Uniface 10 Deep Dive

Palettes and Templates

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1. Introduction

The purpose of this workshop is to help you to understand the power and flexibility available in Uniface 10 through the use of Palettes and a collection of templates.



2. Modifying the IDE.ASN

We need to modify the IDE.ASN to allow use to create and maintain templates and palettes.

Open the IDE.ASN file located in your Uniface 10 installation folder:

uniface\adm\ide.asn

- ; By default, the templates and palettes used in the Resource Browsers cannot
- ; be opened in an editor. If the user wants to create and maintain user defined
- ; templates and palettes, the setting 'allow browse templates' to browse and
- ; open templates should be enabled: default/disabled = 0; enabled = 1
- ; NOTE: Templates and palettes provided by Uniface should not be modified
- ; without understanding the impact of such modifications.

allow browse templates = 1



3. Starting from an empty repository

If you are starting this example/exercise from an empty repository you will be presented with the following screen:

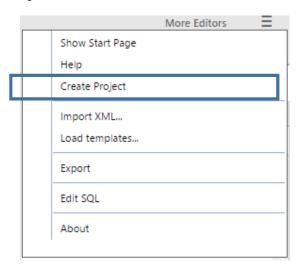


Chose the 'Load default templates' option.



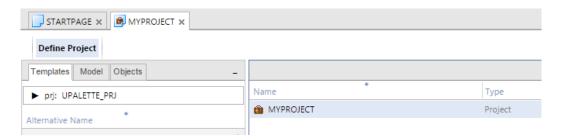
4. Creating our Project

We will need to create a project that will be used to hold our templates. From the top right-hand corner select the waffle menu and select 'Create Project'

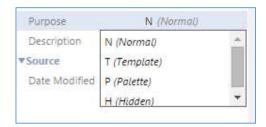


We need to create the following:

1. STANDARDS



Click on MYPROJECT in the center pane and enter STANDARDS as the name and press Enter. On the right-hand side of the screen change the Purpose from N (Normal) to P(Palette) and press Enter.



By setting the Purpose to P (Palette) you can also enter an Alternate name and Description as I have done here. Why enter alternate name?





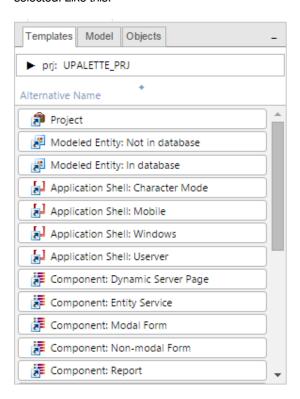
BY DEFAULT, TEMPLATES AND PALETTES ARE VISIBLE FOR BROWSING ONLY IN THE TEMPLATES TAB OF THE RESOURCE BROWSERS. NORMAL DEVELOPMENT OBJECTS ARE VISIBLE WHEN BROWSING IN THE U-BAR OR RESOURCE BROWSERS SO THAT YOU CAN EASILY LOCATE AND OPEN THEM FOR EDITING OR REUSE.



5. Adding modelled components to our standards

We need to click on the STANDARDS project and select the Templates tab on the left-

hand side of the screen. Click on the and make sure that UPALETTE_PRJ is selected. Like this:



These components will be the base implementations that will be derived to create new components.

Please note that every time you rename an object you must press ENTER to accept the change.

5.1 Adding a snippet library

Drag the Snippet library from the left-hand side of the screen onto the STANDARDS project in the center pane.

Rename the default name from "ULIBSNP_1" to "STANDARD_SNIPPETS" and press Enter.





5.2 Adding a Modeled DSP Component

Drag the Modeled Component: Dynamic Server Page from the left-hand side of the screen onto the STANDARDS project in the center pane.

Rename the MDSP_1 to "RESTFULAPI_BASE".

Select the Alternative Name field in the Properties pane and change it to "**RESTFul API Base**". Change the Description to "**RESTful API implementation**".

5.3 Adding a Modeled DSP Component for Bootstrap

Drag the Modeled Component: Dynamic Server Page from the left-hand side of the screen onto the STANDARDS project in the center pane.

Rename MDSP_1 to "BOOTSTRAP_BASE".

Select the Alternative Name field in the Properties pane and change it to "Bootstrap DSP Base". Change the Description to "Bootstrap list implementation".

5.4 Adding a Modeled Entity

Drag the Modeled Entity: In database from the left-hand side of the screen onto the STANDARDS project in the center pane.

Rename the default name of "**UENTDB_1**. **MODEL**" to "**TABLEWITHSTATUSFIELDS.MODEL**".

Select the Description field in the Properties pane and change it to "Entity with Status Fields". Repeat this for the Alternative Name field.

5.5 Definition Complete.

Your project should look like this:





6. Modifying the Modeled Entity

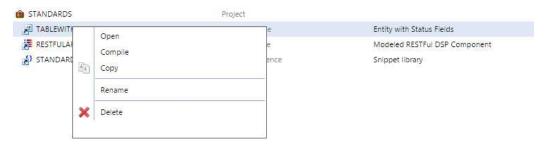
For business reasons any new table that we create must store either when the record was added and by whom or when the record was updated and by whom.

We want an entity that has 4 modeled fields named:

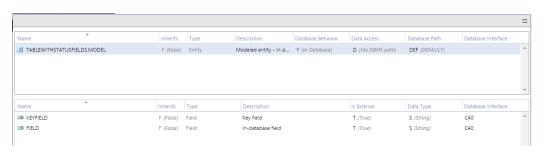
Fieldname	Data Type
CreatedOn	DateTime
CreatedBy	String 40
UpdatedOn	DateTime
UpdatedBy	String 40

We will add fields and ProcScript to the modeled entity to facilitate this business requirement.

Select the 'TABLEWITHSTATUSFIELDS.MODEL' and right-click and then select 'Open'



Once opened you should see the following:



Drag a Date-Time field onto the fields section and select 'Insert After' then rename it to 'CreatedOn' (Remember to press ENTER to change the name).

Insert from Resource Browser

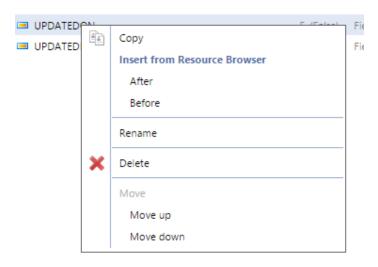
After

Before



Drag a String field (Fixed length) on the fields section and select 'Insert After' then rename it to "CreatedBy"

If by chance the fields are not in the order that you would like. You can right-click on the field and Select either 'Move Up' or 'Move Down'



Repeat this for **UpdatedOn** and **UpdatedBy**.

Your fields should look like this:



6.1 Entering business logic

We now need to add the business login to populate the status fields that we created above. In order to do that we need to write some ProcScript. Click on the 'Write Script' tab located above the TABLEWITHSTATUSFIELDS.MODEL and to the right of 'Define Structure'



Click on the 'TABLEWITHSTATUSFIELDS.MODEL' in the Structure pane.

Scroll the script window down until the trigger write block appears.

Enter the following code before the write statement.



```
if ($dbocc = 0)
    CREATEDBY = $user
    CREATEDON = $date
else
    UPDATEDBY = $user
    UPDATEDON = $date
endif
```

You write trigger should look like this:

In the upper right-hand portion of the IDE below the 'More Editors' button. Click 'Compile'. Verify that the Compiler Output tab at the bottom of the screen shows no compilation errors.

```
Messages Compiler Output

Analyze entity: TABLEWITHSTATUSFIELDS.MODEL

Compile done: No compilation messages

Compile entity: TABLEWITHSTATUSFIELDS.MODEL

Compile done: Entity compilation (collection operations): no compilation messages

Compile entity: TABLEWITHSTATUSFIELDS.MODEL

Compile done: Entity compilation (occurrence operations): no compilation messages
```

Click the STANDARDS × tab to navigate back to our Project.

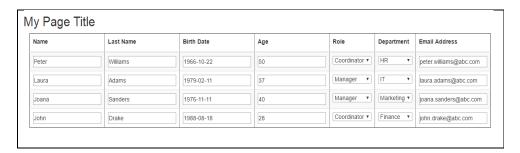


7. Creating a Modelled DSP Component for Bootstrap

It is often very useful to create a series of standardized pages that utilize current industry frameworks. We will be creating a modelled DSP component that takes advantage of Bootstrap¹, Tablesaw² and jQuery³ to produce a rich and responsive user interface.

For this exercise we will utilize the EMPLOYEES entity.

7.1 Desired Result



7.2 Extending our BOOTSTRAPDSP modeled component

Right-click on the BOOTSTRAP BASE component and select Open.



As we have done before click on the Write Script tab



The default code is populated. If there was specific code that you wanted to include as part of a Modeled DSP page you could add it here.

Click on the Design Layout tab:



¹ Bootstrap - http://getbootstrap.com/ Originally created by a designer and a developer at Twitter, Bootstrap has become one of the most popular front-end frameworks and open source projects in the world.

² Tablesaw - https://github.com/filamentgroup/tablesaw

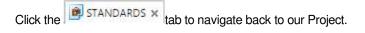
³ jQuery -https://jquery.com/ jQuery is a fast, small, and feature-rich JavaScript library



7.3 HTML Layout

Replace the code in the Design Layout with the following code:

It is also located in 'Code Samples\Bootstrap DSP HTML Layout.txt'

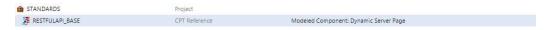




8. Creating a RESTful DSP Component

We have a business requirement that some of our company information is made available via RESTful services to the public. For the foreseeable future we only expect this information to be read-only.

From our 'STANDARDS' project, click on the **RESTFULAPI_BASE**, right-click and select Open.



In the properties make sure that the Purpose is set to Template from Normal.

Click on the Model tab, select UENTDB and drag it onto RESTFULAPI_BASE.

Multi-Select the two fields on the left (KEYFIELD and FIELD) and drag them onto the **UENTDB.MODEL** resulting in the following:



MULTI-SELECT THE ENTITY AND THE FIELDS AND MAKE SURE THAT THE 'ISGENERIC' PROPERTY IS SET TO TRUE. This will allow us to bind other fields to the generic ones.



As we have done before click on the Write Script tab



Add this code to the Declarations container:

variables string output_prefix endvariables

Observe the code:



```
operation exec
public web
; Your SCOPE block here (optional)...
; Your VARIABLES block here (optional)...

; Your implementation here...

; Return execution status:
; return 0 ; return >= 0 typically indicates a successful execution
; return -1 ; return < 0 typically indicates an error during execution return 0</pre>
```

Replace entire 'operation exec' with the following code located in 'Code Samples\RESTful API Code.txt'

Note: Remove the preActivate and postActivate triggers as we will not be doing any state management.

Add the **runthis** code from 'Code Samples\Restful API Processing.txt' to the end of the Script block following **getErrorMessage**

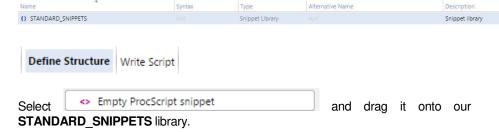
Click the STANDARDS × tab to navigate back to our Project



9. Populating a Snippet library

There are several application elements that need to be added to some components to provide sorting and row highlighting on a grid. While this is not complicated it can be bothersome to copy and paste code. In order to implement this let's do the following:

From our 'STANDARDS' click on the **STANDARD_SNIPPETS**, right-click and select Open.



As before rename **EMPTY.PROCSCRIPT** to the name that we want, in this case **'ROWHILIGHTING.PROCSCRIPT**'.

Repeat and create another ProcScript called 'ENTITYDEFINES'.



Modify the Description fields for each to be:

- 1. Row Hilighting
- 2. Entity definitions for Hilightrow
- 3. Bootstrap Base

ALSO MAKE SURE TO SET THE ALTERNATIVE NAME TO SOMETHING USEFUL OTHER THAN 'EMPTY HTML SNIPPET'



As we have done before click on the Write Script tab



Select 'ROWHIGHLIGHTING' and enter the following:

```
if ($curocc % 2 )
    call OccurrenceSetFieldColors( "<GRIDENTITY>","<SELECTIONCOLOR>")
endif
```



Select 'ENTITYDEFINES' and enter the following Procscript:

#define SELECTIONCOLOR = #DDDDDD #define GRIDENTITY = MYENTITY.MODEL

Enter the following into the HTML snippet named BOOTSTRAPBASE. It is located in 'Code Samples\Bootstrap DSP HTML Layout.txt'

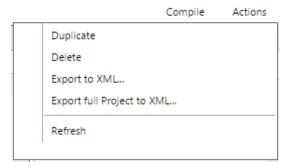
```
<p
```

Click the STANDARDS × tab to navigate back to our Project



10. Packaging up your Standards

From the Action Menu:



Select 'Export full Project to XML...'

Save the file to a name of your choice or use the default of 'prj_full_standards.xml'



11. Applying what we have done

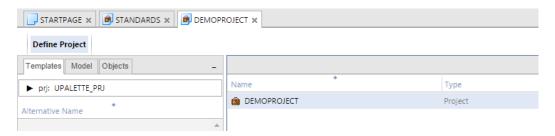


Stop and take a deep breath.

You can either create an empty repository or utilize the repository that you have been using to create the STANDARDS project.

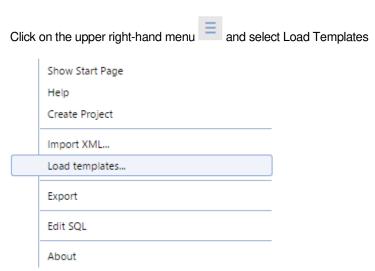
We need to create a new project to leverage the work that we have done. Create a project called DEMOPROJECT, leaving the Purpose set to N (Normal).

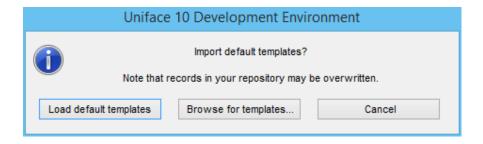
You should see the following in the IDE:



Jump to Adding some data for testing if you are using the existing repository.

11.1 Importing our standards if starting from an empty repository







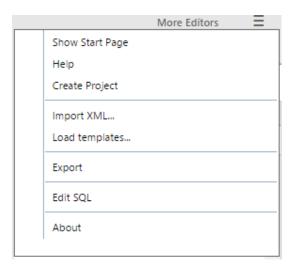
Click Browse for templates... and browse to the location that you placed your Standards export and select the file, for example: prj_full_standards.xml

11.2 Adding some data for testing

For ease of testing we will import an existing entity named: EMPLOYEES.BOOTSTRAP and load some initial data. The EMPLOYEES entity also utilizes a field syntax template named: EMAIL. Click on the DEMOPROJECT that we created earlier.

11.3 Import the EMAIL template

From the waffle menu in the upper right-hand portion of the Uniface 10 IDE select 'Import XML...'



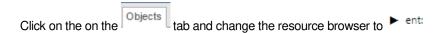
The following files will need to be installed:



Import the following files in this order:

- 1. email_template.xml
- 2. bootstrap_model.xml
- 3. Employee Initial Data.xml

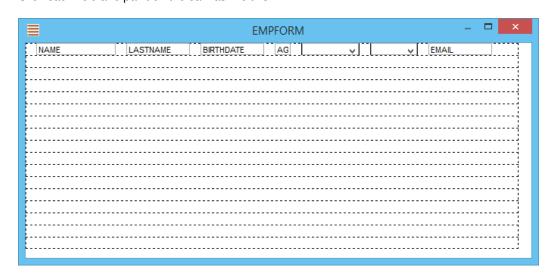
11.4 Drag the imported objects into the Project

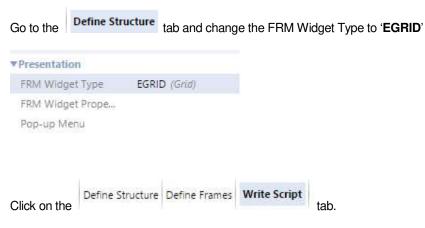






Click each field and paint on the canvas like this:





Add a 'retrieve' statement before the 'edit' statement like this:



```
poperation exec

; Your pre-edit code here...
retrieve
; Shows the form component and allow data entry (script execution stops here and continues after a close request)
edit

; At this point, $status is:
; 9 when the trigger accept performend a close request
; 10 when the trigger quit performed a close reques
; Your post-edit code here...
; Return execution status:
; return 0 ; return >= 0 typically indicates a successful execution
; return -1 ; return < 0 typically indicates an error during execution
return 0
end</pre>
```

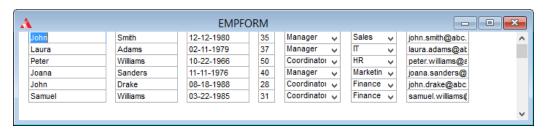
From the right-hand side of the screen click 'Compile'.

Start another instance of the IDE and enter the following into the command line:

/tst EMPFORM



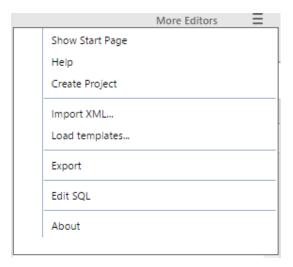
You should see this:



11.5 Adding Highlighting

Import the include proc





Select 'Import XML...' and select 'Code Samples\HILIGHTROW Include Proc.xml'

IF YOU IMPORTED THE **EMPLOYEE**.BOOTSTRAP MODEL THE READ TRIGGER WILL ALREADY HAVE THE FOLLOWING CODE IN IT AND YOU WILL NOT NEED TO MODIFY THE READ TRIGGER:

```
trigger read
read
if ($status >= 0)
   age = $int( ( $date - birthdate ) / 365)
#ifdefined GRIDENTITY
   if |($curocc % 2 )
      call OccurrenceSetFieldColors( "<GRIDENTITY>","<SELECTIONCOLOR>")
   endif
#endif
endif
end
```

If you have NOT imported the EMPLOYEE.BOOTSTRAP model then you will need to do the following:

Open the 'STANDARD SNIPPETS'



Then insert the following into the Declarations Section in the component.

```
variables
string sortorder
endvariables
; Your component VARIABLES block here (optional)...
#include SYSTEM_LIBRARY:HILIGHTROW
```

Everything should look like this:



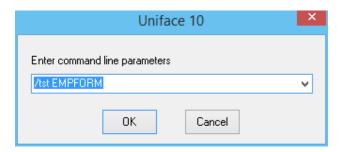
```
Declarations
; Your component defines here (optional)...
#define SELECTIONCOLOR = #DDDDDD

#define GRIDENTITY = EMPLOYEE.BOOTSTRAP

variables
    string sortorder
endvariables
; Your component VARIABLES block here (optional)...
#include SYSTEM_LIBRARY:HILIGHTROW
```

From the right-hand side of the screen click 'Compile'. Start another instance of the IDE and enter the following into the command line:

/tst EMPFORM





Close and Exit.





12. Using the BootStrap DSP Component

Select the Model tab and drag the BOOTSTRAP_BASE onto the DEMOPROJECT.

Click on the BOOTSTRAP_BASE_1 component and rename it to 'BOOTSTRAP_DSP'. Right click and open the BOOTSTRAP DSP component.

Select the Model tab and drag the EMPLOYEE.BOOTSTRAP entity onto the DSP.

Multi-Select and drag all of the EMPLOYEE fields except the ID field.



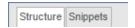
12.1 Copy in the layout



Select libsnp:STANDARD_SNIPPETS

Select 'Bootstrap Base HTML' and then right-click and select 'Insert into Layout'.

Click on the Structure tab.

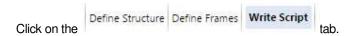


Select 'EMPLOYEE.BOOTSTRAP' and all of its fields. Right-click and Select 'As horizontal table'



In the Design Layout right-click and Paste after the table comment.

Add the class="table table-striped" to the Table definition right before the border="1"





Select libsnp:USCRIPT DSP.

Position your cursor into the Script code fold.

Insert a 'retrieve' statement into the operation like this:

```
operation exec
public web
; Your SCOPE block here (optional)...
; Your VARIABLES block here (optional)...

retrieve

; Return execution status:
; return 0 ; return >= 0 typically indicates a successful execution
; return -1 ; return < 0 typically indicates an error during execution
return 0
end</pre>
```

Compile

From the Actions Menu

```
Duplicate

Delete

Export to XML...

Test

Show QR code

Refresh
```

And click on the QR Code to bring up the page in a browser. For example:

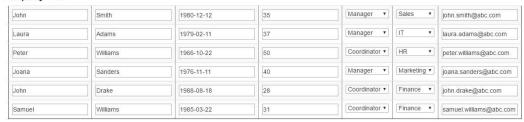




12.2 Change the Page Title

Change <h2>My Page Title</h2> to <H2>Employees</H2>

Employees



Click the tab to navigate back to our Project.



13. Using the RESTful Template

Select the Model tab and drag the RESTFUL BASE onto the DEMOPROJECT.

Rename the RESTFUL_BASE_1 to EMPRESTFUL.

Right click and open the EMPRESTFUL component.



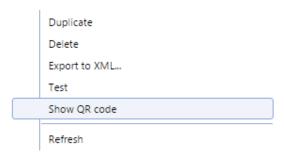
Rename UENTDB.MODEL to EMPLOYEE.BOOTSTRAP

Rename KEYFIELD to ID

Rename FIELD to NAME.

Compile

From the Actions Menu



And click on the QR Code to bring up the page in a browser. For example:



Make sure that you add '/employee' to the test page as the code looks for the entity name on the URL.



Try it with /employee/2

Try it with /employee?format=xml

13.1 Logfile entries for RESTful

```
EMPLOYEE - URL = 'http://localhost:8084/uniface/wrd/EMPLOYEE/employee'
EMPLOYEE - Bound to = 'EMPLOYEE.BOOTSTRAP'
EMPLOYEE - output_type = 'JSON'
EMPLOYEE - type = 'employee'
EMPLOYEE - qualifier = "
EMPLOYEE - item = "
EMPLOYEE - subitem = "
EMPLOYEE - URL = 'http://localhost:8084/uniface/wrd/EMPLOYEE/employee'
EMPLOYEE - Bound to = 'EMPLOYEE.BOOTSTRAP'
EMPLOYEE - output_type = 'JSON'
EMPLOYEE - type = 'employee'
EMPLOYEE - qualifier = "
EMPLOYEE - qualifier = "
EMPLOYEE - item = "
```



```
EMPLOYEE - subitem =
EMPLOYEE - runthis
EMPLOYEE - totalOcc = '6'
EMPLOYEE - Setting HTTPResponseHeaders
EMPLOYEE - Checking ContentType
EMPLOYEE - content-type = application/json
EMPLOYEE - ComponentToStruct $status = 0
EMPLOYEE - JSONRecords = '
 "OCC" : {
 "ID": 1,
  "NAME": "John",
  "BIRTHDATE": "19801212",
  "AGE": 35
},
 "OCC" : {
 "ID": 2,
  "NAME": "Laura",
  "BIRTHDATE": "19790211",
  "AGE": 37
},
 "OCC" : {
 "ID": 3,
  "NAME": "Peter",
  "BIRTHDATE": "19661022",
  "AGE": 50
 "OCC" : {
 "ID": 4,
  "NAME": "Joana",
  "BIRTHDATE": "19761111",
 "AGE": 40
},
 "OCC" : {
 "ID": 5,
  "NAME": "John",
  "BIRTHDATE": "19880818",
  "AGE": 28
 "OCC" : {
 "ID": 6,
  "NAME": "Samuel",
  "BIRTHDATE": "19850322",
  "AGE": 31
EMPLOYEE - URL = 'http://localhost:8084/uniface/wrd/EMPLOYEE/employee/2'
EMPLOYEE - Bound to = 'EMPLOYEE.BOOTSTRAP'
EMPLOYEE - output_type = 'JSON'
EMPLOYEE - type = 'employee'
EMPLOYEE - qualifier = '2'
EMPLOYEE - item = "
EMPLOYEE - subitem = "
EMPLOYEE - runthis
EMPLOYEE - totalOcc = '1'
EMPLOYEE - Setting HTTPResponseHeaders
EMPLOYEE - Checking ContentType
EMPLOYEE - content-type = application/json
EMPLOYEE - ComponentToStruct $status = 0
EMPLOYEE - JSONRecords = '
```



```
{
  "OCC" : {
  "ID" : 2,
  "NAME" : "Laura",
  "BIRTHDATE" : "19790211",
  "AGE" : 37
  }
}'
```

Click the tab to navigate back to our Project.



14. Putting it all together - Building the Employee List

This final exercise applies all of the concepts that have previously been accomplished. We will create snippets, modeled components, adding fields and entering procscript.

The objective is to create a modelled component that produces the following page:



Navigate to the STANDARDS project and open STANDARD SNIPPETS.

Create an HTML snippet called 'BOOTSTRAP LIST' by dragging the



```
<
```

The above code is available in 'Code Samples\Bootstrap List HTML Layout.txt'

Make sure to add a description and alternate name for the snippet.

Click the STANDARDS × tab to navigate back to our Project.

Drag the Modeled Component: Dynamic Server Page from the left-hand side of the screen onto the STANDARDS project in the center pane.



Rename MDSP 1 to "BOOTSTRAP LIST".

Select the Alternative Name field in the Properties pane and change it to "Bootstrap List". Change the Description to "Bootstrap list implementation".

Right-click on the BOOTSTRAP_LIST component and click 'Open'.

14.1 Add the Layout

Insert the Bootstrap List layout from the previous step into the Layout of the BOOTSTRAP_LIST component. You should also change the <H2>Data Title</H2> to something more useful such as <H2>Employees</H2>.

14.2 Establish Controls

Select Model tab and drag UENT.MODEL onto the BOOTSTRAP_LIST structure.

Rename the UENT.MODEL to DUMMY.NOMODEL.

From the Templates tab drag and insert under the DUMMY.NOMODEL the following:

Field Name	Datatype	Size	Widget	Widget Properties	Initial Value
SEARCHTEXT	String	C128	Editbox		
SEARCH	String	C10	Flatbutton	html: btn btn-info	Search
CLEAR	String	C10	Flatbutton	html: btn btn-info	Clear
SAVE	String	C10	Flatbutton	html: btn btn-info	Save

Select Model tab and drag UENTDB.MODEL onto the BOOTSTRAP LIST structure.

Drag the 'FIELD' under UENTDB.MODEL and rename it to 'NAMEFIELD'.

From the Templates tab under 'Entity control buttons' drag '

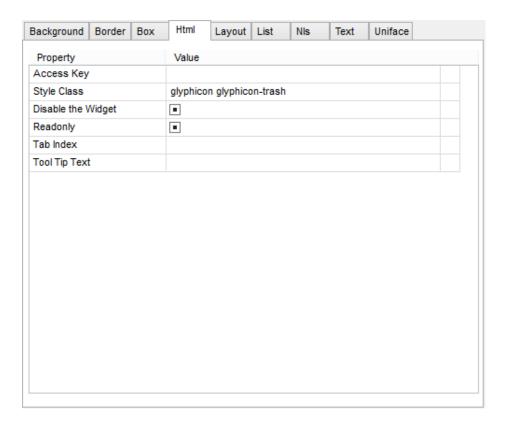


Clear the Initial Value of 'Delete' to empty.

Set the DSP Widget Type to 'flatbutton'

Set the DSP Widget Properties to:





Set the 'Is Generic' property to TRUE for UENTDB.MODEL and NAMEFIELD.UENTDB.

Add the following code to the BTN_REMOCC:

```
trigger detail

public web
scope
input
output
endscope

remocc "<$entname>", 0
store/e "<$entname>"
commit
```

SEARCH



CLEAR

```
Script
trigger detail
public web
; Your SCOPE block here (optional)...
; Your VARIABLES block here (ontional)...
; Your implementation here...
clear/e "<UENTDB>"
return (0)
-end
```

SAVE

```
Script
trigger detail
; Remove the current occurrence
public web
; Mark the occurence as deleted
putmess "Attempting to store data for '<UENTDB>'"
store/e "<UENTDB>"
if ($status = 1)
    webmessage/info "No data has been changed. Nothing to save."
    return (0)
endif
putmess "Saving '%%$entname' status was '%%$status'"
commit
if ($status = 0)
    webmessage "Data Saved"
endif
return (0)
```

tab to navigate back to our Project.

Click the

♠ DEMOPROJECT ×



14.3 Implement the BOOTSTRAP_LIST

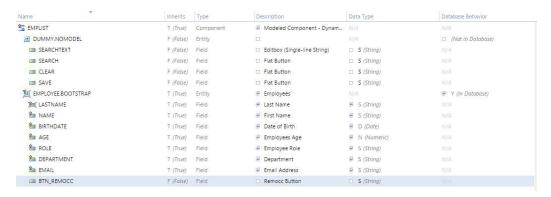
Drag a BOOTSTRAP_LIST onto your DEMOPROJECT from the Model tab.

Rename it 'EMPLIST'.

Rename UENTDB.MODEL to EMPLOYEE.BOOTSTRAP.

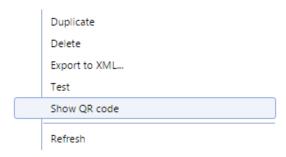
Rename NAMEFIELD to LASTNAME.

From the Model tab drag the remaining EMPLOYEE fields and insert them between the LASTNAME and BTN REMOCC.



Compile.

Actions -> Show QR Code



And Click on the QR Code to bring up the page.

Result:

Click the Search button:



