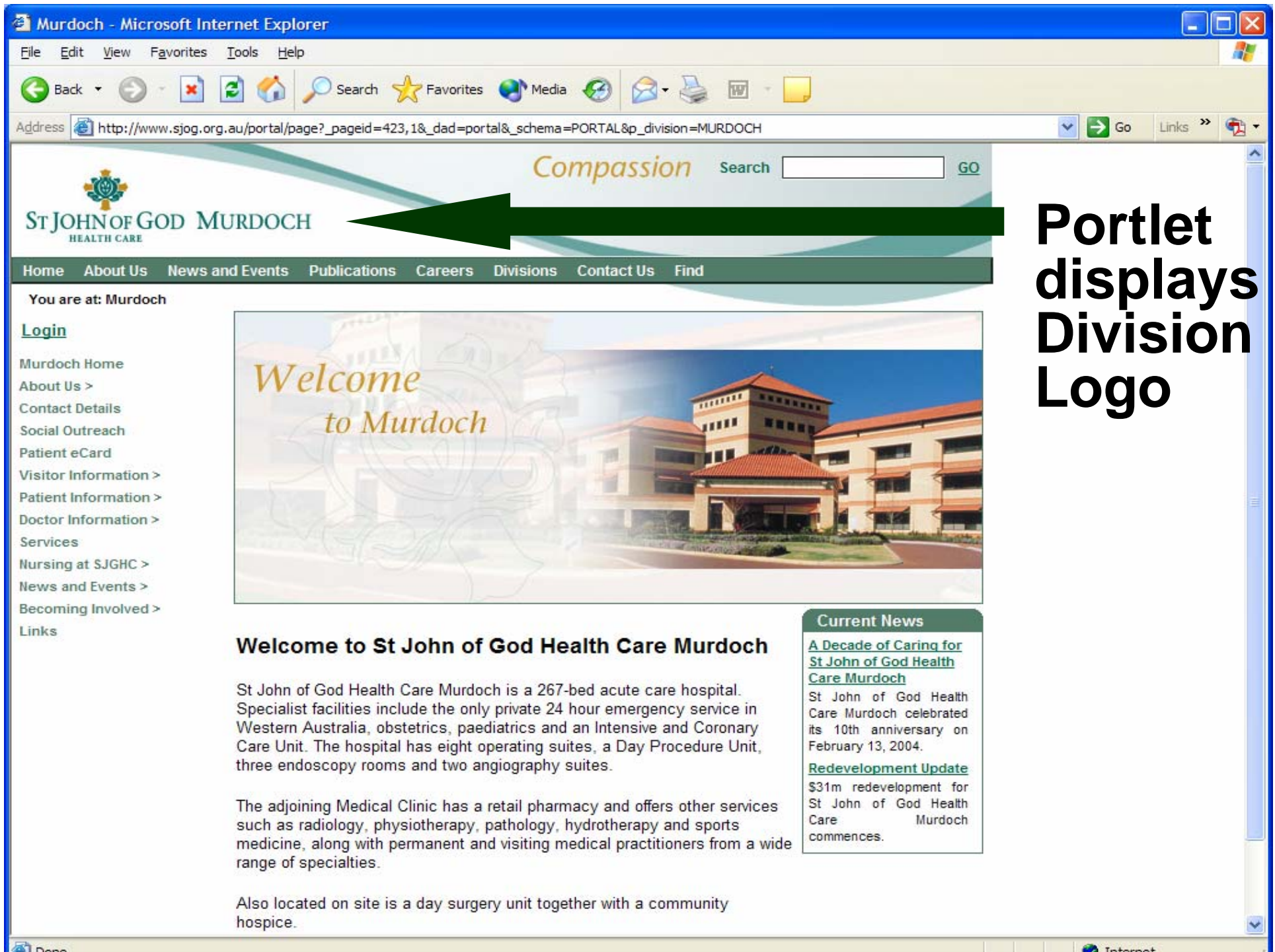
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Done Internet

Portlet
displays
National
Logo

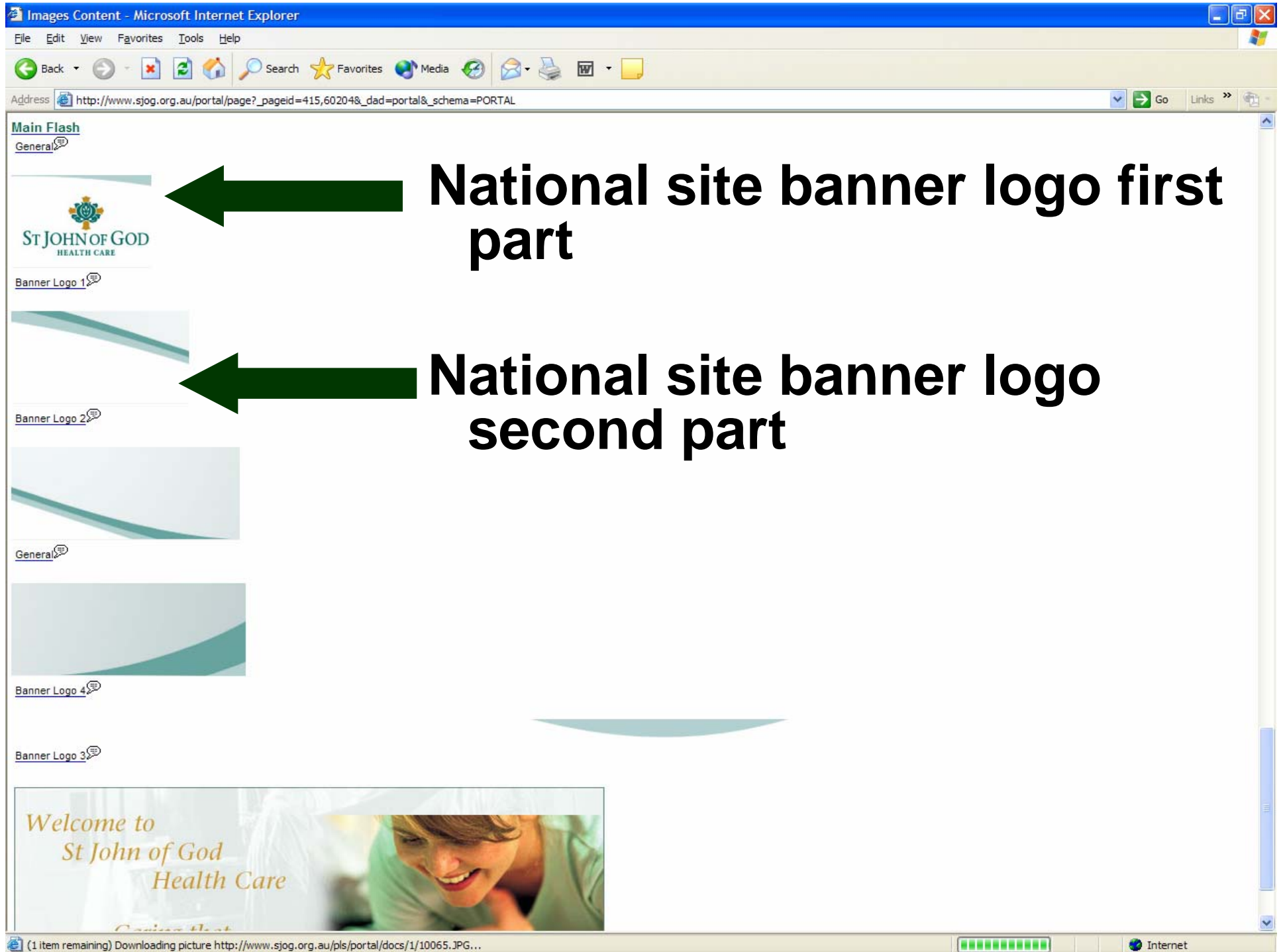


Portlet
displays
Division
Logo



Managing Common Images

- ◆ Create all images as items in a page allocated for that purpose
- ◆ Reference from other pages
- ◆ Do not use the image url
- ◆ Use Perspectives to select particular images
- ◆ Example:
 - ◆ One page group per Division
 - ◆ Each Division stores images in Portal with Perspective = BANNER_LOGOn
 - ◆ Dynamic portlet – Get the image url for a specific Division and Perspective



Dynamic Navigation Page

The Dynamic Banner portlet contains the following:

```
menu_mgt.image_url('BANNER_LOGO4','NATIONAL')
menu_mgt.image_url('BANNER_LOGO2',:p_division)
```



```
menu_mgt.image_url('BANNER_LOGO1',:p_division)
```

Flash file: docs/PAGE/NATIONAL/CONTENT/IMAGES_CONTENT/FLASH.SWF

```
menu_mgt.generate_top_menu('NATIONAL',:p_division);
```

```
-- get an image url given the perspective
-- used to display standard images in the banner
FUNCTION image_url (p_perspective IN wwv_perspectives.name%TYPE := 'TOP_BANNER'
                   ,p_page_group IN wwvob_page$.name%TYPE := 'NATIONAL'
                   ,p_image_tag IN BOOLEAN := TRUE)
RETURN VARCHAR2
IS
    v_url    VARCHAR2(1000);
    v_image   wwv_things.image%TYPE;

    CURSOR c_image (p_page_group IN wwvob_page$.name%TYPE) IS
    SELECT t.image
    FROM   wwv_things t
           ,wwsbr_sites$ s
           ,wwv_thingsperspectives tp
           ,wwv_perspectives p
    WHERE  t.siteid      = s.id
    AND    s.name         = p_page_group
    AND    t.id           = tp.thingid
    AND    t.masterthingid = tp.masterthingid
    AND    t.siteid      = tp.siteid
    AND    tp.perspectiveid = p.id
    AND    p.name         = p_perspective;

BEGIN
    OPEN c_image (p_page_group);
    FETCH c_image INTO v_image;
    CLOSE c_image;

    IF p_image_tag THEN
        v_url := '<img src=""||wwctx_api.get_direct_doc_path(p_name=> v_image)||"' border="0" alt="">' ;
    ELSE
        v_url := wwctx_api.get_direct_doc_path(p_name=> v_image);
    END IF;

    RETURN v_url;
END image_url;
```



Using Styles

- ◆ Interface styles can be defined:
 - ◆ As a Portal style
 - ◆ In a stylesheet
- ◆ Define a standard style
- ◆ Enforce the style using templates
- ◆ Store any stylesheets in Portal and reference in a User interface template
- ◆ Use the styles in custom code
- ◆ Use additional styles for custom purposes

Document - WordPad

File Edit View Insert Format Help

Arial 12 Western B I U

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

```
-- Print the news items
FOR r_news IN c_news LOOP

    -- Get the display page id
    |

    -- get the parent pages
    v_page_id := r_news.display_page_id;
    v_parent_string := page_url(p_page_group, v_page_id);

    IF r_news.tag IS NOT NULL THEN
        v_parent_string := v_parent_string||'#'||r_news.tag;
    END IF;

    http.p('<TR><TD><A title='||r_news.title||' href='''||v_parent_string||'' '>||
        wwui_api_portlet.portlet_text(nvl(r_news.title,'News'),3)||'</A></TD></TR>' );
    IF r_news.description IS NOT NULL THEN
        http.p('<TR><TD><P align="Justify">'||wwui_api_portlet.portlet_text(r_news.description,4)||'</P></TD>
</TR>');
    ELSE
        http.p('<TR><TD></TD></TR>');
    END IF;

    http.p('<TR><TD></TD></TR>');
END LOOP;
```

For Help, press F1



Custom Web Portlets

- ◆ JPDK contains PortletRenderer object
- ◆ Defines constants to reference the current page style
- ◆ Examples:

- ◆ PORTLET_TEXT_2

```
public static final java.lang.String PORTLET_TEXT_2
```

- ◆ PORTLET_BODY_COLOR

```
public static final java.lang.String PORTLET_BODY_COLOR
```



Using Styles for Custom Components

Style STD_MENU

<u>Component</u>	<u>Use</u>
Tab Inactive Color	Menubar back color
Tab Active Color	Menubar active back color
Tab Inactive Text	Menubar font attributes
Tab Active Text	Menubar active font color only
Portlet Heading Color	Horizontal pop back color
Portlet SubHeading Color	Horizontal pop active back color
Portlet Heading Text	Horizontal pop font attributes
Portlet SubHeading Text	Horizontal pop active font color only

◆ Users can change the menu style without coding



Get the Style in Custom Code

```
menu_mgt_new.pkb - Notepad
File Edit Format View Help

CURSOR c_site_style IS
SELECT s.siteid, s.id
FROM   wwv_settingssets s
WHERE  s.name = g_mnu_style_name;

v_siteid    wwv_settingssets.siteid%TYPE;
v_setid     wwv_settingssets.id%TYPE;
v_name      wwv_settings.name%TYPE;
v_type      wwv_settings.type%TYPE;
v_valuetype wwv_settings.valuetype%TYPE;

t_style     t_style_tab;

BEGIN

-- get the site id and style id
OPEN c_site_style;

FETCH c_site_style INTO v_siteid, v_setid;

CLOSE c_site_style;

-- row1 = 'RegionHeader'          Region Banner Color          = verticalBar back color
v_type := 'Banner';
t_style(1).style_name := 'RegionHeader';
v_valuetype := 'Background-Color';
t_style(1).color := style_value(t_style(1).style_name, v_valuetype, v_type, v_setid, v_siteid);
```

```
sjog_portlets.pkb - Notepad
File Edit Format View Help

http.p('<TR><TD><A title='||r_news.title||' href='||v_parent_string||' >'||
wwui_api_portlet.portlet_text(nvl(r_news.title, 'News'),3)||'</A></TD></TR>' );
```



Managing Content



Define a Taxonomy

- ◆ Determines how content is classified
- ◆ Determines how the content can be searched
- ◆ May determine the navigation path
- ◆ Before you start creating the portal
- ◆ Defines the meta data
- ◆ Requires analysis

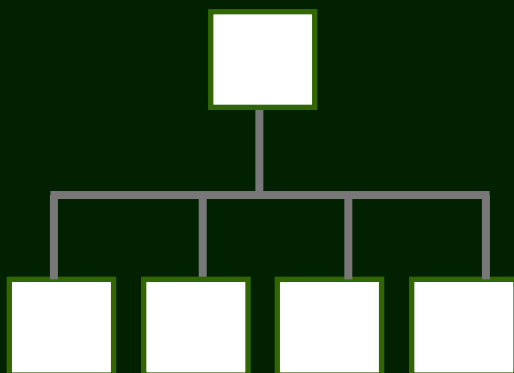


Classification

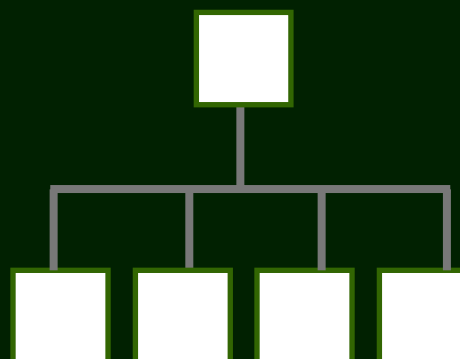
- ◆ Use Category for type of content
- ◆ Perspectives can provide multiple views on content
- ◆ Example:
 - ◆ Business Area
 - ◆ Type of viewer
 - ◆ Physical location
- ◆ Use Custom Attributes for additional information

Accessing the Content

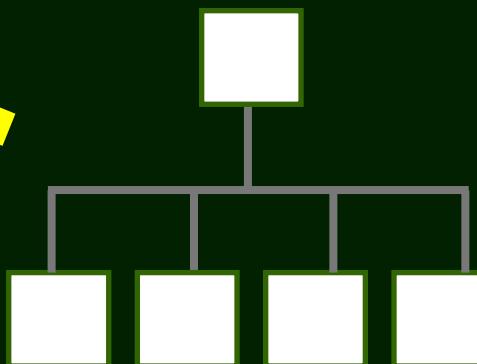
Maintain according to
business area



Access using a
viewer type
perspective



Navigate using
searches



Access using a
location
perspective



Site 2 - Business Requirement

- ◆ Department of Agriculture (WA)
- ◆ Joint development Sage and Spherion Technology
- ◆ Site must be visually attractive
- ◆ Major purpose of site is to allow the public to search for informative materials
- ◆ Site can be searched using a hierarchy of topics
- ◆ The site must be easy to navigate



Site 2 – Technical Solution

- ◆ Use a Perspective hierarchy to classify information
- ◆ Provide navigation controls that allow users to drill down Perspective hierarchy
- ◆ Screen displays a standard page for top level Perspectives
- ◆ Screen displays a search for lower level Perspectives

- Agribusiness + Markets
- Animals + Animal Products
- Biotechnology
- Crops
- Farm Management
- Horticulture
- Land, Water + Environment
- Pastures
- Pests, Weeds + Diseases
- Sustainability

Fast Pay Invoices

KIM CHANCE MLC
Minister For Agriculture

Western Australia's agricultural, food and fisheries industries are a major contributor to the State's economy, with a total contribution of nine per cent to the GDP.

Western Australia's agricultural, food and fisheries industries play a significant role in providing employment opportunities throughout the State. When the flow-on benefits are included, the number of jobs created is approximately 105,000-or 10 per cent of total employment in Western Australia. Western Australia's rural communities are working together to support sustainable rural development through the principles of Ecologically Sustainable Development.

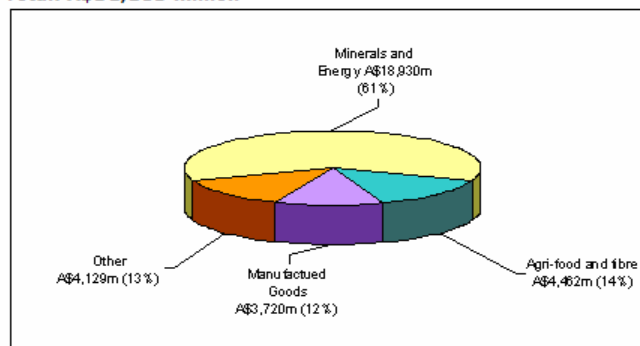
Western Australia's agriculture, fisheries and food industry is the second largest export industry after the mining industry, with around 85 per cent production being exported.

In 2002/03, Western Australia's agriculture and fisheries production was worth a total of AUD 5.1 billion. Total agri-food industry exports for the same period were worth AUD 4.4 billion and accounted for 14 per cent of the State's exports. This represents almost 20 per cent of the total Australian agricultural, fisheries and food exports.

Western Australia's grain industry, mainly wheat, is regarded as the mainstay of the State's agricultural sector. The State exports around 90 per cent of the wheat it produces. Further processing of food is another significant sector, with processed food comprising around 20 per cent of agri-food exports worth AUD 1.26 billion in 2002/03.

With the increasing productivity of quality raw material from the application of biotechnology and research and development, along with advanced infrastructure and highly developed food and health standards, the State is an ideal base for food processing investment.

Total Western Australian exports by sector 2002/03
Total: A\$31,185 million



WA agri-food and fibre production, 2002/03



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Help Search for

GO

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Minister For Agriculture

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PUBLICATIONS

ABOUT US

THE INDUSTRY

SERVICES

ADVANCED SEARCH

VIEW BY TOPICS

HOME

Pests, Weeds + Diseases

Animal Health

Chemicals

General

Garden + Household

Pests

Insects + Allied

Forms

Plant Health

Quarantine

Vertebrate Pests

Weeds

Department of Agriculture, Western Australia

Pest, Weeds + Diseases

Areas of interest:

- [AGWEST Plant Laboratories](#)
- [Animal Health Laboratories](#)
- [Biosecurity](#)
- [Biosecurity emergency contact numbers](#)
- [Declared plants](#)
- [Entomology](#)
- [Pest and Exotic Animals](#)
- [Plant Health](#)
- [Quarantine \(WAQIS\)](#)
- [Weeds](#)
- [Western Australian Agriculture Protection Board](#)

Can't find what you are looking for?

- View all '[Pest, Weeds + Diseases](#)' documents

Page updated 10 June 2004

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GO

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VIEW BY TOPICS

[HOME](#)[Pests, Weeds + Diseases](#)[Insects + Allied Forms](#)[Animal Pests](#)[Beneficials](#)[Household Pests](#)[Identification](#)[Pest Management](#)[Plant Pests](#)[Quarantine Pests](#)

HOME

PUBLICATIONS

ABOUT US

THE INDUSTRY

SERVICES

ADVANCED SEARCH

Limit Topic To: All And Sort By: Date GO

1. [Western Australia helps develop world pest database](#)

Media release 9 June 2004

6k - [[html](#)] - 10 jun 2004**2. [Common spiders in our neighbourhood](#)**

Understanding spiders makes it easier to recognise their important role in the environment. Information on Red-back spiders *Lactrodectus hasselti* Trapdoor spiders *Mygalomorphae* Black house spiders *Badumna insignis* White-tailed spiders *Lampona cylindrata* Daddy long-legs *Pholcus phalangioides* Huntsman spiders family *Sparassidae* Wolf spiders *Lycosa* species and the Garden spider *Eriophora transmarina*

18k - [[pdf](#)] - [view as text](#) - 26 feb 2004**3. [AGWEST Plant Laboratories](#)**

AGWEST Plant Laboratories provides a range of services crucial to productivity, sustainability and industry resource protection. The services are available to producers and agribusiness to serve the needs of industry.

3k - [[html](#)] - 18 feb 2004**4. [Wasp identification guide](#)**

Garden note 06 January 2004 ILLUSTRATIONS and descriptions of differences between the European wasp and paper wasp; Replaces Is it a European wasp?

6k - [[pdf](#)] - [view as text](#) - 9 feb 2004**5. [Portuguese millipedes \(*Ommatoiulus moreletii*\)](#)**

Garden note 2 September 2003 Portuguese millipedes *Ommatoiulus moreletii* belong to a group of animals called Myriapoda meaning manylegged. This note covers distribution, description, life cycle, millipedes as pests, and control methods. Replaces Farmnote 38/ 95

18k - [[pdf](#)] - [view as text](#) - 6 nov 2003**6. [Biosecurity in agriculture newsletter September 2003](#)**

Biosecurity in Agriculture, is a quarterly electronic newsletter from the Department of Agriculture. It has been prepared to improve communications with customers and as part of their role to safeguard WA's rural industries and natural resources from the harmful effects of animal and plant pests and diseases. Articles on: APB Board matters plant industries plant health plant pests quarantine matters animal industries animal pests biosecurity people Francoise Berlandier and Dave ...

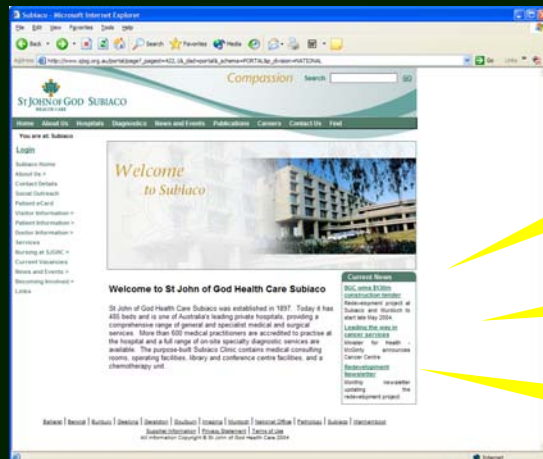
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Using Perspectives for Dynamic Portlets

✦ Perspectives can be used to identify items to be displayed in dynamic portlets

Select items with
Perspective =
CURRENT_NEWS





Using the API



Site 2 - Business Requirement

- ◆ Department of Agriculture (WA)
- ◆ Users need to record events
- ◆ Events need to be stored in Oracle Portal
- ◆ Events have a set of custom attributes
- ◆ Events are entered using an Oracle Forms Content Authoring application



Site 2 – Technical Solution

- ◆ Use custom attributes to record additional information about events
- ◆ Use the API to store content in Oracle Portal
- ◆ This functionality is currently in the test environment

Search By Web Topic

CAW Folders

- About Us
- Agribusiness + Markets
- Animals + Animal Products
- Archive
- Crops
- Farm Management
 - Small Farms
- Food
- Horticulture

Contents for Folder: Small Farms

	Content Id	Content Title	Current Status
	60	Small Farm Event Test 1	Published
	61	Small Farms 2	Published
	62	Small Farms 3	Published
	63	Small Farms 4	Published
	141510	Small farms : goal setting worksheets	Expired
	141536	Small farms : how can we help you?	Published
	141507	Small farms in the Swan-Canning Catchment	Published
	137361	Stocking rate guidelines for rural small holdings : Swan Co	Published
	141517	What is property planning?	Published

[VIEW] Content ID: 61 in Folder: Farm Management / Small Farms

* Content Details * Content Details 2 Web Topics Keywords Attachments Nominated Reviewers Workflows Audits Event Details

Content Details

Publication

Type (*) Event

Title (*) Small Farms 2

Description (*) Conference

Project

Division

Udak

Author(s)

Owner CAW Administrator, User

Series No

Content Id 61

Date Created 03-06-2004

Date Published 03-06-2004

Next Review Date 03-06-2005

Expiry Date 03-09-2005

Category 1 2 3

Media Medium (*) Web Only

Current Status: Published

Publishing Workflow:

1. Technical Review
2. Editorial Review
3. Managerial Review

Chargeable










Cancel Exit

Search By Web Topic

CAW Folders

- About Us
- Agribusiness + Markets
- Animals + Animal Products
- Archive
- Crops
- Farm Management
 - Small Farms
- Food
- Horticulture

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	141517	What is property planning?	Published

[VIEW] Content ID: 61 in Folder: Farm Management / Small Farms

Content Details Content Details 2 Web Topics Keywords Attachments Nominated Reviewers Workflows Audits * Event Details *

Events

Event Type (*)

Conference

Event Region (*)

Capricorn Coast

Start Date (*)

01-10-2004

End Date (*)

02-10-2004

Event Times

9am - 5pm

Costs

\$21 pp

Location (*)

Cap Coast Showgrounds



Departmental Event

Additional Event Information

www.smallfarms2.agric.wa.gov.au

Contact Details

Name (*)

Kate Marshall

Organisation (*)

IT

Phone

Fax

Email

Cancel

Exit

Any External Reviewer(s) of the Content Item

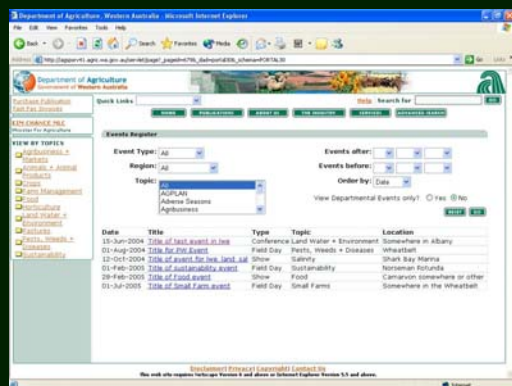
Record: 1/1

Populate the Portal

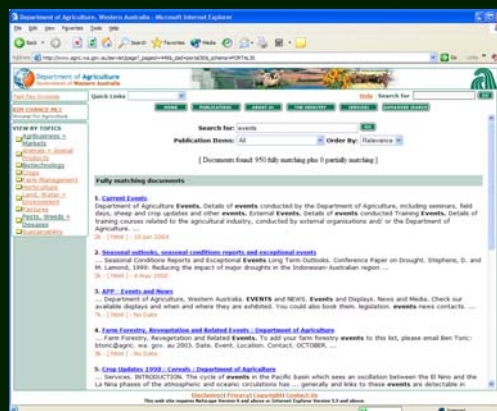
Custom CAWS
Tables

Custom
PL/SQL
Package

Portal API



Custom Portlet



Standard Search

Portal
Repository
Tables

Custom
Attributes

www.sagecomputing.com.au



Populate Attribute Array

```
caw_portal_api_present.pkg.txt - Notepad
File Edit Format View Help

v_custom_index := 0;
-- Build array for Event custom attributes.
IF upper(rec_c.pub_type) = 'EVENT' THEN
  FOR r_event_att IN c_event_att(v_caid_id) LOOP
    v_custom_index := v_custom_index + 1;
    l_attribute_id(v_custom_index) := r_event_att.id;
    l_attribute_caid(v_custom_index) := r_event_att.caid;
    l_attribute_data_type(v_custom_index) := r_event_att.data_type;
    IF r_event_att.name = 'EVT_LOC' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_loc, '');
    ELSIF r_event_att.name = 'EVT_TYPE' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_type, '');
    ELSIF r_event_att.name = 'EVT_REGION' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_region, '');
    ELSIF r_event_att.name = 'EVT_START' THEN
      l_attribute_value(v_custom_index) := nvl(to_char(rec_c.evt_start, 'DD-MON-YYYY'), '');
    ELSIF r_event_att.name = 'EVT_END' THEN
      l_attribute_value(v_custom_index) := nvl(to_char(rec_c.evt_end, 'DD-MON-YYYY'), '');
    ELSIF r_event_att.name = 'EVT_TIME' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_time, '');
    ELSIF r_event_att.name = 'EVT_COST' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_cost, '');
    ELSIF r_event_att.name = 'EVT_DEPT' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_dept, '');
    ELSIF r_event_att.name = 'EVT_CONTACT' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_contact, '');
    ELSIF r_event_att.name = 'EVT_ORG' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_org, '');
    ELSIF r_event_att.name = 'EVT_PHONE' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_phone, '');
    ELSIF r_event_att.name = 'EVT_FAX' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_fax, '');
    ELSIF r_event_att.name = 'EVT_EMAIL' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_email, '');
    ELSIF r_event_att.name = 'EVT_INFO' THEN
      l_attribute_value(v_custom_index) := nvl(rec_c.evt_info, '');
    ELSE
      l_attribute_value(v_custom_index) := '';
    END IF;
  END LOOP;
END IF;
```

Create Item

```
caw_portal_api_present.pkg.txt - Notepad
File Edit Format View Help

IF upper(rec_c.pub_type) = 'EVENT' THEN


    -- Content Item is to be created in Portal as Item of type EVENT.
    v_id := wwsbr_api.add_item(
        p_caid                => v_caid_id,
        p_folder_id           => v_folder_id,
        p_display_name        => rec_c.title,
        p_description          => rec_c.description,
        p_type_id             => v_event_id,
        p_type_caid           => v_caid_id,
        p_region_id           => v_region,
        p_category_id         => v_cat_id,
        p_category_caid       => v_caid_id,
        p_perspectives        => l_perspectives,
        p_perspectives_caid   => l_perspectives_caid,
        p_text                 => rec_c.portal_text,
        p_publish_date        => TO_CHAR(SYSDATE, 'DD-MON-YYYY'),
        p_expire_mode         => v_expire_mode,
        p_expiration          => v_expiration,
        p_keywords            => v_keywords,
        p_attribute_id        => l_attribute_id,
        p_attribute_caid      => l_attribute_caid,
        p_attribute_data_type => l_attribute_data_type,
        p_attribute_value     => l_attribute_value
    );
```


Department of Agriculture, Western Australia - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://agspsrv41.agric.wa.gov.au/servlet/page?_pageid=679&_dad=portal30&_schema=PORTAL30 Go Links


Department of Agriculture
Government of Western Australia





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VIEW BY TOPICS

- Agribusiness + Markets
- Animals + Animal Products
- Crops
- Farm Management
- Food
- Horticulture
- Land Water + Environment
- Pastures
- Pests, Weeds + Diseases
- Sustainability

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[Help](#) Search for [GO](#)

Events Register

Event Type:

Region:

Topic:
AGPLAN
Adverse Seasons
Agribusiness

Events after:

Events before:

Order by:

View Departmental Events only? ☐ Yes ☒ No

[RESET](#) [GO](#)

Date	Title	Type	Topic	Location
15-Jun-2004	Title of test event in lwe	Conference	Land Water + Environment	Somewhere in Albany
01-Aug-2004	Title for PW Event	Field Day	Pests, Weeds + Diseases	Wheatbelt
12-Oct-2004	Title of event for lwe land sal	Show	Salinity	Shark Bay Marina
01-Feb-2005	Title of sustainability event	Field Day	Sustainability	Norseman Rotunda
28-Feb-2005	Title of Food event	Show	Food	Carnarvon somewhere or other
01-Jul-2005	Title of Small Farm event	Field Day	Small Farms	Somewhere in the Wheatbelt

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Internet



Single Sign on



Site 1 - Business Requirement

- ✦ The login screen must conform to the site look and feel
- ✦ The login screen requires additional security to check the user's IP address



Site 1 – Technical Solution

- ◆ Custom Java server Page (JSP) replaces the default SSO Login page
 - ◆ Performs additional checking
 - ◆ Uses default SSO checking
- ◆ Change the entries in WWSSO_LS_CONFIGURATION_INFO\$
 - ◆ Default login_URL='UNUSED UNUSED UNUSED'
 - ◆ New
login_URL='https://login.server.4443/custSSO/login.jsp'
 - ◆ https://login.server.4443/custSSO/changePassword.jsp
 - ◆ https://login.server.4443/custSSO/logout.jsp'



Custom Single Sign on


Login - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address <https://login.sjog.org.au/sjogSSO/login.jsp?site2pstoretoken=v1.2%7E1422%7E9F485832F250878405248F80106CBFD53F4DEE7EB493134EEF8> Go Links

Secure Login

 Enter your user name and password to login.

Login Cancel

User Name

Password

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For more information please refer to the [Terms of Use](#) page.

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Internet

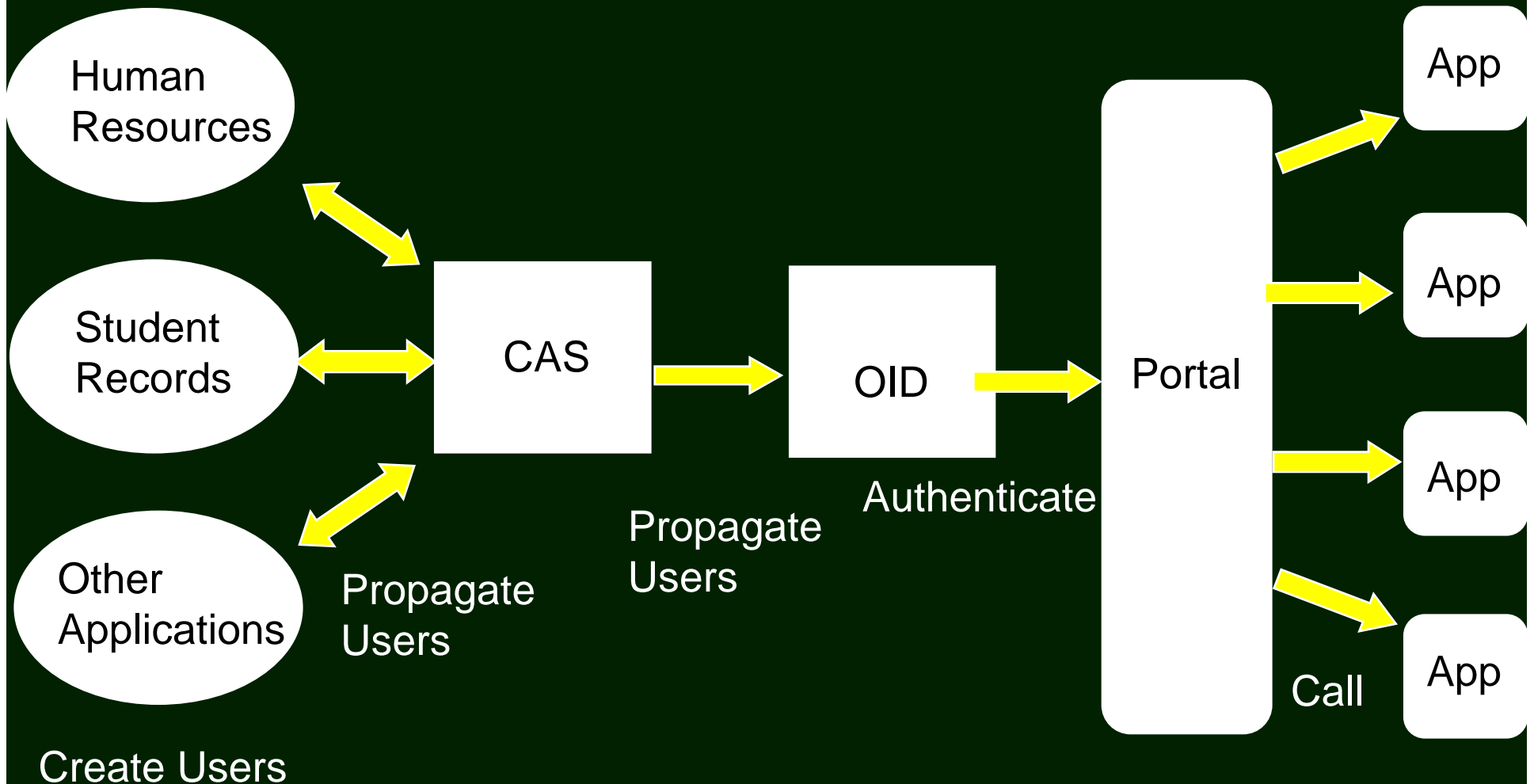


Site 3 - Business Requirement

- ◆ Edith Cowan University
- ◆ Student Portal
- ◆ Call multiple existing applications
- ◆ Provide secure access to applications
- ◆ Present a custom view for:
 - ◆ Students
 - ◆ Staff
- ◆ ECU have developed a Central Authentication System (CAS)
- ◆ Portal must interface to CAS



Case 3 - Technical Solution





Synchronising OID

- ◆ Add custom attribute to OID
- ◆ Contains CAS Identifier
- ◆ Allows synchronisation of user logons



Create Custom Attribute (1)

A screenshot of a Windows-style dialog box titled "Attribute: casOrigSystemId". The dialog has two tabs: "General" (selected) and "Advanced". The "General" tab contains the following fields:

- Name: casOrigSystemId
- Object ID: 0.0.0.0
- Description: ECU (Central Authentication System) CAS Orig System ID
- Syntax: Directory String (dropdown menu)
- Size: (empty text box)
- ☒ Single Value

At the bottom of the dialog are buttons for "Create Like", "Delete", "Drop Index", "OK", "Cancel", and "Help". A status bar at the very bottom shows the word "Ready". A yellow tooltip with the text "The name of this object." is pointing to the "Object ID" field.



Create Custom Attribute (2)

Attribute: casOrigSystemId

General Advanced

☒ Indexed

Usage: userApplications

Ordering:

Equality: caseIgnoreMatch

Substring: caseIgnoreSubStringsMatch

Super

Name	Indexed
------	---------

Add

Delete

Edit

Create Like Delete Drop Index OK Cancel Help

Ready


Use Custom Attribute

Object Class: inetOrgPerson

General
Description:

Type:

Super Class

Name	Description
 organizationalPerson	

Add
Delete
Edit





Delete selected object class

Mandatory Attributes

Name	Indexed
------	---------

Add
Delete
Edit
Make Optional

Optional Attributes

Name	Indexed
 userSMIMECertificate	<input type="checkbox"/>
 x121Address	<input type="checkbox"/>
 x500UniqueIdentifier	<input type="checkbox"/>
 casOrigSystemId	<input checked="" type="checkbox"/>

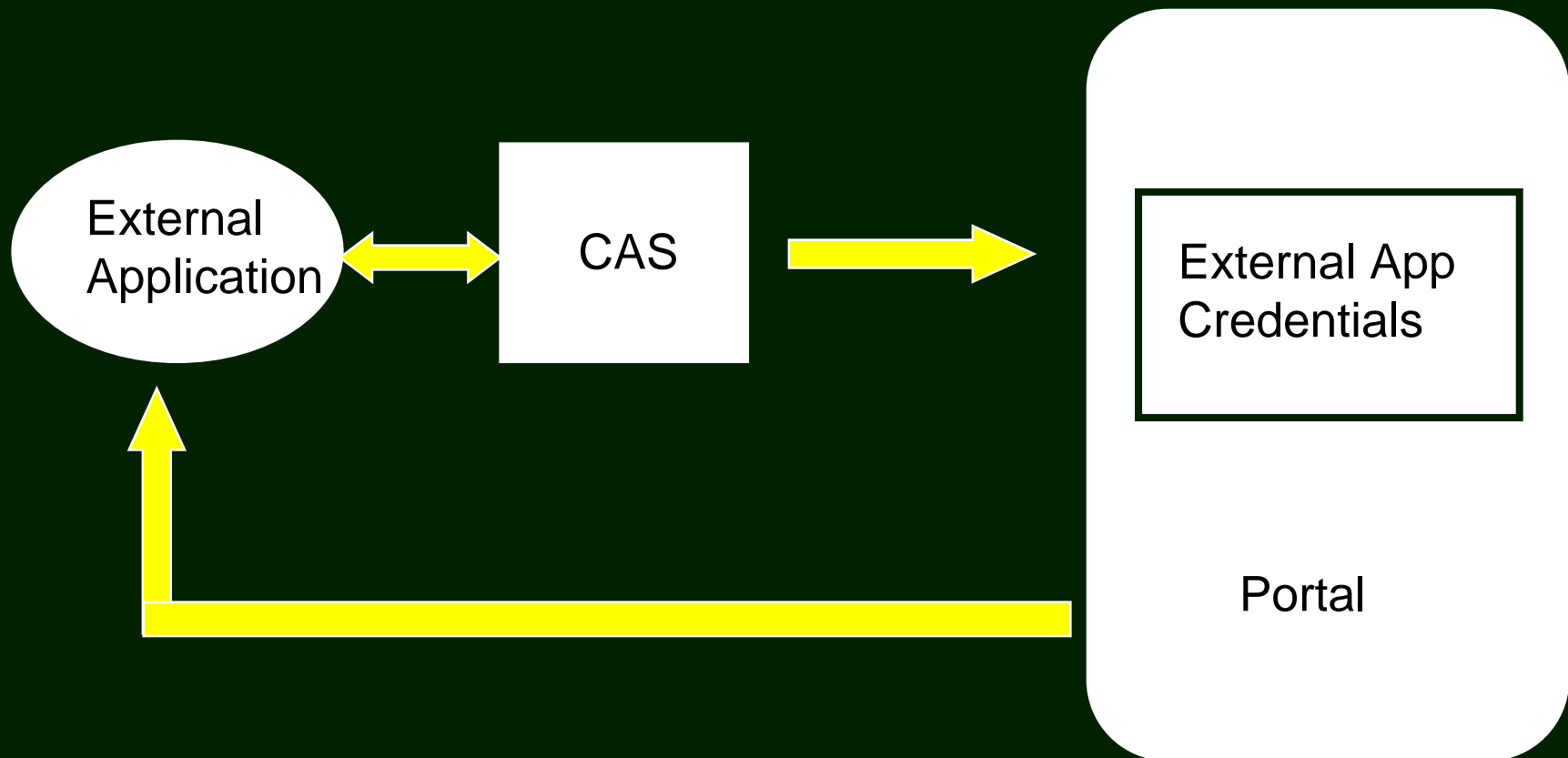
Add
Delete
Edit

Create Like Delete OK Cancel Help

The name of this object.



Synchronising External Applications





Integrating Diverse Applications



Site 3 - Business Requirement

- ◆ Edith Cowan University
- ◆ Student Portal
- ◆ Call multiple existing applications
 - ◆ Student Mail
 - ◆ Oracle Forms applications (CALLISTA)
 - ◆ External applications (Blackboard)

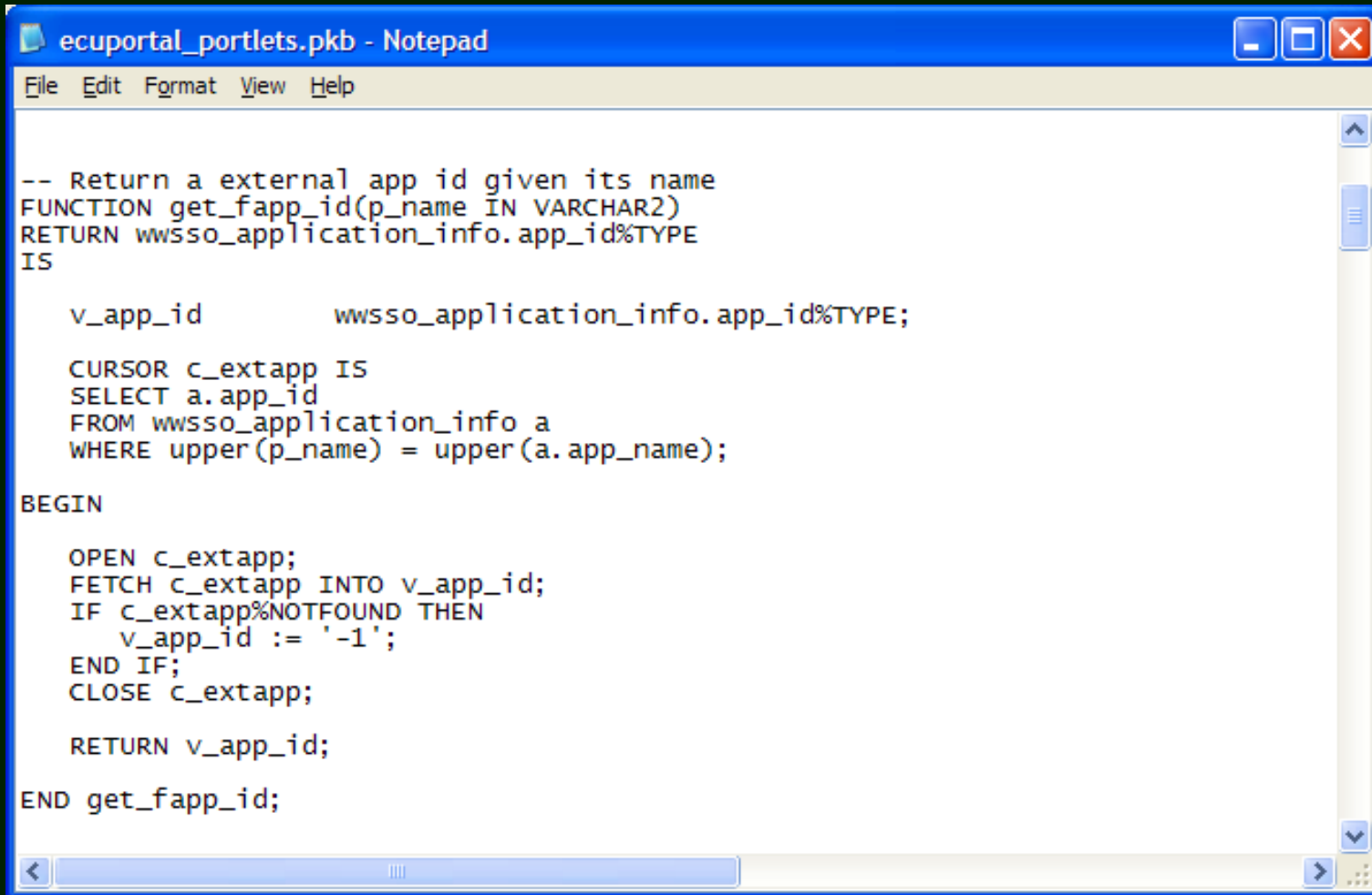


Site 3 – Technical Solution

- ◆ SSO for Oracle Forms applications
- ◆ External applications for others
- ◆ Not using external applications portlet
- ◆ Write custom portlet to call each external application
- ◆ Blackboard 6 is LDAP compliant



Custom Ext Application Call

A screenshot of a Notepad window titled "ecuportal_portlets.pkb - Notepad". The window has a menu bar with "File", "Edit", "Format", "View", and "Help". The text area contains PL/SQL code for a function named "get_fapp_id". The code is as follows:

```
-- Return a external app id given its name
FUNCTION get_fapp_id(p_name IN VARCHAR2)
RETURN wwsso_application_info.app_id%TYPE
IS
    v_app_id          wwsso_application_info.app_id%TYPE;

    CURSOR c_extapp IS
    SELECT a.app_id
    FROM wwsso_application_info a
    WHERE upper(p_name) = upper(a.app_name);

BEGIN
    OPEN c_extapp;
    FETCH c_extapp INTO v_app_id;
    IF c_extapp%NOTFOUND THEN
        v_app_id := '-1';
    END IF;
    CLOSE c_extapp;

    RETURN v_app_id;
END get_fapp_id;
```



Custom Ext Application Call

```
ecuportal_portlets.pkb - Notepad
File Edit Format View Help

-- Generate the javascript / html for an External App Redirect
-- Requires - External App Name
-- Designed to be embedded in an iframe in the HTML Portlet
-- to achieve an inline (embedded) external app interface
PROCEDURE generate_extapp_redirect(p_ext_app_name IN VARCHAR2)
IS
    v_sso_login_url VARCHAR2(500);
    v_app_id         wwssso_application_info.app_id%TYPE;
BEGIN
    -- Note call to orasso.wwssso_app_admin.get_ext_app_id requires a full url parameter.
    -- Colon symbols in a full url based bind variable are problematic in a dynamic page,
    -- So custom get_fapp_id is substituted, requiring NAME instead.

    v_app_id := get_fapp_id(p_ext_app_name);

    IF v_app_id = '-1' THEN
        http.p('
            <p class="PortletHeading1">
                Error => External Application:'||p_ext_app_name||' could not be found.
                Please report this message to an ECU Portal Administrator.
            </p>
        ');
    ELSE
        v_sso_login_url := wwctx_api.get_sso_proc_path('wwssso_app_admin.fapp_process_login?p_app_id=');

        http.p('
            <script type="text/javascript">
                <!--
                if (document.images){
                    location.replace("'||v_sso_login_url||v_app_id||'");
                }
                else {
                    location.href = "'||v_sso_login_url||v_app_id||'";
                }
            </script>
            <p>Connecting to '||p_ext_app_name||'&nbsp;...</br></p>
        ');
    END IF;
END generate_extapp_redirect;
```



Portal Applications



Developing Portlets

- ◆ Portal Components
 - ◆ Forms
 - ◆ Reports
 - ◆ Calendars
- ◆ Custom portlets
 - ◆ PL/SQL
 - ◆ Java
- ◆ Use the simplest option to provide the required functionality



Portal Components

- Simple functionality
- Fast to develop
- Wizard style interface

Microsoft Internet Explorer - Edit Form from Table or View

Address: http://sage3.sagecomputing.com.au:7778/pls/portal/PORTAL.www_builder.show?p_module_id=1060253649&p_version=1&p_section=1&p_save_version=1&p_mode=EDI

Home Builder Navigator Help

FORM_0613155627

OK Cancel

Formatting and Validation Options

Item Level Options for EMPNO

Item Type: TextBox

Display Options

Label	Empno	Font Face	Browser Default
Link		Font Color	Red
		Font Size	12pt
Input Width	15		
Input Max Length	22		

Validation Options

- ☒ Mandatory
- ☒ Updatable
- ☒ Insertable

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Site 1 - Business Requirement

- ◆ Simple feedback form
- ◆ Send as email
- ◆ Store in table

General Enquiries - Microsoft Internet Explorer

Address: http://www.sjog.org.au/portal/page?_pageid=415,60412&_dad=portal&_schema=PORTAL&p_division=PATHOLOGY

Justice

ST JOHN OF GOD HEALTH CARE

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- [Private health group backs action on Aboriginal Health](#)
\$3.5 million investment in programs
- [BGC wins tender for \\$120 million](#)
Redevelopment at Subiaco and Murdoch
- [Nepean Rehabilitation Hospital changes hands](#)
Acquisition of hospital in Melbourne
- [Current newsletter - May 2004](#)

Contact Us

General Enquiries

We welcome your enquiries and comments. For enquiries about St John of God Health Care please use the form below.

If you are enquiring about employment opportunities within St John of God Health Care, please visit the employment section of our website.

Please fill in the details below and press Send Comments

Name

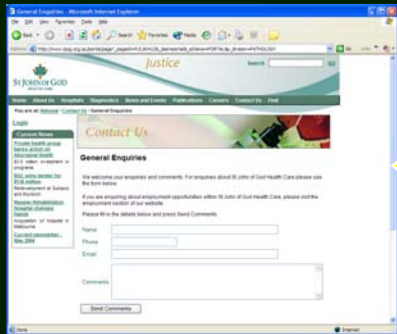
Phone

Email

Comments

Site 1 - Technical Solution

Javascript
to populate
Division



Submit



Form calls
procedure



Feedback
table

Trigger
sends email



Display
confirmation



No Error



Display
message



Error



Error table





Custom Portlets


- ◆ PL/SQL
- ◆ Java
- ◆ More complex to develop
- ◆ More flexible

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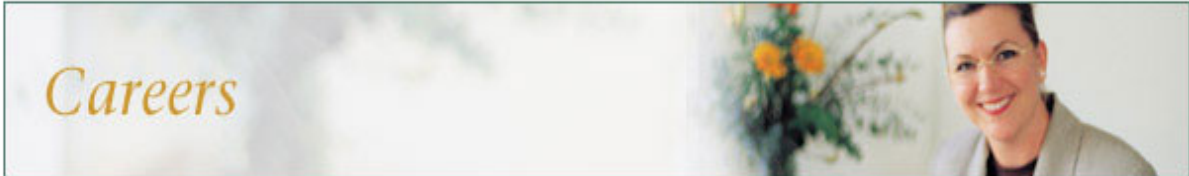
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Category	<input type="text" value="Nursing"/>
Division	<input type="text" value="Any Category"/> <input type="text" value="Nursing"/>
Status	<input type="text" value="Health Professional (Non-Nursing)"/> <input type="text" value="Professional (Non-Health)"/>
Type	<input type="text" value="Health - Allied"/> <input type="text" value="Administration"/> <input type="text" value="Support Workers"/> <input type="text" value="Engineering"/> <input type="text" value="Technical"/> <input type="text" value="Catering"/>

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Vacancy Details

ID test

Title test

Close Date

Summary test

Description

Category Nursing

Division Imaging

Status Casual

Type Permanent

Selection Criteria

Contact

Supporting Documents

View

Attachment

Conditions for Application Submission

Condition

Apply Online

Results List

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Recommendation

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Online Employment Application

Selected Vacancy

Title	Close Date	Category	Division	Status	Type
test		Nursing	Imaging	Casual	Permanent

Your Application Submission Form

* Surname

* First Names

* Address Line 1

Address Line 2

* Town / City

State

* PostCode

Country

* Home

Mobile

Work

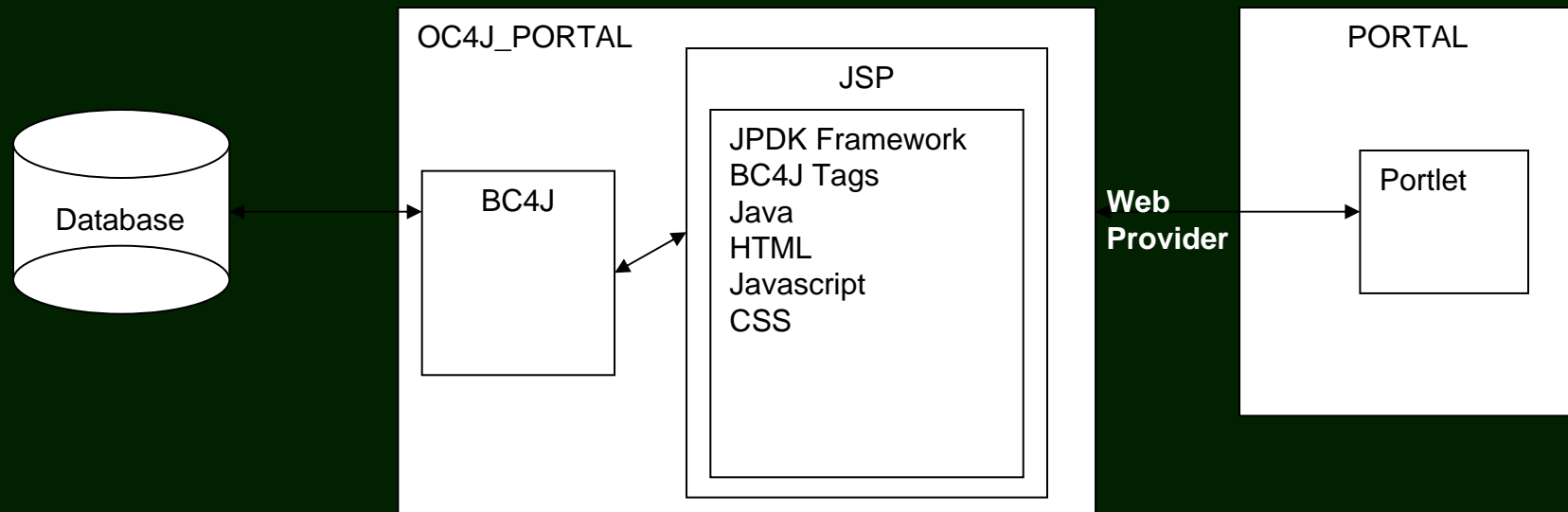
Email

Done Local intranet



Site 1 – Technical Solution

- ◆ Custom Web Portlet
- ◆ Web Provider, BC4J/JSP App, Java Portlet





Administration Requires File Upload

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Supporting Documents (max of 5)

Attachment

vd doc~vac~7/9iAS_securityfaq.pdf

vd doc~vac~7/OtherDeviceSpec.txt

vd doc~vac~7/readme.txt

Vacancy Conditions (max of 5)

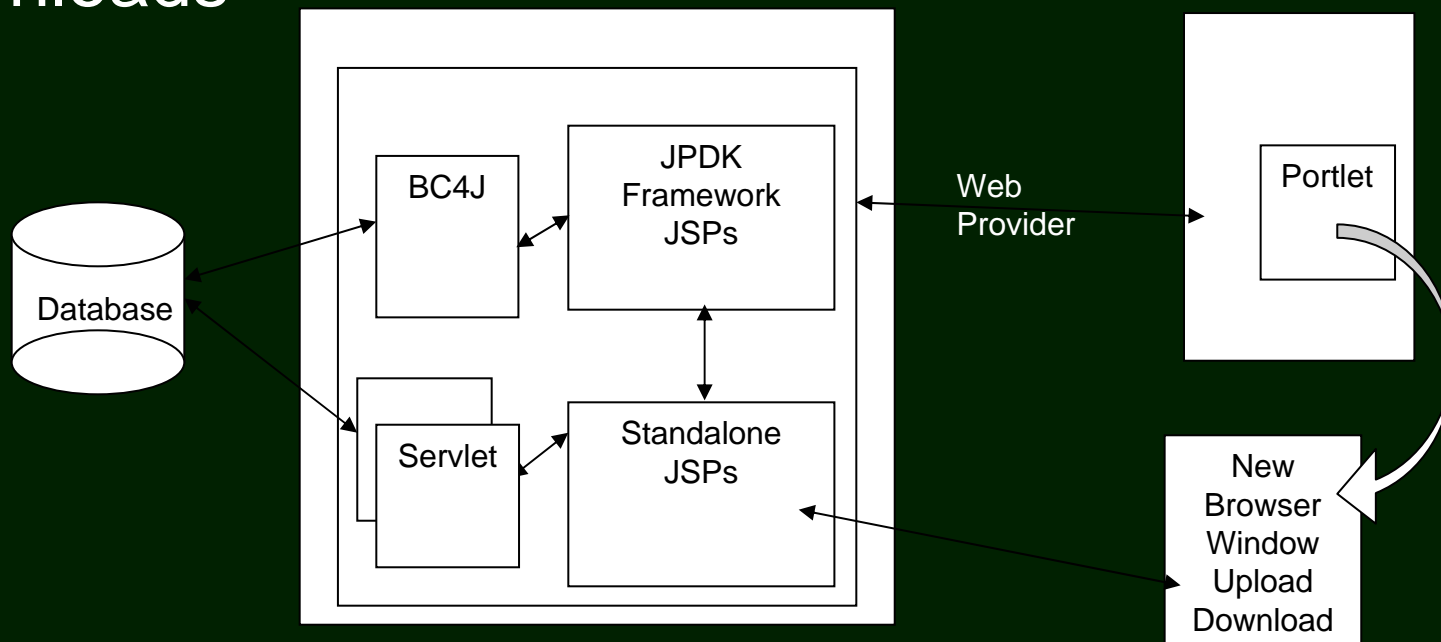
	<input type="button" value="Insert"/>	Condition
<input type="button" value="Delete"/>	<input type="button" value="Update"/>	Please include a covering letter, resume and address the selection criteria
<input type="button" value="Delete"/>	<input type="button" value="Update"/>	A standard test job application condition 5

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File Upload Solution

- ❖ JPDK framework limitation
- ❖ Web Provider JSP Portlet cannot process multi-part form data, i.e. file uploads or downloads





Searching the Portal

Searching Mechanisms

◆ Basic Search

- ◆ Search for text in page groups

◆ Advanced Search

- ◆ More search criteria
- ◆ Save the search

◆ Custom Search

- ◆ Customise the search criteria
- ◆ Customise the results
- ◆ Save the search
- ◆ Auto query

◆ Ultrasearch



Site 1 - Business Requirement

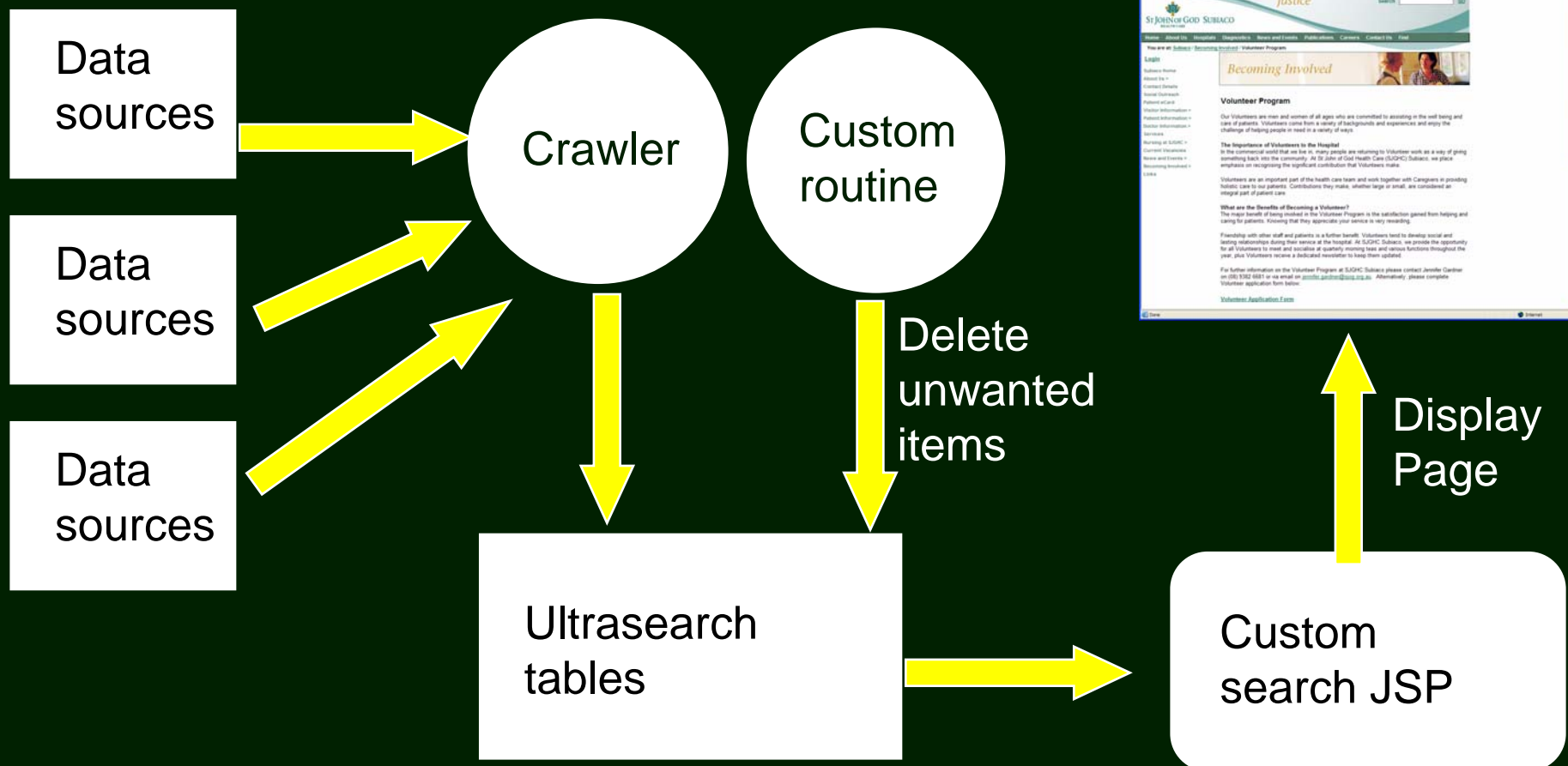
- ◆ The search screen must be customised
- ◆ The search results must be customised
- ◆ Items must only be shown within their pages
- ◆ The content of documents must be searched
- ◆ Some content must be excluded



Site 1 – Technical Solution

- ◆ Use Oracle Ultrasearch and custom build search/results screens
- ◆ Item URLs converted to Page URLs
- ◆ Base the custom screens on the Oracle examples
- ◆ Configure Crawler
 - ◆ Data source for each division
 - ◆ Synchronize daily
 - ◆ Remove the search results which are to be excluded

Custom Search Facility





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Supplier
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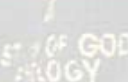
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News & Events

Diagnosis of Atypical Infections of the Skin and Soft Tissue

A recent case highlighted the difficulty of diagnosing atypical infections of the skin and soft tissue. It demonstrates the need for good communication between the ordering clinician and the pathology laboratory in the diagnosis of these cases.

Case Report

Mr X first noted a small papular lesion below the right knee six months before diagnosis. The patient was immunocompetent, systemically well and there was no history of trauma at the site. Despite antibiotics and subsequent excision, the lesion progressed. Surface swabs and the operative tissue were negative by standard bacterial culture. Six weeks after surgery the inflammation had recurred at the site and satellite nodules were noted.

Two 4mm punch biopsies were taken for examination. Histopathology revealed suppurative granulomatous inflammation and occasional yeast-like forms. Routine bacterial and mycobacterial cultures were negative but fungal cultures became positive after three weeks for *Sporothrix schenckii*.

Isolating Possible Causes

A wide range of pathogens such as *Nocardia*, atypical mycobacteria [*M. fortuitum*, *M. marinum*, *M. ulcerans*], *Sporothrix*, *Cryptococcus*, agents of mycetoma [*Pseudallescheria*, *Blastomyces*, *Phialophora*] and *Leishmania* cause unusual skin and soft tissue infections.

Standard culture will isolate non-fastidious organisms such as *Staphylococci* and *Streptococci*. Prolonged incubation of the routine culture will yield slow growing organisms such as *Nocardia* and rapidly growing mycobacterium.

Specialised media and incubation are required for non-rapid growing mycobacteria and most fungi. A number of organisms are not readily isolated and the diagnosis may be made with histology or other diagnostic modalities. Histopathological examination can reveal a characteristic inflammatory reaction



Thank You For Your Attention

Any Questions?

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