



## **SAGE Computing Services**

**With the assistance of the Faculty of  
Medicine, Dentistry and Health Sciences  
at The University of Western Australia**

### **Application Express - Just What the Doctor Ordered**

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Faculty of Medicine, Dentistry & Health Sciences, University of Western Australia

# Acknowledgement

Sage Computing Services would like to thank the Faculty of Medicine, Dentistry and Health Sciences at The University of Western Australia for allowing us to demonstrate this application at the conference.

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## Background - Mappedout

- System developed with the Faculty of Medicine, Dentistry and Health Sciences at The University of Western Australia
- Database and application designed to support the mapping of faculty and course outcomes to unit information
- Developed using Application Express version 3
- Developed by Eddie Harris and Penny Cookson (thanks to Eddie for doing all the ugly JavaScript bits)



# Requirements - All the stuff everyone wants

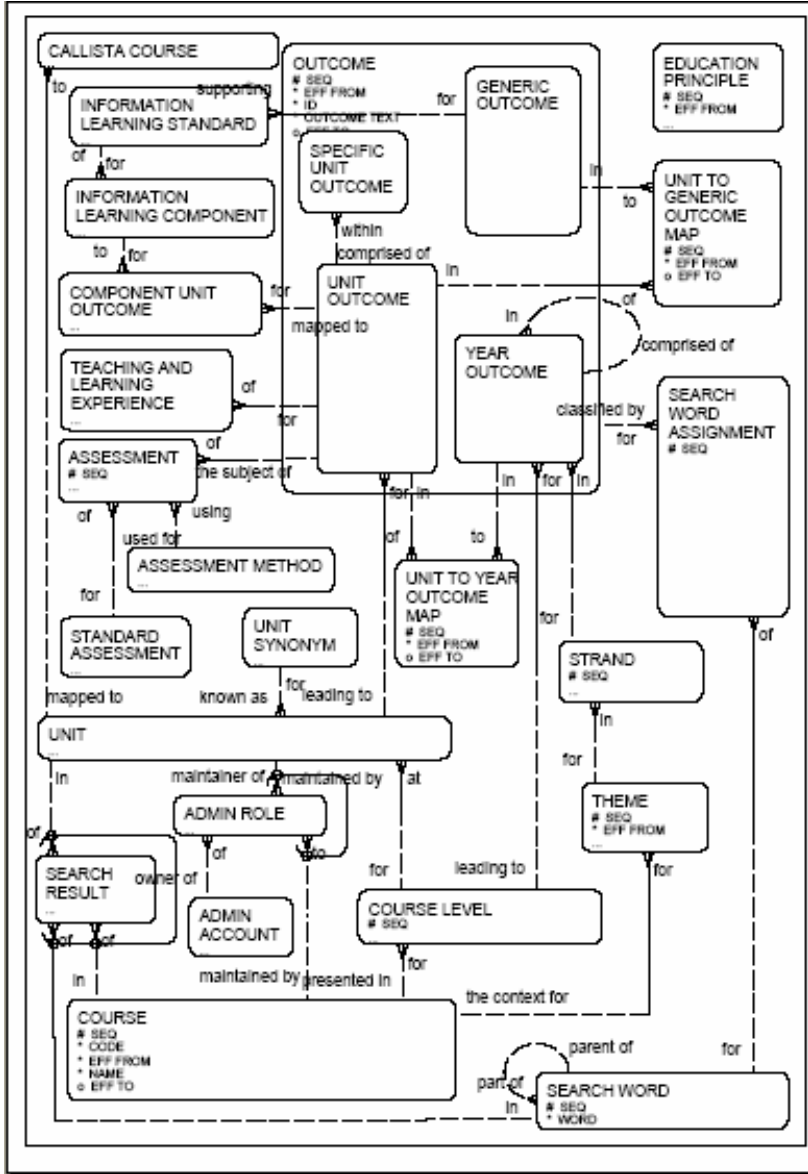
- Limited development time
- User friendly interface
- Data entry
- Flexible reporting
- Custom search engine with a range of selection criteria
- Authentication from current application
- Authorisation for admin functionality
- Access levels dependent on student enrolment



# Development Approach

- Off site
- Two developers working independently
- Merging the application at intervals
- Early demonstrations of look and feel to the client
- Oracle Designer for data modelling / DDL generation

# ER Model



Most information is course dependent

## Generic outcomes structure implemented

## Generic searchword assignment implemented

# Interface

- Breadcrumbs
- Navigation links
- Tabs
- Context – Course

**Solution** – Custom css file

Navigation bar

Page 0 for common features

Custom JavaScript file - ose.js

files in file system - performance





Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back

Search

Favorites


Media

Address 

http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=107:1:3350609925221349::::


Go

Links



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Mappedout - Curriculum Map and Outcomes Database

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Home

Application 107

Edit Page 1

Create

Session

Activity

Debug

Show Edit Links



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Course: Medicine

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[» Themes](#) | Medicine Themes and Strands

## 1 - Scientific Basis of Medicine

Disordered Structure and Function

Normal Structure and Function

The Scientific and Evidence Base of Medicine

Pathological and Clinical Features

Therapies

## 2 - Doctor and Patient

Communication

Practical Procedures

Patient Assessment & Management

Health Maintenance, Promotion and Disease Prevention

## 3 - Doctor, Health and Society

Health in a Multicultural Society

Aboriginal and Torres Strait Islander Health

Population Perspective on Health

Organisation of Health Care

## 4 - Personal and Professional Development

# Custom css file

```
.dhtmlSubMenu2 a.dhtmlSubMenuS:link,.dhtmlSubMenu2 a.dhtmlSubMenuS:visited {color:#808080;display:block;font-weight:normal;padding:3px 8px;text-decoration:none;white-space:nowrap;height:1%;overflow:hidden;}
.dhtmlSubMenu2 a.dhtmlSubMenuS:hover {background-color:#ddd;color:#000;}

.dhtmlMenuLG2 li.dhtmlMenuitem a{float:left;}

/*****
/* UWA Specific Styles */
/* SAGE(EH)05SEP2007 */
*****/

td.oseGO{}


a.oseGO{color:#606060;background:#dddddd;padding:2px 12px; border-top:1px solid #808080;border-left:1px solid #808080;border-bottom:1px solid #808080;border-right:1px solid #808080;width:380;font-size:15px;text-align:left;text-decoration:none;display:block;margin:0;}
a.oseGO:hover{color:#ffffff;padding:2px 12px; text-decoration:none;background:#698eb4;border-top:1px solid #808080;border-left:1px solid #808080;border-bottom:1px solid #808080;border-right:1px solid #808080;}
/*a.oseGO:hover{color:#606060;padding:2px 24px; text-decoration:none;border-top:1px solid #808080;border-left:1px solid #808080;border-bottom:1px solid #808080;border-right:1px solid #808080;color:#dddddd !important;}*/

td.oseTHE{}
a.oseTHE{color:#606060;
background:#dddddd;
padding:2px 12px;
border-top:1px solid #808080;
border-left:1px solid #808080;
border-bottom:1px solid #808080;
border-right:1px solid #808080;
width:350;font-size:15px;
text-align:left;
text-decoration:none;
display:block;
margin:0;}


a.oseTHE:hover{color:#ffffff;
padding:2px 12px;
text-decoration:none;
```

# Single Level Tabs

Plus Breadcrumbs for navigation

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[Course:](#) Medicine

Home Admin Educational Principles Generic Outcomes »Themes Search Maps

» Themes | Strands | Year Outcome | Unit Outcome

Home > Application Builder > Application 107 > Shared Components > **Tabs**

**Tabs** Edit Standard Tabs Edit Parent Tabs Utilization History

Click on a tab name to make a tab current. Once you select a tab you will be able to change that tab's properties.

Selected Pseudo Parent Tab: **TS1**

Select Standard Tab: **Themes**

Tab Current for Page: **54-Themes**

Tab also Current For Pages: **55, 56, 57, 53, 59**

TS1 Add

Home Admin Educational Principles Generic Outcomes  Themes Search Maps Add

54

Themes

53

Themes  
And  
Strands

55

Strands

57

Unit  
Outcomes


59

Specific  
Outcomes



# Single Level Tabs

Use links pages for additional options

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and Health Sciences

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Home » Admin Educational Principles Generic Outcomes Themes Search Maps

» Administration

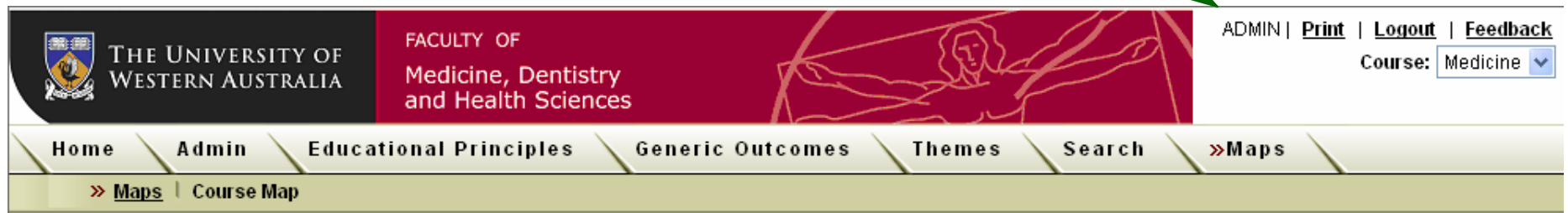
**Administration Tasks**

- [Admin Accounts](#)
- [Admin Roles](#)
- [Assessment Methods](#)
- [Assessment Types](#)
- [Courses](#)
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- [Feedback](#)
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- [Reference Codes](#)
- [Searchwords](#)
- [Themes](#)

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# Navigation Bar Entries

Print, Logout and Feedback link on all pages except printer friendly pages



Keep track of the last page so you can return to it

The screenshot shows a form for tracking the last page. It includes a 'Target type' dropdown set to 'Page in this Application', a 'Page' input field with the value '103', and checkboxes for 'reset pagination for this page' (checked) and 'Printer Friendly' (unchecked). Below these are fields for 'Request', 'Clear Cache', 'Set these items' (containing 'F\_LAST\_PAGE'), and 'With these values' (containing '&APP\_PAGE\_ID.'). A green arrow points from the text above to the 'Clear Cache' field. At the bottom, there is a table with a 'Sequence' column and a list of items.

Sequence						
10						
20	-	&LOGOUT_URL.	Logout	Logout	No	1
30	-	f?p=&APP_ID.:103:&SE	Feedback	Feedback	No	1
1 - 3						

# Page 0 Elements

Print link shown on all popup reports

Wizard suggests breadcrumbs on each page. Put on Page 0 instead

Copyright displayed at the bottom of each page

Course context updateable or display only on each page

**Regions**

**Display Point: After Header**

31	<input type="checkbox"/> <u>Rollover</u>	HTML (Column 2)	Conditional
----	--	-----------------	-------------

**Display Point: Page Template Body (1)** ▾ ▴

1	<input type="checkbox"/> <u>Print</u>	HTML	Conditional
41	<input type="checkbox"/> <u>Position</u>	HTML	

**Display Point: Region Position 01** ▾ ▴

1	▶▶▶ <u>Breadcrumbs</u>	<u>Breadcrumbs Entry</u>	Conditional
11	▶▶▶ <u>oseBreadcrumbs</u>	<u>Breadcrumbs Entry</u>	Conditional

**Display Point: Region Position 02**

51	<input type="checkbox"/> <u>Copyright</u>	HTML	Conditional
----	---	------	-------------

**Display Point: Region Position 08**

21	<input type="checkbox"/> <u>Course</u>	HTML	
----	--	------	--

**Buttons**

**Items**

**Region: Course** ▾ ▴ ☐ ☐ ☐ ☐

100	<u>PO COURSE</u>	Select List with Submit	Conditional
102	<u>PO COURSE NAME</u>	Display as Text (does not save state)	Conditional

# Browse Facility

- Allow users to drill through levels of information

## **Solution** – PL/SQL Region

JavaScript in custom file

Ajax call to on demand Application Process

Application Process calls rollover database package

Rollover HTML region on page 0





Edit Region - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4651:3350609925221349:::4651,960,420:F4000\_P4651\_ID:2622001472320640 Go

[Body] [Pos.1] [Pos.2] [Pos.3] [Pos.4]

Region HTML table cell attributes

Source

Region Source

```
SELECT the.name, the.seq , the.id, count(str.seq) "STR_SEQ"
FROM themes the, strands str
WHERE the.cou_seq = :PO_COURSE
AND the.seq = str.the_seq(+)
AND NVL(:P54_AS_AT_DATE,sysdate) between the.eff_from and NVL
(the.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND NVL(:P54_AS_AT_DATE,sysdate) between str.eff_from (+) and NVL(str.eff_to
(+),TO_DATE('01-JAN-3000','DD-MON-YYYY'))
GROUP BY the.name, the.seq , the.id
ORDER BY pk_admin.order_varchars(the.id)

loop
if c1.name is not null then

http.prn('<tr><td class="oseTHE">');
if c1.seq = :P54_SEQ then
http.prn('<a id="'||htf.escape_sc(c1.seq)||'" class="oseTHE"
href="javascript:log()" onclick="javascript:getStrandsForTheme
(this, '||''||htf.escape_sc(c1.seq)||''||'"
onmouseover="getStrandsForTheme
```

Do not validate PL/SQL code (parse PL/SQL code at runtime only).

Region Error Message

#SQLERRM#

PL/SQL region source

Routine in ose.js

ose.js - WordPad

File Edit View Insert Format Help

function getOutcomeDetails(pThis,pId){  
 var vAppProcess = 'GET\_GO\_DESC';  
 fDetail(pThis,pId,vAppProcess);  
}  
  
function getStrandsForTheme(pThis,pId){  
 var vAppProcess = 'GET\_STR\_FOR\_THE';  
 fDetail(pThis,pId,vAppProcess);  
}  
  
function getYosForStrand(pThis,pId){  
 var vAppProcess = 'GET\_YO\_FOR\_STR';  
 fDetail(pThis,pId,vAppProcess);  
}  
  
function getUosForYos(pThis,pId){  
 var vAppProcess = 'GET\_UO\_FOR\_YO';  
 fDetail(pThis,pId,vAppProcess);  
}  
  
function getSosForUos(pThis,pId){  
 var vAppProcess = 'GET\_SO\_FOR\_UO';  
 fSoDetail(pThis,pId,vAppProcess);  
}  
  
function fDetail(pThis,pId,pAppProcess){  
 this.dTimeout;  
 clearTimeout(this.dTimeout);  
 this.dGet = dGet;  
 this.dShow = dShow;  
 this.dCancel = dCancel;  
 var get = new htmlDb\_Get(null,\$x('pFlowId').value,'APPLICATION\_PROCESS='+pAppProcess,1);  
 this.dGet();  
 return;  
  
 function dGet(){

Application Processes [Utilization](#) [History](#)
 Application Process  View [Details](#) [Display](#) 15 [Go](#)
[Create >](#)

Sequence	Point	Name	Text
0	On Load After Header (page template header)	<a href="#">set_date_format1</a>	DECLARE v_sql VARCHAR....
0	On Submit After Page Submission - Before Computations and Validations	<a href="#">set_date_format2</a>	DECLARE v_sql VARCHAR....
1	On Demand Run this application process when requested by a page process.	<a href="#">GET_YO_FOR_STR</a>	pk_rollover.p_print_....
1	On Demand Run this application process when requested by a page process.	<a href="#">GET_UO_FOR_YO</a>	pk_rollover.p_print_....
1	On Demand Run this application process when requested by a page process.	<a href="#">GET_SO_FOR_UO</a>	pk_rollover.p_print_....
1	On New Session After Authentication	<a href="#">SET_COURSE</a>	:P0_COURSE := 1;....
1	On Demand Run this application process when requested by a page process.	<a href="#">getCourse</a>	DECLARE v_couList....
1	On Demand Run this application process when requested by a page process.	<a href="#">getTheme</a>	DECLARE v_themeLi....
1	On Demand Run this application process when requested by a page process.	<a href="#">getStrand</a>	DECLARE v_strList....
1	On Demand Run this application process when requested by a page process.	<a href="#">getLevel</a>	DECLARE v_levelLi....
1	On Demand Run this application process when requested by a page process.	<a href="#">getUnit</a>	DECLARE v_unitLi....
1	On Demand Run this application process when requested by a page process.	<a href="#">getStrandRep</a>	DECLARE v_strList....
1	On New Session After Authentication	<a href="#">setPrivs</a>	BEGIN -- change thi....
1	On Demand Run this application process when requested by a page process.	<a href="#">getunitforlevel</a>	DECLARE v_unitLi....
1	On Demand Run this application process when requested by a page process.	<a href="#">getThemeRep</a>	DECLARE v_theList....

1 - 15

[Download](#) | [Print](#)**Application Processes**

Application Processes run PL/SQL logic at specific points for each page in an application or as defined by the conditions under which they are set to fire. Note that "On Demand" processes fire only when called from specific pages.

## Application Process


Cancel

Delete

Apply Changes

[Show All](#) [Name](#) [Source](#) [Conditions](#) [Authorization](#) [Configuration](#) [Comments](#) [Subscription](#)

## Name

Application: **107 OUTCOMES and ASSESSMENTS**\* Sequence \* Process Point  \* Name \* Type  

## Application Processes

Application Processes can be used to perform actions required for every page. Application and page items can be referenced using :ITEM\_NAME (bind variable) syntax. The Process Text is treated as a PL/SQL anonymous block. Application Express will wrap a "begin" and "end;" around this code. If you need to declare local variables you will need to do so using a "declare", "begin" and "end" block.

## Source

\* Process Text

```
pk_rollover.p_print_yo_for_str;
```

```
CREATE OR REPLACE PACKAGE BODY "PK_ROLLOVER" as
```

```
procedure p_print_go_desc as
```

```
/*-----*\
```

```
Description: Generates the Source HTML to display the description of a  
Generic Outcome in a Popup Window  
OSE Apex Page 52
```

```
Change History
```

```
Version Date Modified Modified by Reason
```

```
1.0 12-09-2007 EHarris(SAGE) Initial Version.
```

```
\*-----*/
```

```
l_counter NUMBER;
```

```
l_o_name VARCHAR2(2000);
```

```
BEGIN
```

```
FOR rec IN
```

```
(SELECT pk_out.splitext(go.outcome_desc) outcome_desc
```

```
FROM outcomes go
```

```
WHERE go.seq = v('TEMP_ID')
```

```
AND NVL(v('P52_AS_AT_DATE'),sysdate) between trunc(go.eff_from) and NVL(go.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY')))
```

```
LOOP
```

```
http.prn('<table summary="">');
```

```
http.prn('<tr><th colspan="2">||' || '</th></tr>');
```

```
http.prn('<tr><th></th><td width="100%"><i>' || rec.outcome_desc || '</i></td></tr>');
```

```
http.prn('<tr><td colspan="2" style="border-top: 1px solid black;padding:5px 0 0 0;white-space:wrap">');
```

```
http.prn('</td></tr>');
```

```
http.prn('</table>');
```

```
END LOOP;
```

```
end p_print_go_desc;
```

```
procedure p_print_so_for_uo as
```


```
/*-----*\
```

```
Description: Generates the Source HTML to display Specific Unit  
Outcomes for a Unit Outcomee in a Popup Window  
OSE Apex Page 57
```


```
Change History
```

```
Version Date Modified Modified by Reason
```

## Application Items History

 Application Item  View Details  

Name	Computed On
<a href="#">F107_CURRENT_COURSE</a>	Page:
<a href="#">F107_CURRENT_LEVEL</a>	Page:
<a href="#">F107_CURRENT_UNIT</a>	Page:
<a href="#">F107_CURRENT_UNIT_OUTCOME</a>	Page:
<a href="#">FSP_AFTER_LOGIN_URL</a>	Page:
<a href="#">F_ACCESS</a>	Page:
<a href="#">F_ADMIN</a>	Page:
<a href="#">F_APP5</a>	Page:
<a href="#">F_APP6</a>	Page:
<a href="#">F_COURSE</a>	Page:
<a href="#">F_COURSE_NAME</a>	AFTER_HEADER Page:
<a href="#">F_LAST_PAGE</a>	Page:
<a href="#">F_STRAND</a>	Page:
<a href="#">F_STRAND_NAME</a>	AFTER_HEADER Page:
<a href="#">F_THEME</a>	Page:

row(s) 1 - 15 of 22 

Use application items  
to record context



## Application Items

Use Application Items to maintain session state. Application Items can be set using computations, processes, or by passing values on a URL. Use "On New Instance" computations to set the value of items once for a session. Use Application Items to maintain session state that is not displayed and is not specific to any one page.

[Download](#) | [Print](#)[Existing Application Level Computations](#)

Language: en-au

Application Express 3.0.0.00.20

Workspace: UWA\_OSE User: ADMIN

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# Maintenance of Outcomes

- Data entry/maintenance of Outcomes text
- Link outcomes
- Link search terms from Thesaurus
- Thesaurus maintenance

**Solution** – built in Apex Editor features

(Issue – bug in I.E.)

You don't have to accept the wizard approach  
of one thing on a page

Keywords tree + JavaScript coding




# Flexible Reporting

- Add selection criteria
- Select the columns to display
- Report as at date
- Export to Excel
- PDF format
- Issues
  - Order varchar's as if they were number

**Solution** – Built in Apex features  
+ some Ajax  
+ custom ordering function





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Medicine, Dentistry  
and Health SciencesADMIN | [Print](#) | [Logout](#) | [Feedback](#)Course: [Medicine](#)[Home](#)[Admin](#)[Educational Principles](#)[Generic Outcomes](#)[Themes](#)[Search](#)[»Maps](#)[» Maps](#) | [Course Map](#)As At Date  Teaching, Learning Experiences? ☐Assessments? ☐Theme [-All Themes-](#)Strand [-All Strands-](#)Level [-All Levels-](#)Assessment Form [-All Forms-](#)Assessment Method [-All Methods-](#)[Assessment  
Descriptions](#)[Go](#)

## Course Map for Medicine

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Theme	Strand	Level	Year Outcome	Unit Code	Unit Name	Unit Outcome
Scientific Basis of Medicine	The Scientific and Evidence Base of Medicine	Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	2:Identify and discuss the major causes of ill health, considering both the national and international perspective
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	4:Identify and describe determinants of health and approaches to population and individual health
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	8:Identify and describe uses and techniques of epidemiological studies and research methods as relevant to medical practitioners
	Normal Structure and Function	Level:1	Demonstrate knowledge of aspects of normal human structure, function and development	IMED1100	Normal Systems	1:Describe the normal structure and function of the cardiovascular system
		Level:1	Demonstrate knowledge of aspects of normal human structure, function and development	IMED1100	Normal Systems	3:Describe the normal structure and function of the respiratory system

Course Map - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address <http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=107:70:3350609925221349::NO::> Go Links


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Course: [Medicine](#)

Home Admin Educational Principles Generic Outcomes Themes Search >>Maps

>> Maps | Course Map

As At Date

Teaching, Learning Experiences? ☒ Assessments? ☐

Conditional Display

Condition Type  
PL/SQL Expression

[PL/SQL] [Item=value] [Item not null] [request=e1] [page in] [page not in] [exists] [none] [never]

Expression 1  
:P70\_TLE='Y'

Expression 2

-All Strands- Level -All Levels-  
-All Methods- Assessment Descriptions

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Unit Outcome						Teach Learn Experiences
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	2:Identify and discuss the major causes of ill health, considering both the national and international perspective Lectures Tutorials Clinical Skills
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	4:Identify and describe determinants of health and approaches to population and individual health Lectures Tutorials
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	8:Identify and describe uses and techniques of epidemiological studies and research methods as relevant to medical practitioners Lectures Tutorials
	Normal Structure and Function	Level:1	Demonstrate knowledge of aspects of normal human structure, function and development	IMED1100	Normal Systems	1:Describe the normal structure and function of the cardiovascular system Lectures Laboratories
		Level:1	Demonstrate	IMED1100	Normal	3:Describe the normal structure and Lectures

Done Internet

Choose report contents

Course Map - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail Wordpad

Address <http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=107:70:3350609925221349:::> Go Links

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Feedback Course: **medicine**

Home Admin Educational Principles Generic Outcomes Themes Search >>Maps

>> Maps | Course Map

As At Date: 12-NOV-2007

Teaching, Learning Experiences? ☒

Assessments? ☐

Theme: Doctor, Health and Society

Strand: Aboriginal and Torres Strait Islander Health

Level: -All Levels-

HTML Form Element Attributes: `onchange="javascript:restrictStrand(this,'P70_STRAND');"`

Assessment Method: **Aboriginal and Torres Strait Islander Health**

Assessment Descriptions

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### Course Map for Medicine

Theme	Strand	Level	Year Outcome	Unit Code	Unit Name	Unit Outcome	Teach Learn Experiences
Scientific Basis of Medicine	The Scientific and Evidence Base of Medicine	Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	2:Identify and discuss the major causes of ill health, considering both the national and international perspective	Lectures Tutorials Clinical Skills
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	4:Identify and describe determinants of health and approaches to population and individual health	Lectures Tutorials
		Level:1	Explain scientific processes as applied too scientific and medical knowledge	IMED1111	Foundations of Clinical Practice	8:Identify and describe uses and techniques of epidemiological studies and research methods as relevant to medical practitioners	Lectures Tutorials
	Normal Structure and Function	Level:1	Demonstrate knowledge of aspects of normal human structure, function and development	IMED1100	Normal Systems	1:Describe the normal structure and function of the cardiovascular system	Lectures Laboratories

Internet

Ajax for dependent LOV

Edit Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address [http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4301:3350609925221349::NO::F4000\\_P4301\\_ID,FB\\_FLOW\\_ID:70,107#HH](http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4301:3350609925221349::NO::F4000_P4301_ID,FB_FLOW_ID:70,107#HH)

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 107 > Page 70 > Edit Page Page 70

Page Attributes: 50 of 61 Cancel Delete Apply Changes < >

Show All Name Display Attributes Header and Footer HTML Header HTML Body Attribute Security Duplicate Cache Configuration Error Help Comments

### HTML Header

```
HTML Header
<script language="JavaScript" type="text/javascript">
<!--
function restrictStrand (theId, strList)
{
    var strListObj = document.getElementById(strList);
    var curListObj = document.getElementById('P70_AS_AT_DATE');

    var ajaxRequest = new
        htmldb_Get
    (null,&APP_ID., 'APPLICATION_PROCESS=getStrandRep', 0);

    var theme = html_SelectValue(theId);
    var cur = html_SelectValue(curListObj);

    ajaxRequest.add('P70_THEME', theme);
    ajaxRequest.add('P70_AS_AT_DATE', cur);
    ajaxResult = ajaxRequest.get();

    if (ajaxResult)
```

Language: en-au Application Express 3.0.0.00.20

Workspace: UWA\_OSE User: ADMIN Copyright © 1999, 2007, Oracle. All rights reserved.

Done Internet

Edit Application Process - Microsoft Internet Explorer

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Address [http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4309:3350609925221349::NO::F4000\\_P4309\\_ID:6715332245750304](http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4309:3350609925221349::NO::F4000_P4309_ID:6715332245750304)

### Name

Application: **107 OUTCOMES and ASSESSMENTS**

\* Sequence:

\* Process Point: On Demand: Run this application process when requested by a page process. ▼

\* Name:

\* Type: PL/SQL Anonymous Block ▼

### Source

\* Process Text

```
DECLARE
  v_strList VARCHAR2(32000) := '-1|-All Strands-';

  CURSOR c_str (p_the themes.seq*TYPE,p_current VARCHAR2) IS
  SELECT '*endrec*' || s.seq || '||' || s.name listentry
  FROM   strands s
  WHERE  the_seq = p_the
  AND    nvl(p_current,sysdate) between eff_from and nvl(eff_to,sysdate)
  ORDER BY s.name;
BEGIN
  BEGIN
    FOR   r_str in c_str (:P70_THEME,:P70_AS_AT_DATE) LOOP
      v_strList := v_strList || r_str.listentry;
    END LOOP;
  END;
```

Process Error Message

Done Internet

page items can be referenced using :ITEM\_NAME (bind variable) syntax. The Process Text is treated as a PL/SQL anonymous block. Application Express will wrap a "begin" and "end," around this code. If you need to declare local variables you will need to do so using a "declare", "begin" and "end" block.



Course Map - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Home Admin Education

» Maps Course Map

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Course: [Medicine](#)

Themes Themes Search » Maps

As At Date: 12-NOV-2007

Theme: [Doctor, Health and Society](#)

Assessment Form: [-All Forms-](#)

Assessment Method: [-All Methods-](#)

Assessments? ☐

Strand: [-All Strands-](#) Level: [-All Levels-](#)

Assessment Descriptions

Course Map for Medicine

[Download to Excel](#) | [Download as PD](#)

Theme	Strand	Level	Year Outcome	Unit Code	Unit Name	Unit Outcome	Teach Learn Experiences
Doctor, Health and Society	Organisation of Health Care	Level:1	Describe the organization of health care for individuals and groups	IMED1111	Foundations of Clinical Practice	6:Describe the organisation of health care for individuals and groups in Australia	Lectures Tutorials Clinical Skills Patient Visit
		Level:1	Describe the organization of health care for individuals and groups	IMED1111	Foundations of Clinical Practice	7:Describe the principles and strategies for health maintenance, promotion and disease prevention	
		Level:1	Describe the organization of health care for individuals and groups	IMED1111	Foundations of Clinical Practice	9:Describe the methods and techniques used in communicable disease control and disease surveillance	Lectures Tutorials
	Population Perspective on Health	Level:1	Define some health promotion strategies for specific major health issues in Australian populations	IMED1111	Foundations of Clinical Practice	7:Describe the principles and strategies for health maintenance, promotion and disease prevention	
	Aboriginal and	Level:1	Explain the impact of historical.	IMED1111	Foundations of	11:Describe and discuss some	Lectures

Internet

Data is date dependent

Edit Region - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Search

Favorites

Media

Address [http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4651:3350609925221349:::4651,960,420:F4000\\_P4651\\_ID:3162321870028259](http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:4651:3350609925221349:::4651,960,420:F4000_P4651_ID:3162321870028259) Go Links

Region HTML table cell attributes

Source

Region Source

```
AND    uo.seq = uyo.out_seq_unit
AND    uo.source_seq = uni.seq
AND    cl.seq = uni.cl_seq
AND    (the.seq = :P70_THEME OR :P70_THEME = -1)
AND    (cl.seq = :P70_YEAR OR :P70_YEAR = -1)
AND    (str.seq = :P70_STRAND OR :P70_STRAND = -1)
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(the.eff_from) and NVL
(the.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(str.eff_from) and NVL
(str.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(yo.eff_from) and NVL
(yo.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(uyo.eff_from) and NVL
(uyo.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(uni.eff_from) and NVL
(uni.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(uo.eff_from) and NVL
(uo.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
AND    NVL(:P70_AS_AT_DATE,sysdate) between trunc(cl.eff_from) and NVL
(cl.eff_to,TO_DATE('01-JAN-3000','DD-MON-YYYY'))
```

☒ Use Query-Specific Column Names and Validate Query

☐ Use Generic Column Names (parse query at runtime only)

Maximum number of generic report columns:  
80

Region Error Message  
#SQLERRM#

# Managing Printing

- Print from each page

**Solution** – Navigation bar print link

Redisplay the current page

Printer friendly = YES

Conditional content based on REQUEST





THE UNIVERSITY OF  
WESTERN AUSTRALIAFACULTY OF  
Medicine, Dentistry  
and Health SciencesADMIN | [Print](#) | [Logout](#) | [Feedback](#)  
[Course:](#) Medicine[Home](#)[Admin](#)[Educational Principles](#)[Generic Outcomes](#)[»Themes](#)[Search](#)[Maps](#)[» Themes](#) | [Strands](#) | [Year Outcome](#)**As At Date** 12-NOV-2007 (return to the Themes screen to change the date) Click on the Print link to obtain a listing in print format.**Outcome: Describe some normal compensatory mechanisms****IMED1100 - Normal Systems**

Describe the normal structure and function of the cardiovascular system

Describe the normal structure and function of the respiratory system

**IMED1107 - Foundations of Medical Chemistry**

Explain and describe stereochemistry and its relevance in biological systems

Explain and describe the polymeric nature of biologically important macromolecules and the structure of the monomeric constituents

Explain and describe that the laws of thermodynamics apply to both living and nonliving systems and that living systems do not break the 2nd law of thermodynamics when they spontaneously create order within themselves

Describe and demonstrate the properties of chemical and biological systems in terms of equilibrium processes and steady state processes

Recognise the importance of colligative properties in medicine and everyday life

## Target

Target type \* Page  ( ☐ reset pagination for this page ) ( ☐ Printer Friendly )Request Clear Cache  (comma separated page numbers)Set these items  (comma separated name list)With these values  (comma separated value list)

## \* URL Target

```
javascript:popUp3('f?p=107:UO:3350609925221349:::F_YO:2779,1000,400,200,50');
```

Unit Outcomes - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back

Address http

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FACULTY OF Medicine, Dentistry and Health Sciences

ADMIN  
Course: Medicine

Print

Home

As At Date 12-NOV-2007

Unit and Specific Outcomes for Describe some normal compensatory mechanisms

Id	Unit Outcome	Id	Specific Outcome
1.IMED1100.1 - Normal Systems	Describe the normal structure and function of the cardiovascular system	1.IMED1100.1.1	Describe the nature and composition of human body fluid compartments as relating to the cardiovascular system
		1.IMED1100.1.2	Describe the physiology and anatomy of the cardiovascular system, including : - the histological structure of the arteries, lymphatics and veins, cardiac muscle - the cardiac cycle and the heart as a pump - internal structure of the heart, valves and valve sounds - the blood supply of the heart and its relation to heart attack - the electrical activity of the heart, the normal ECG, myocardial oxygen consumption and supply via the coronary circulation. - the dynamics of the peripheral circulation, determinants of arterial blood pressure, - regulation of cardiac output and arterial blood pressure. - the main arteries and veins and the role of anastomoses around joints - the microcirculation, capillary function - venous and lymphatic systems, the portal venous system - blood flow through special regions: cerebral, limb and pulmonary circulations - regulation of regional blood flow and integrated responses of the circulation. - some understanding of the features and causes of abnormal cardiac performance : - arrhythmias and cardiac failure - mediastinum - embryological origins of anatomical structures
		1.IMED1100.1.3	Recognise the variability of human structure, physiology and biochemistry
		1.IMED1100.1.4	Recall normal ranges for important physiological variables
		1.IMED1100.1.5	Recognize values that fall outside normal range for important physiological variables

Explain and describe that the laws of thermodynamics apply to both living and nonliving systems and that living systems do not break the 2nd law of thermodynamics when they spontaneously create order within themselves

Describe and demonstrate the properties of chemical and biological systems in terms of equilibrium processes and steady state processes

Recognise the importance of colligative properties in medicine and everyday life

http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=107:SUO:3350609925221349::::F\_UO,F\_UO\_TEXT:112ose.js - WordPad importance o Internet

## Page Rendering



### Page

Page Name: [Unit Outcomes](#) Template: [Application default](#)  
 Title: [Unit Outcomes](#) Header Text:  
 HTML Header: [<script src="/i/javascript/ose](#) Footer Text:  
 HTML Body: Build Option:  
 Help Text: Authorization: [No](#)  
 Page Group: Cached: [No](#)

### Regions

#### Display Point: Page Template Body (1)

10 ☐ [Parameters](#) HTML

#### Display Point: Page Template Body (2)

20 ☐ [Outcome: &F YO TEXT.](#) HTML

#### Display Point: Page Template Body (3)

30 ☒ [Unit Outcomes for &F YO TEXT.](#) PL/SQL

40 ☐ [Specific Outcomes](#) HTML (Column 2) Never

50 ☒ [Unit and Specific Outcomes for &F YO TEX Report](#) Conditional

### Buttons

### Items

#### Region: [Parameters](#)

20 [P57 AS AT DATE](#) Display as Text (does not save state) Conditional  
 30 [P57 HINT](#) Display as Text (does not save state) Conditional  
 40 [P57 AS AT DATE PRINT](#) Display as Text (does not save state) Conditional

#### Region: [Unit Outcomes for &F YO TEXT.](#)

10 [P57 SEQ](#) Hidden

## Page Processing



### Computations

### Validations

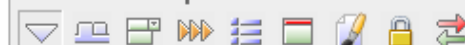
### Processes

### Branches

#### After Processing

10 [Go To Page 57 Unconditional](#)

## Shared Components



### Tabs

Tab Set: [TS1](#)

[Home](#)  
[Admin](#)  
[Educational Principles](#)  
[Generic Outcomes](#)  
[Themes](#)  
[Search](#)  
[Maps](#)

### Lists of Values



[S](#)

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## Oracle Openworld Quotes

Americans are generally far more courteous and better mannered than most English people these days???

There was no chocolate tower, which I really liked last year

Strut Your Stuff at the Oracle OpenWorld Unconference

Don't miss Larry's stories about the birth of Oracle; plus Oracle comedians

# Search Engine

- Dependent LOV's
- Multiple values for selection criteria
- Select terms from Thesaurus
- Exact search
- Fuzzy search
- Assigned search terms
- Text search
- AND/OR

**Solution** – the PL/SQL procedure from hell



Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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THE UNIVERSITY OF WESTERN AUSTRALIA

FACULTY OF Medicine, Dentistry and Health Sciences

Home Admin Educational Principles Generic Outcomes Themes » Search Maps

» Search

**Search Criteria**

**Date Range** Current records only

**Course** - All Courses -  
D-Dentistry  
M-Medicine

**Theme** - All Themes -  
M-Doctor and Patient  
M-Doctor, Health and Society

**Strand** -Select a Strand-  
M - Aboriginal and Torres Strait Islander Health  
M - Communication

**Level** - All Levels -  
M - Level: 1  
M - Level: 2

**Unit** - All Units -  
IMED1100-Normal Systems  
IMED1106-Foundations of Animal and Human Biology

```
-- add theme parameter
IF p_theme_seq != '1' THEN
  v_sql := v_sql || ' AND ((o.str_seq IN (SELECT s.seq FROM strands s '
  || ' WHERE instr("||replace(:P2_THEME, ',' || '||s.the_seq||') > 0)) '
  || ' OR (o.out_type = pk_out.getUnitOutcomeType AND o.seq IN '
  || ' (SELECT uy.out_seq_unit FROM strands s, outcomes y, unit_year_outcomes uy '
  || ' WHERE instr("||replace(:P2_THEME, ',' || '||s.the_seq||') > 0 AND s.seq = y.str_seq '
  || ' AND y.seq = uy.out_seq_year )) '
  || ' OR (o.out_type = pk_out.getSpecificUnitOutcomeType AND o.source_seq IN '
  || ' (SELECT uy.out_seq_unit FROM strands s, outcomes y, unit_year_outcomes uy '
  || ' WHERE instr("||replace(:P2_THEME, ',' || '||s.the_seq||') > 0 '
  || ' AND s.seq = y.str_seq AND y.seq = uy.out_seq_year )) )';
```

Any of these search words

**Search Text**

Exact words only

**Source**

```
Region Source
RETURN pk_search_results.getOutcomeResults
(:P2_COURSE, :P2_THEME, :P2_STRAND, :P2_LEVEL, :P2_UNIT, ltrim(rtrim
(:P2_SEARCHWORDS, ','), ','), :P2_CRITERIA, :P2_TEXT);
```

Search Clear



```

v_sql := 'SELECT pk_search.getCourse(o.seq) course, '
||'pk_search.getOutcomeTypeText(o.seq)||" Outcome" typetext,'
||'pk_Search.getOutcomeTypeContext(o.seq) context,'
||'pk_admin.getparent(o.seq)||o.id id,'
||' decode(:REQUEST,"SHOW_REPORT", '
||'o.outcome_text||decode(:P2_CURRENT,"C",null," (from: "||eff_from||decode(eff_to,null,")," to:"||eff_to||")" ) )',
||' decode(o.out_type,pk_out.getYearOutcomeType, '
||' "<a

```

```

href=""?p=&APP_ID::UO:&APP_SESSION:::F_STRAND,F_YO,F_YO_TEXT,P57_SEQ,F_THEME,F_THEME_NAME,F_STRAND_NAME,P54_AS
AT_DATE:"||o.str_seq||","||o.seq||","||o.outcome_text||","||o.seq||","||pk_search.gettheforstrand(o.str_seq)||","||pk_Search.gettheforstrand(o.str_seq)||","||pk_Search.gettheforstrand(o.str_seq)||","||pk_search.getstrandname(o.str_seq)||","||decode(o.eff_to,null,sysdate,o.eff_from)||"">"|| '
||' o.outcome_text||decode(:P2_CURRENT,"C",null," (from: "||eff_from||decode(eff_to,null,")," to:"||eff_to||")" ) )'
||' "</a>"
||',pk_out.getGraduateOutcomeType, '
||' "<a

```

```

href=""?p=&APP_ID::UO:&APP_SESSION:::F_STRAND,F_YO,F_YO_TEXT,P57_SEQ,F_THEME,F_THEME_NAME,F_STRAND_NAME,P54_AS
AT_DATE:"||o.str_seq||","||o.seq||","||o.outcome_text||","||o.seq||","||pk_search.gettheforstrand(o.str_seq)||","||pk_Search.gettheforstrand(o.str_seq)||","||pk_Search.gettheforstrand(o.str_seq)||","||pk_search.getstrandname(o.str_seq)||","||decode(o.eff_to,null,sysdate,o.eff_from)||"">"|| '
||' o.outcome_text||decode(:P2_CURRENT,"C",null," (from: "||eff_from||decode(eff_to,null,")," to:"||eff_to||")" ) )'

```


	Health			community
	Doctor and Patient > Practical Procedures > Level:1	Year Outcome	7.1.1	<u>Outline how to perform some essential and desirable practical procedures</u>
	Doctor and Patient > Communication > Level:1		8.1.1	<u>Use appropriate vocabulary of basic and clinical sciences</u>
	Doctor and Patient > Health Maintenance, Promotion and Disease Prevention > Level:1		9.1.1	<u>Describe some strategies for health maintenance, promotion and disease prevention</u>
	Doctor, Health and Society > Organisation of Health Care > Level:1		10.1.1	<u>Describe the organization of health care for individuals and groups</u>
	Doctor, Health and Society > Population Perspective on Health > Level:1		11.1.1	<u>Define some health promotion strategies for specific major health issues in Australian populations</u>
	Doctor, Health and Society > Aboriginal and Torres Strait Islander Health > Level:1		12.1.1	<u>Explain the impact of historical, cultural and social factors on Aboriginal and Torres Strait Islander peoples, health and health care</u>
	Level:1 > Outline how to perform some essential and desirable practical procedures > IMED1100	Unit Outcome	1.IMED1100.2	<u>Demonstrate how to perform some procedures and practical skills</u>
	Level:1 > Use appropriate vocabulary of basic and clinical sciences > IMED1100		1.IMED1100.6	<u>Use appropriate vocabulary of biological and chemical sciences relating to medicine</u>
	Level:1 > Use appropriate vocabulary of basic and clinical sciences > IMED1106		1.IMED1106.8	<u>Use vocabulary and language appropriate to biological sciences and medicine</u>
			1.IMED1106.9	<u>Demonstrate concise and effective verbal and written communication skills</u>
	Level:1 > Use appropriate vocabulary of basic and clinical sciences > IMED1107		1.IMED1107.9	<u>Use vocabulary and language appropriate to biological sciences and medicine</u>

Specific Outcomes - Microsoft Internet Explorer

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 THE UNIVERSITY OF WESTERN AUSTRALIA

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[Course:](#) Medicine

Home Admin Educational Principles Generic Outcomes >>Themes Search Maps

>> Themes | Strands | Year Outcome | Unit Outcome

**As At Date** 12-NOV-2007 (return to the Themes screen to change the date) Click on the Print link to obtain a listing in print format.













**Specific Outcomes for Unit Outcome**

1.IMED1100.2 - Demonstrate how to perform some procedures and practical skills

- 1.IMED1100.2.1. Measure blood pressure by the auscultatory and palpatory methods
- 1.IMED1100.2.2. Conduct simple blood group tests
- 1.IMED1100.2.3. Identify components of the thoracic cavity
- 1.IMED1100.2.4. Dissect a sheep heart
- 1.IMED1100.2.5. Recognise the main features of the dissected heart and correlate these to the human heart
- 1.IMED1100.2.6. Locate the positions on the chest where each heart valve can be auscultated
- 1.IMED1100.2.7. Measure heart rate using ECG
- 1.IMED1100.2.8. Measure respiratory rate

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Medicine, Dentistry  
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D-Dentistry  
M-Medicine **Theme** - All Themes -  
M - Doctor and Patient  
M - Doctor, Health and Society **Strand** - All Strands -  
M - Aboriginal and Torres Strait Islander Health  
M - Communication **Level** - All Levels -  
M - Level: 1  
M - Level: 2 **Unit** - All Units -  
IMED1100-Normal Systems  
IMED1106-Foundations of Animal and Human Biology **Selected Thesaurus Terms**Any of these search words **Search Text**Exact words only **Generic Outcome** - All Generic Outcomes -  
Creativity and Innovation  
Critical Thinking and Problem-Solving Skills **Display Outcome Search terms in Results** ☐[Search](#) [Clear](#)

Search - Microsoft Internet Explorer

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THE UNIVERSITY OF WESTERN AUSTRALIA

Home Admin E

>> Search

Search Criteria

Date Range Current records o

Course

- All Courses -
- D-Dentistry
- M-Medicine

Theme

- All Themes -
- M - Doctor and Pa
- M - Doctor, Health

Strand

- All Strands -
- M - Aboriginal and
- M - Communicatio

Level

- All Levels -
- M - Level: 1
- M - Level: 2

Unit

- All Units -
- IMED1100-Norma
- IMED1106-Found

Select Searchwords - Microsoft Internet Explorer

Searchwords

Select Cancel

Classification Analytical, Diagnostic and Therapeutic Techniques and Equipment

Selected Terms

Analytical, Diagnostic and Therapeutic Techniques and Equipment ☐ .(up)

- investigative techniques ☐
- Therapeutics ☐
- surgical procedures, operative ☐
- diagnosis ☐
- equipment and supplies ☐

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Home Application 107 Edit Page 25 Create Session Activity Debug Show Edit Links

Search Clear

javascript:popUp3('f?p=107:25:3350609925221349::NO:25::',700,600,200,50);

Internet

Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://sage2.sagecomputing.com>

Go Links

**Search Criteria**

**Date Range** Current records only

**Course** - All Courses -  
D-Dentistry  
M-Medicine

**Theme** - All Themes -  
M - Doctor and Patient  
M - Doctor, Health and Society

**Strand** - All Strands -  
M - Aboriginal and Torres Strait Islander Health  
M - Communication

**Level** - All Levels -  
M - Level: 1  
M - Level: 2

**Unit** - All Units -  
IMED1100-Normal Human Physiology  
IMED1106-Fundamentals of Medicine

**by Course and Year**

**Search Results by Course and Year**

Course	Course Map	Graduate Outcome	1	Use effective communication skills and styles
M-Medicine	Doctor and Patient > Communication	Graduate Outcome	1	Use effective communication skills and styles

javascript:popUp3('f?p=107:25:3350609925221349::NO:25::',700,600,200,50);

Internet

**Select Searchwords - Microsoft Internet Explorer**

**Searchwords** [Select] [Cancel]

**Classification** Biological Sciences

**Selected Terms**

- /Analytical, Diagnostic and Therapeutic Techniques and Equipment/investigative techniques
- Biological Sciences/biological phenomena, cell phenomena, and immunity
- Biological Sciences/physiological processes

Biological Sciences ☐ (up)

- biological phenomena, cell phenomena, and immunity ☒
- biochemical phenomena, metabolism, and nutrition ☐
  - cell metabolism ☐
- physiological processes ☒
- biological phenomena, cell phenomena, and immunity ☐
  - immunity ☐
  - cell communication ☐
  - cell cycle ☐
- genetic structures ☐
- genetic phenomena ☐
- genetic processes ☐
- genetics ☐
- biochemistry ☐
- biochemical phenomena, cell phenomena, and immunity ☐
- musculoskeletal, neural, and ocular physiology ☐
- biological phenomena ☐
- circulatory and respiratory physiology ☐
- evolution ☐

## Search Criteria

[Search Tips](#) [Thesaurus](#)

**Date Range** Current records only

**Course**

- All Courses -  
D-Dentistry  
M-Medicine

**Theme**

- All Themes -  
M - Doctor and Patient  
M - Doctor, Health and Society

**Strand**

- All Strands -  
M - Aboriginal and Torres Strait Islander Health  
M - Communication

**Level**

- All Levels -  
M - Level: 1  
M - Level: 2

**Unit**

- All Units -  
IMED1100-Normal Systems  
IMED1106-Foundations of Animal and Human Biology

### Selected Thesaurus Terms

/Analytical, Diagnostic and  
Therapeutic Techniques and  
Equipment/investigative techniques,  
Biological Sciences/biological  
phenomena, cell phenomena, and  
immunity,

Any of these search words

### Search Text

Exact words only

### Generic Outcome

- All Generic Outcomes -  
Creativity and Innovation  
Critical Thinking and Problem-Solving Skills

**Display Outcome Search terms in Results** ☐

Search Clear

by Course and Year

by Faculty Generic Outcome

Both



### Search Results by Course and Year

Course	Course Map	Type	Outcome Id	Outcome
M-Medicine	Doctor and Patient > Communication	Graduate Outcome	1	<u>Use effective communication skills and styles</u>



## Tree

Cancel

Delete

Apply Changes

Show All

Name

Query

Before and After

Static Node Templates

Dynamic Templates

Node Text Template

Link Templates

## Name

Application: 107 OUTCOMES and ASSESSMENTS

\* Tree Name Searchwords\_Select

\* Tree Type Dynamic- From SQL Query

\* Max Levels 5

\* Application Item P25\_TREE\_ROOT

## Trees

Specify Tree attributes.

Trees are based on a query and return data that can be represented in a hierarchy.

## Query

\* Tree Query

```
select "ID" id,
       "PID" pid,
       "NAME" name,
       null link,
       decode(id,-1,null,apex_item.checkbox(9,id)||'|'||
             path , 'id='||rownum||'" onclick="javascript:addWord
(this,'P25_WORDS');"') a1,
       null a2
from "#OWNER#". "SEARCH_TREE"
WHERE classification = :P25_TREE_ROOT
```

Page Attributes: 26 of 61

Cancel

Delete

Apply Changes

&lt; &gt;

Show All

Name

Display Attributes

Header and Footer

HTML Header

HTML Body Attribute

Security

Duplicate

Cache

Configuration

Error

Help

Comments

## HTML Header

HTML Header

```
<script language="JavaScript1.1" type="text/javascript">
<!--
function addWord (word, wordList)
{
    var wordListObj = document.getElementById(wordList);
    var wordVal = word.value;
    var wordArray = wordVal.split("|");
    var i = wordListObj.options.length;

    wordListObj.options[i] = new Option(wordArray[1], wordArray[0]);
    wordListObj.options[i].selected=true;
}
//-->
</script>

<script language="JavaScript1.1" type="text/javascript">
<!--
function passBackWords()
{
    var wordListObj = document.getElementById('P25_WORDS1');
```

Page Attributes: 26 of 61

Cancel

Delete

Apply Changes

&lt; &gt;

Show All

Name

Display Attributes

Header and Footer

HTML Header

HTML Body Attribute

Security

Duplicate

Cache

Configuration

Error

Help

Comments

## HTML Header

## HTML Header

```
<script language="JavaScript1.1" type="text/javascript">
<!--
function passBackWords()
{
    var wordArray = document.getElementById('P25_WORDS');
    var searchObj = opener.document.getElementById('P2_SEARCHWORDS');
    var searchTextObj = opener.document.getElementById('P2_TERMS');
    var vcount = wordArray.options.length;

    searchObj.value = "";
    searchTextObj.value = "";

    for (i = 0; i < vcount; i++)
    {
        if (wordArray.options[i].text.length > 0 )
        {searchObj.value = searchObj.value + wordArray.options[i].value + ":";
        searchTextObj.value = searchTextObj.value + wordArray.options[i].text
        + ",\r";
        }
    }
}
```





## Oracle Openworld Blogs

In the bar we saw Doug Burns and Chris Muir and joined them

Who should walk up to me in the pub than Chris Muir

Chris walked to the Irish pub

Quick Interview at Oracle OpenWorld: Oracle Aces  
Having a Beer (guess who)

I'm losing track of the days now



# User Entered Help Text

- Users would need to use Apex to enter item help text

**Solution** – Custom table

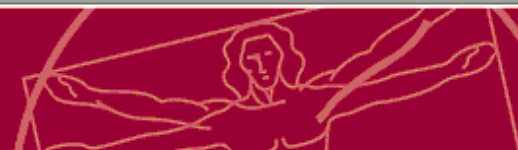
View of APEX\_APPLICATION\_PAGE\_ITEMS

Provide maintenance pages

Provide popup page to view help

Replace popupFieldHelp



THE UNIVERSITY OF  
WESTERN AUSTRALIAFACULTY OF  
Medicine, Dentistry  
and Health SciencesADMIN | [Print](#) | [Logout](#) | [Feedback](#)

Home

&gt;&gt; Admin

Educational Principles

Generic Outcomes


Themes

Search








Maps

>> [Administration](#) | [Help Text](#)

## Page

Page Form on UNITS 

## Report on Item Help

Edit	Page Name	Item Name	Label	Item Help Text
	Form on UNITS	P9_CODE	Code	
	Form on UNITS	P9_CL_SEQ	Course Level:	
	Form on UNITS	P9_COU_SEQ	Course:	
	Form on UNITS	P9_EFF_FROM	Effective From	
	Form on UNITS	P9_EFF_TO	Effective To	
	Form on UNITS	P9_NAME	Name	<b>This is help for the unit name</b>  There may be synonyms for this unit
	Form on UNITS	P9_UNIT_TYPE	Unit Type	

1 - 7

THE UNIVERSITY OF  
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Medicine, Dentistry  
and Health SciencesADMIN | [Print](#) | [Logout](#) | [Feedback](#)

Home

&gt;&gt; Admin

Educational Principles

Generic Outcomes

Themes

Search

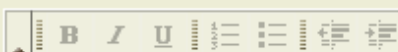
Maps

>> [Administration](#) | [Help Text](#) | [Manage Help Text](#)

## Item Help

Cancel

Apply Changes

**Item** Form on UNITS : Name(P9\_NAME)**This is help for the unit name**

There may be synonyms for this unit

**Item Help Text**© 2007 UWA | [Disclaimer](#) [Contact us](#)[Home](#) [Application 107](#) [Edit Page 49](#) [Create](#) [Session](#) [Activity](#) [Debug](#) [Show Edit Links](#) Internet



Course: Medicine Course Level: Medicine - Level 1

## Unit




☐ Code IMED1100
 ☐ Unit Type Core

☐ Name Normal Systems

☐ Effective From 01-OCT-2007
  Effective To

## Unit Synonyms




<input type="checkbox"/>	Code	Name	Effective From	Effective To
<input type="checkbox"/>	IMED110A	Normal Systems	12-NOV-2007	

## Unit Outcomes

Edit	Id	Outcome Text	Effective From	Effective To
	1.IMED1100.1	Describe the normal structure and function of the cardiovascular system	26-OCT-2007	
	1.IMED1100.2	Demonstrate how to perform some procedures and practical skills	26-OCT-2007	
	1.IMED1100.3	Describe the normal structure and function of the respiratory system	26-OCT-2007	
	1.IMED1100.4	Use laboratory techniques to understand physiology and anatomy	26-OCT-2007	
	1.IMED1100.5	Use critical thinking skills to understand physiology and anatomy	26-OCT-2007	
	1.IMED1100.6	Use appropriate vocabulary of biological and chemical sciences relating to medicine	26-OCT-2007	
	1.IMED1100.7	Demonstrate concise and effective written communication skills	26-OCT-2007	

Display Item Help - Microsoft Internet Explorer

Close

**Help Text**

**This is help for the unit name**

There may be synonyms for this unit

1 - 1

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Navigation icons: Home, Print, Copy, Paste, Find, Help, User

URL: :P9\_COU\_SEQ,F107\_CURRENT\_COURSE,P9\_CL\_SEQ,F107\_CURRENT\_LEV

Go Links

Navigation tabs: Outcomes Themes Search Maps

**Unit Synonyms**

Cancel Submit Add Row

	Code	Name	Effective From	Effective To
<input type="checkbox"/>	IMED110A	Normal Systems	12-NOV-2007	

Effective From 01-OCT-2007 Effective To

**Unit Outcomes** Create

Edit	Id	Outcome Text	Effective From	Effective To
	1.IMED1100.1	Describe the normal structure and function of the cardiovascular system	26-OCT-2007	
	1.IMED1100.2	Demonstrate how to perform some procedures and practical skills	26-OCT-2007	
	1.IMED1100.3	Describe the normal structure and function of the respiratory system	26-OCT-2007	
	1.IMED1100.4	Use laboratory techniques to understand physiology and anatomy	26-OCT-2007	
	1.IMED1100.5	Use critical thinking skills to understand physiology and anatomy	26-OCT-2007	
	1.IMED1100.6	Use appropriate vocabulary of biological and chemical sciences relating to medicine	26-OCT-2007	
	1.IMED1100.7	Demonstrate concise and effective written communication skills	26-OCT-2007	

## Region Definition

## Report Attributes

## Print Attributes

Region: 2 of 2 Name: Report on Item Help

Cancel

Delete

Apply Changes

**Show All** Identification User Interface Source Conditions Cache Header and Footer Authorization Customization Configuration Comments

## Identification

Page: 48 Report on ITEM\_HELP

\* Title Report on Item Help ☐ exclude title from translation

Type SQL Query

Static ID

## User Interface

Template Reports Region

\* Sequence 10

Display Point Page Template Body (3. items above region content)

Column 1

[\[Body\]](#) [\[Pos.1\]](#) [\[Pos.2\]](#) [\[Pos.3\]](#) [\[Pos.4\]](#)

Region HTML table cell attributes

## Source

Region Source

```
select h.SEQ,
h.PAGE_ID,i.page_name,
h.ITEM_ID,i.item_name, i.label,
h.ITEM_HELP_TEXT
from "#OWNER#". "ITEM_HELP" H, apex_application_page_items i
where i.page_id = h.page_id
and i.item_id = h.item_id
and i.application_name = :F_APPLICATION
and i.page_name != '0'
and (h.page_id = :P48_PAGE_ID OR NVL(:P48_PAGE_ID,-1) = -1)
order by h.page_id, i.label
```

## Page

Use this page to  
attributes. A regi  
a page that serv  
for content.

[Return to Page](#)

## Ta

[Undo region](#)



## Region Definition

## Report Attributes

## Print Attributes

Region: 2 of 2 Name: Item Help

Cancel

Delete

Apply Changes



## Show All

## Identification

## User Interface

## Source

## Conditions

## Cache

## Header and Footer

## Authorization

## Customization

## Configuration

## Comments

## Identification



Page: 47 Display Item Help

\* Title

Item Help



exclude title from translation

Type

SQL Query



Static ID

## User Interface



Template

Region without Title



\* Sequence

20

Display Point

Page Template Body (3. items above region content)



Column

1

[\[Body\]](#) [\[Pos.1\]](#) [\[Pos.2\]](#) [\[Pos.3\]](#) [\[Pos.4\]](#)

Region HTML table cell attributes

## Source



Region Source

```
SELECT NVL(item_help_text,'No help available for this item') helptext
from item_help
where item_id = :P47_ITEM_ID
```



# Managing Development

- Separate applications
- Same name
- Hack the id
- Export / import pages
  - No list items exported (add manually)
- css + theme



Component Export - Microsoft Internet Explorer

FileEditViewFavoritesToolsHelp

Back

Search

Favorites

Media

Address
http://sage2.sagecomputing.com.au:7784/pls/apex3/f?p=4000:688:3350609925221349::NO::
Go
Links

ORACLE

Application Express

Logout

Help

Home

Application Builder

SQL Workshop

Utilities

Home > Application Builder > Application 107 > Export / Import > Export > **Component Export**

Page 2

Identify Components

Export Components

Components

Components by Page

Application Attributes

Build Option Status

Find
Component
- All Components -
Display
75
Go
Add to Export

Identify the components of an application to be exported. This can be used for backup purposes or to load these components on another instance.

<input type="checkbox"/>	Component Type	Component Name	Last Updated	Developer
<input checked="" type="checkbox"/>	Page	70. Course Map	55 minutes ago	ADMIN
<input checked="" type="checkbox"/>	Page	1. Home	2 hours ago	ADMIN
<input checked="" type="checkbox"/>	Page	0. 0	16 hours ago	ADMIN
<input checked="" type="checkbox"/>	Page	115. Disclaimer	16 hours ago	ADMIN
<input type="checkbox"/>	Page	74. Generic Outcomes Map	17 hours ago	ADMIN
<input type="checkbox"/>	Page	72. Curriculum Map - Unit Level	17 hours ago	ADMIN
<input type="checkbox"/>	Page	120. Contact Us	17 hours ago	ADMIN
<input type="checkbox"/>	Application Process	getMethod	11 days ago	ADMIN
<input type="checkbox"/>	Page	2. Search	11 days ago	ADMIN
<input type="checkbox"/>	Breadcrumb Template	Breadcrumb Menu	11 days ago	ADMIN
<input type="checkbox"/>	Breadcrumb Template	Hierarchical Menu	11 days ago	ADMIN
<input type="checkbox"/>	Button Template	Button	11 days ago	ADMIN
<input type="checkbox"/>	Button Template	Button, Alternative 1	11 days ago	ADMIN

Done

Internet

```
-- Import:
-- Using application builder
-- or
-- Using SQL*Plus as the Oracle user FLOWS_030000 or as the owner (parsing schema) of the application.
```

Manually update

```
--   AAAA   PPPPP EEEEEEE XX   XX
--   AA AA   PP PP EE   XX  XX
--   AA AA   PP PP EE   XX  XX
--   AAAAAAAAA PPPPP EEEE   XXXX
--   AA   AA PP   EE   XX  XX
--   AA   AA PP   EE   XX  XX
--   AA   AA PP   EEEEEEE XX   XX
prompt Set Credentials...
```

```
begin
```

```
-- Assumes you are running the script connected to SQL*Plus as the Oracle user FLOWS_030000 or as the owner (parsing schema) of the
application.
```

```
www_flow_api.set_security_group_id(p_security_group_id=>7111730922489010);
```

```
end;
```

```
/
```

```
begin www_flow.g_import_in_progress := true; end;
```

```
/
```

```
begin
```

```
select value into www_flow_api.g_nls_numeric_chars from nls_session_parameters where parameter='NLS_NUMERIC_CHARACTERS';
```

```
end;
```

```
/
```

```
begin execute immediate 'alter session set nls_numeric_characters=".,"';
```

```
end;
```

```
/
```

# What's Next

- Framework
- Next version stuff
  - Interactive reporting interface
    - Sort column
    - Group column
    - Hide column
    - Filter column
    - Highlighting (cell and row level)
    - Save and copy settings
  - JSON API (JavaScript Object Notation)



Application Builder - Mozilla Firefox

File Edit View History Bookmarks Tools Help

[←](#)
[→](#)
[↺](#)
[⚙](#)

[http://lacitis:7777/pls/apex/f?p=4000:1:1202121019438590559::NO:RP:FB\\_FLOW\\_ID,F4000\\_P1\\_FLOW,P1\\_FIN](#)
[Google](#)

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112

Page 7

Application: 112 - Sample Application

Run Application

Supporting Objects

Shared Components

Import

Page

View Details

Page	Name	Updated
13	<a href="#">View/Modify Orders</a>	3.2 years ago
7	<a href="#">Add/Modify Customers</a>	8 minutes ago
0	<a href="#">Page Zero</a>	13 minutes ago
1	<a href="#">Sample Application</a>	13 minutes ago
2	<a href="#">Customers</a>	13 minutes ago
3	<a href="#">Products</a>	13 minutes ago
4	<a href="#">Orders</a>	13 minutes ago
5	<a href="#">Cluster Bar</a>	13 minutes ago
6	<a href="#">Add/Modify Products</a>	13 minutes ago
8	<a href="#">Manage Users</a>	13 minutes ago
9	<a href="#">Reset Password</a>	13 minutes ago
10	<a href="#">Add Product Image</a>	13 minutes ago
11	<a href="#">Enter New Order</a>	13 minutes ago

Application

Logic

Security

Globalization

Navigation

User Interface

Reports

Files

Logic

Application Items

Application Processes

Application Computations

Web Service References

Build Options

Tasks

- Delete this Application
- Copy this Application
- Page Groups
- Page Locks
- User Interface Defaults
- Export Repository
- Application Reports

Recent

- 7. Add/Modify Customers
- 101. Login
- 5. Cluster Bar
- 6. Add/Modify Products
- 10. Add Product Image
- 9. Reset Password
- 8. Manage Users
- 11. Enter New Order
- 12. Enter New Order
- 15. About this Application

[http://lacitis:7777/pls/apex/f?p=4000:170:1202121019438590559::NO:::](#)

Web Service References - Mozilla Firefox

File Edit View History Bookmarks Tools Help

← → ↻ ⚙

http://lacitis:7777/pls/apex/f?p=4000:170:1202121019438590559::NO:::

Google

Oracle Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Shared Components > Web Service References

Page 7

Web Service References

🔍

Web Service Reference

View

Details

▼

Display

15

▼

Go

Create >

No web service references defined.

Web Service References

The Application Express engine can use Web Service References to access a Web service across the network. The Web service performs an action and then sends back a response.

To edit an existing reference, click the reference name. To test a reference, click the **Run** icon. To view details about a reference, click the **View** icon.

Language: en-gb

Workspace: TRAIN User: ADMIN

Application Express 3.0.1.00.07

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Done



Create Web Service Reference - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

http://lacitis:7777/pls/apex/f?p=4000:550:1202121019438590559::NO:550,555,560,565,570,575,580,585,595

Google

ORACLE Application Express

LogoutHelp

HomeApplication BuilderSQL WorkshopUtilities

Home > Application Builder > Application 112 > Shared Components > Web Service References > Create Web Service Reference

Page 7

Search UDDI?

Choose tModel

WSDL Location

Web Service Details

Success

Create Web Service Reference

Cancel

Next >

Do you want to search a UDDI registry to find the WSDL? ☐ Yes ☒ No

Create Web Service Reference

Web service references in Application Express are created based on a Web Services Description Language (WSDL) document. A WSDL document is a standard way to describe a Web service.

Identify whether to search for a WSDL document by searching a UDDI registry, or by directly entering the URL to the WSDL document.

A Universal Description, Discovery, and Integration (UDDI) registry is a directory where businesses register their Web services.

Language: en-gb

Workspace: TRAIN User: ADMIN

Application Express 3.0.1.00.07

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Done

**ORACLE** Application Express[Logout](#) [Help](#)

Home

Application Builder

SQL Workshop

Utilities

Home > Application Builder > Application 112 > Shared Components > Web Service References > **Create Web Service Reference**

Page 7



Search UDDI?

Choose tModel

WSDL Location

Web Service Details

Success

Create Web Service Reference

Cancel

&lt; Previous

Next &gt;

Finish

WSDL Location 

## Authentication

Username Password 

## Create Web Service Reference

Use this page to enter the URL to WSDL document that describes the service in detail.

## Tasks

- ◇ Create Web Service Reference Manually



Create Web Service Reference - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lacitis:7777/pls/apex/f?p=4000:585:1202121019438590559::NO:::

Google

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Shared Components > Web Service References > Create Web Service Reference

Page 7

Search UDDI?

Choose tModel

WSDL Location

Web Service Details

Success

Web Service Details

Cancel < Previous Create Reference

Web Service Name

SendMessageService

SOAP URL Endpoint

http://www.esendex.com/secure/messenger/soap/Sen

SOAP Style

Basic Authentication

☐ Yes ☒ No

Operations

Operation Name	SendMessage
Operation Name	SendMessageFull
Operation Name	SendMessageMultipleRecipients
Operation Name	SendMessageMultipleRecipientsFull
Operation Name	SendMessageBatch
Operation Name	GetMessageStatus

Input Parameters

Operation	Parameter Name	Parameter Type
SendMessage	SendMessage	tns:SendMessage
	username	s:string
	password	s:string
	account	s:string
	recipient	s:string
	body	s:string

Create Web Service

Review the details of t service, and change th name or URL endpoir

The information displa derived from the WSD document. You should change the URL endp have knowledge that t document is incorrect

Tasks

Create Web Servic Manually

Done

Test Web Service Reference - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lacitis:7777/pls/apex/f?p=4000:588:1202121019438590559::NO:::

Google

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Shared Components > Web Service References > Test Web Service Reference

Page 7

Web Service Reference

Cancel Test

Name: SendSMSService

URL Endpoint: http://www.esendex.com/secure/messenger/soap/SendServiceNoHeader.asmx

Operation: 

SendMessage

Input Parameters

Name	Type	Value
username	s:string	<div>penny@sagecomputing</div>
password	s:string	<div>NDX7925</div>
account	s:string	<div>EX0038235</div>
recipient	s:string	<div>61408642530</div>
body	s:string	<div>This a test message</div>
type	s:string	<div>Text</div>

Messages

Request

Test Web Service Reference

To test the Web Service Reference, select an operation, supply input parameters if applicable, and click **Test** to test. Then you can inspect the request envelope and response envelope.

Done

Test Web Service Reference - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://acitis:7777/pls/apex/f?p=4000:588:1202121019438590559::NO:::

Google

account s:string

recipient s:string

body s:string

type s:string

Messages

Request

<?xml version='1.0' encoding='UTF-8'?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><SOAP-ENV:Body><ns1:SendMessage xmlns:ns1="com.esendex.ems.soapinterface"><ns1:username>penny@sagecomputing.co  
a test  
message</ns1:body><ns1:type>Text</ns1:type></ns1:SendMessage></SOAP-ENV:Body></SOAP-ENV:Envelope>

Response

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><SendMessageResponse xmlns="com.esendex.ems.soapinterface"><SendMessageResult>915ad146-5a6d-45ff-95

Language: en-gb

Workspace: TRAIN User: ADMIN

Application Express 3.0.1.00.07

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Done

Create Form - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://acitis:7777/pls/apex/f?p=4000:362:1202121019438590559

Google

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Form

Page 7

Create

Create Form

Cancel < Previous Next >

Page: 7 - Add/Modify Customers

Create a data entry form based on:

☐ Table

☐ Tabular Form

☐ Procedure Arguments

☐ Form with Report


☐ SQL Query (fetch row)


☐ Display Only on Existing Items


☐ Master Detail


☒ Form on Web Service


☐ Form and Report on Web Service























Language: en-gb

Application Express 3.0.1.00.07



Create Form on Web Service - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lacitis:7777/pls/apex/f?p=4000:600:1202121019438590559::NO:::

Google

ORACLE® Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Page > Form on Web Service

Page 7

Choose Service and Operation

Page and Region Attributes

Input Items

Output Items

Tabs

Confirm

Success

Web Service Reference and Operation

Cancel Next >

\* Web Service Reference

SendSMSService

\* Operation

SendMessage

Form on Web Service

Select the Web service definition and operation on which to build the input form.

Tasks

◇ Create Web Reference from WSDL

◇ Create Web Reference Manually

Language: en-gb

Application Express 3.0.1.00.07

Workspace: TRAIN User: ADMIN

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Done

Create Form on Web Service - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://lacitis:7777/pls/apex/f?p=4000:605:1202121019438590559::NO:::

Google

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Page > Form on Web Service

Page 7

Choose Service and Operation

Page and Region Attributes

Input Items

Output Items

Tabs

Confirm

Success

Identify Page and Region Attributes

Cancel

< Previous

Next >

Use this page to specify page and region information.  
If the page you specify does not exist, the wizard creates the page for you.

Web Service Reference: **SendSMSService**  
Operation: **SendMessage**

\* Page Number

7

\* Page Name

Add/Modify Customers

\* Region Title

Send SMS Message

\* Region Template

Form Region

Breadcrumb

- do not use breadcrumbs on page -

Language: en-gb

Application Express 3.0.1.00.07

Workspace: TRAIN User: ADMIN

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Done

Create Form on Web Service - Mozilla Firefox

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ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Page > Form on Web Service

Page 7

Choose Service and Operation

Page and Region Attributes

Input Items

Output Items

Tabs

Confirm

Success

Items for Input Parameters

Cancel < Previous Next >

Name	Type	Item Name	Item Label	Create
username	s:string	P7_USERNAME	Username	No
password	s:string	P7_PASSWORD	Password	No
account	s:string	P7_ACCOUNT	Account	No
recipient	s:string	P7_RECIPIENT	Recipient	Yes
body	s:string	P7_BODY	Body	Yes
type	s:string	P7_TYPE	Type	No

Form on Web Service

Identify the names and labels for items created based on this service's input parameters.

To include an item, select **Yes** in the Create column. Otherwise, select **No**. If necessary, edit the item label.

Language: en-gb

Workspace: TRAIN User: ADMIN

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Done

Create Form on Web Service - Mozilla Firefox

File Edit View History Bookmarks Tools Help

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Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Page > Form on Web Service

Page 7

Choose Service and Operation

Page and Region Attributes

Input Items

Output Items

Tabs

Confirm

Success

Items for Output Parameters

Cancel

< Previous

Next >

Finish

Name	Type	Item Name	Item Label	Create
SendMessageResult	s:string	P7_SENDEMESSAGERE	Sendmessageresult	Yes

Form on Web Service

Identify the names and labels for items created based on this service's output parameters.

To include an item, select **Yes** in the Create column. Otherwise, select **No**. If necessary, edit the item label.

Language: en-gb

Workspace: TRAIN User: ADMIN

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Done



Create Form on Web Service - Mozilla Firefox

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Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7 > Create Page > Form on Web Service

Page 7

Choose Service and Operation

Page and Region Attributes

Input Items

Output Items

Tabs

Confirm

Success

Form on Web Service Confirmation

Cancel < Previous Create Form

You have requested to create a form on a Web service reference page with the following attributes. Please confirm your selections.

Application	112
Page	7
Page Name	Add/Modify Customers
Region Title	Send SMS Message
Region Template	Form Region
Web Service Reference, Operation	SendSMSService, SendMessage
Form Items	P7_RECIPIENT P7_BODY
Output Items	P7_SENDMESSAGERESULT

Form on Web Service

This page confirms the options that will be used to create the form.

Language: en-gb

Application Express 3.0.1.00.07

Workspace: TRAIN User: ADMIN

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Done

Page Definition - Mozilla Firefox

File Edit View History Bookmarks Tools Help

← → ↺ ⚙

http://lacitis:7777/pls/apex/f?p=4000:4150:1202121019438590559::NO:::&success\_msg=Region%20Updated,'

Google

ORACLE Application Express

Logout Help

Home Application Builder SQL Workshop Utilities

Home > Application Builder > Application 112 > Page 7

Page 7 ⚙

Region Updated. Report attributes set.

Page 7 ⏮ ⏪ ⏩ ⏭ View Definition Go Run Copy Delete Create >

Last Updated: ADMIN, 1 seconds ago  
Page Comments: 0

Page Rendering

Page

Page Name: [Add/Modify Customers](#) Template: [Application default](#)  
Title: [Add/Modify Customers](#) Header Text:  
HTML Header: `<script language="JavaScript">` Footer Text:  
HTML Body: Build Option:  
Help Text: Authorization: [No](#)  
Page Group: Cached: [No](#)

Regions

Display Point: Page Template Body (2) ▾  
10 ☐ [Add/Modify Customers](#) HTML  
10 ☐ [Send SMS Message](#) HTML (Column 2)  
20 ☒ [Orders for this Customer Report](#) (Column 2) Conditional

Buttons

Region: [Add/Modify Customers](#) ▾  
10 [Cancel](#) Redirect to page 2  
20 [Delete](#) Run: `javascript:confirmDelete(htmldb_delete_m` Conditional  
30 [Apply Changes](#) Submit as "SAVE" Conditional  
40 [Create](#) Submit as "CREATE" Conditional

Page Processing

Computations

Validations

Processes

Branches

2 [P7\\_CUST\\_FIRST\\_NAME](#) not null  
3 [P7\\_CUST\\_LAST\\_NAME](#) not null  
13 [P7\\_CREDIT\\_LIMIT](#)  
23 [P7\\_PHONE\\_NUMBER1](#)  
33 [P7\\_PHONE\\_NUMBER2](#) Never  
43 [P7\\_CUST\\_POSTAL\\_CODE](#)  
53 [P7\\_CREDIT\\_LIMIT](#)  
63 [Credit Limit](#) <= 5000

After Submit

10 [Process Row of DEMO\\_CUSTOMERS](#) Automatic Row Processing (DML) Unconditional  
10 [Web Service Request](#) Web Service Conditional  
20 [reset page](#) Clear Cache for all Items on Pages (PageID,PageID,PageID) Never

After Processing

1 [Go To Page: 7](#) Conditional  
10 [Branch To Page Identified By Item](#) Unconditional

Shared Components

Tabs

Lists of Values

Breadcrumbs

Lists

Templates

Tab Set: TS1 ▾  
[Home](#)  
[Customers](#)  
[Products](#)  
[Orders](#)  
[Charts](#)  
[Admin](#)

Dynamic [STATES](#)

Page [One Level Tabs](#)  
Region [Form Region](#)  
Region [Reports Region](#)  
Label [Optional Label with Help](#)  
Label [Required Label with Help](#)  
Button [Button](#)

Done

File

Edit

View

History

Bookmarks

Tools

Help

⏮

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⚙️

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http://lactis:7777/pls/apex/f?p=112:7:1202121019438590559:.....

▶️

🔍

Google

Sample Application

ADMIN [Print](#) [Logout](#)

Home

Customers

Products

Orders

Charts

Admin

Add/Modify Customers

Cancel

Delete

Apply Changes

✦ First Name

John

✦ Last Name

Dulles

Street Address

45020 Aviation Drive

Street Address 2

City

Sterling

State

Virginia

▼

✦ Postal Code

20166

Email

Phone Number

703-555-2143

Alt Phone Number

61408642530

Credit Limit

1000

Send SMS Message

Submit

Recipient

Body

Sendmessageresult

Orders for this Customer

Order #1

Order Date	Sales Rep	Product Name	Unit Price	Quantity	Extended Price
14-NOV-07	DEMO	3.2 GHz Desktop PC	\$1,200.00	1	\$1,200.00
Order Total:					\$1,200.00
Total for All Orders:					\$1,200.00

1 - 1

Done



Add/Modify Customers - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

http://lacitis:7777/pls/apex/f?p=112:7:1202121019438590559:::

Google

Sample Application

ADMINPrintLogout

HomeCustomersProductsOrdersChartsAdmin

Add/Modify Customers

CancelDeleteApply Changes

\* First NameJohn

\* Last NameDulles

Street Address45020 Aviation Drive

Street Address 2

CitySterling

StateVirginia

\* Postal Code20166

Email

Phone Number703-555-2143

Alt Phone Number61408642530

Credit Limit1000

Send SMS Message

Submit

Recipient61408642530

BodyThis is a test message

Sendmessageresult

Orders for this Customer

Order #1

Order Date	Sales Rep	Product Name	Unit Price	Quantity	Extended Price
14-NOV-07	DEMO	3.2 GHz Desktop PC	\$1,200.00	1	\$1,200.00
Order Total:					\$1,200.00
Total for All Orders:					\$1,200.00

1 - 1

Done

Add/Modify Customers - Mozilla Firefox

FileEditViewHistoryBookmarksToolsHelp

←→↺⚙

http://lacitis:7777/pls/apex/f?p=112:7:1202121019438590559:.....&success\_msg=SMS%20Sent%20Successfully

Google

Sample Application

ADMINPrintLogout

HomeCustomersProductsOrdersChartsAdmin

SMS Sent SuccessfullyCustomer Record Processed.

Add/Modify Customers

CancelDeleteApply Changes

First NameJohn

Last NameDulles

Street Address45020 Aviation Drive

Street Address 2

CitySterling

StateVirginia

Postal Code20166

Email

Phone Number703-555-2143

Alt Phone Number61408642530

Credit Limit1000

Send SMS Message

Submit

Recipient61408642530

BodyThis is a test message

Sendmessageresult

Orders for this Customer

Order #1

Order Date	Sales Rep	Product Name	Unit Price	Quantity	Extended Price
14-NOV-07	DEMO	3.2 GHz Desktop PC	\$1,200.00	1	\$1,200.00
Order Total:					\$1,200.00

Done



## **SAGE Computing Services**

**With the assistance of the Faculty of  
Medicine, Dentistry and Health Sciences  
at The University of Western Australia**

### **Questions and Answers?**

Presentations are available from our website:

*<http://www.sagecomputing.com.au>*

*[enquiries@sagecomputing.com.au](mailto:enquiries@sagecomputing.com.au)*

*[penny@sagecomputing.com.au](mailto:penny@sagecomputing.com.au)*

For enquiries concerning the Mappedout application please contact:

**Education Centre**

**Faculty of Medicine, Dentistry and Health Sciences**

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