



Boost your app's interface with template component plugins!

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Oracle ACE
Pro



About me

Rodrigo Mesquita

✕ @mesquitarod



- 20 years of Oracle Experience
- Senior Oracle Developer at QV Systems - UK
leading software provider of asset back finance
such as auto finance
- My BLOG: apexblog.dev
- Oracle ACE Pro
- One of the #1 Winners of the Oracle APEX
Template Component Challenge 2024.
- 2018 - Best New Speaker Award - UKOUG



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Rodrigo Mesquita

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Plug-in type

Template Component (33)

Developer

- Show all -

Compatible with APEX Version

- Show all -

Commercial or Supported

- Show all -

Card View

Report View

Card View

My Plug-ins

Add Plug-in

Dynamic Typed Card 1.0

Template Component Plug-in

Oracle Tech Solutions

Date added: 26-Dec-2023

Last updated: 26-Dec-2023

Dynamic Typed Card

Responsive Number Counter 1.2

Template Component Plug-in

Timo Herwix

Date added: 20-Dec-2023

Last updated: 15-Jan-2024

This template component shows one (or multiple) animated coun...

Multi Purpose Card 1.0

Template Component Plug-in

Farooq Ahmad

Date added: 25-Nov-2023

Last updated: 25-Nov-2023

Multi Purpose Card

QR Contact Save 1.0

Template Component Plug-in

Farooq Ahmad

Date added: 14-Nov-2023

Last updated: 14-Nov-2023

QR Contact Save

Pretius Button Builder 23.2.1

Template Component Plug-in - Commercially Supported

Pretius

Date added: 03-Nov-2023

Last updated: 03-Nov-2023

A reimaging of Universal Theme's Button Builder as a Single Te...

Empty State 1.0

Template Component Plug-in

Louis Moreaux

Date added: 01-Nov-2023

Last updated: 01-Nov-2023

Display an empty state

Vertical Timeline 1.1

Template Component Plug-in

Rodrigo Mesquita

Date added: 01-Nov-2023

Last updated: 15-Nov-2023

Vertical Timeline Plugin with Menu Options.

Dashboard Cards 1.0

Template Component Plug-in

Rodrigo Mesquita

Date added: 01-Nov-2023

Last updated: 01-Nov-2023

Create nice cards with this template component plugin.

Progress Arrows 1.0

Template Component Plug-in

Michael Abele

Date added: 30-Oct-2023

Last updated: 30-Oct-2023

A simple template component to display the status or the progre...

LinkifyBadgeTC 1.0

Template Component Plug-in

Jens Kaschuba

Date added: 30-Oct-2023

Last updated: 30-Oct-2023

LinkifyBadgeTC improves the standard TC Badge and the possib...

UC - Parallax Region 23.2

Template Component Plug-in - Commercially Supported

United Codes

Date added: 30-Oct-2023

Last updated: 14-Dec-2023

Parallax scrolling is a visual effect where the background of a we...

BBC Results 1.0

Template Component Plug-in

Plamen Mushkov

Date added: 29-Oct-2023

Last updated: 29-Oct-2023

The BBC Results Template Component Plugin allows you to displ...

MinimapTC 1.0

Template Component Plug-in

Jens Kaschuba

Date added: 29-Oct-2023

Last updated: 29-Oct-2023

MinimapTC is a Template Component Wrapper for the Minimap ...

Conference Cards 1.0

Template Component Plug-in

Plamen Mushkov

Date added: 29-Oct-2023

Last updated: 29-Oct-2023

Conference Cards Template Component plugin allows you to cre...

Flip Card 23.2.0

Template Component Plug-in

Andrej Glica

Date added: 27-Oct-2023

Last updated: 27-Oct-2023

Oracle APEX template component to elevate your website with st...

Multiple Avatars 1.0

Template Component Plug-in

Louis Moreaux

Date added: 27-Oct-2023

Last updated: 27-Oct-2023

Display multiple avatars

IR_Row_Selector 1.0.0

Template Component Plug-in

Hayden Hudson

Date added: 26-Oct-2023

Last updated: 26-Oct-2023

A Plugin for Interactive Reports to imitate the Interactive Grid row...

Playing Cards 1.0

Template Component Plug-in

Velimir Corovic

Date added: 26-Oct-2023

Last updated: 26-Oct-2023

Visualization of playing cards, with built-in support for card flippin...

Ganttabi 0.2

Template Component Plug-in

hachemi zakaria

Date added: 23-Oct-2023

Last updated: 23-Oct-2023

Table to represent ressource schedule

Check Marks 23.2.2

Template Component Plug-in

Matt Mulvaney

Date added: 23-Oct-2023

Last updated: 27-Dec-2023

Displays Truthy (T, Y, 1) & Falsey (F, N, 0) as an Icon with alternati...

What are Template Components?

- Template Components are a new type of APEX plug-in for building UI components.
- Introduced in APEX 23.1.
- With support for actions, menus, and custom attributes.
- Universal Theme includes **6 plugins** that you can use without writing a single line of code.
- Plugin API is not required

Types of Template Components

- Single (Partial): For an interactive report column or for a region to show a single instance.
- Multiple (Report): for a region or report to show multiple rows with pagination options.

No more HTML in SQL queries

```
select t.id,
       t.task_name,
       t.assigned_to,
       case when s.status_name != 'Closed'
       then
         '<button class="t-Button t-Button--icon t-Button--iconLeft"
onclick="|| apex_util.prepare_url('f?p=' || v('APP_ID') || ':8:' || v('APP_SESSION') || '::'
|| v('APP_DEBUG') || '::P8_ID:' || t.id )||
      "' type="button" ><span class="t-Icon t-Icon--left fa '|| s.status_icon ||'" aria-
hidden="true"></span><span class="t-Button-label">'
      || s.status_name || '</span><span class="t-Icon t-Icon--right fa '|| s.status_icon ||'" aria-
hidden="true"></span></button>'
       else
         '<span aria-hidden="true" class="fa '|| s.status_icon ||'"></span>&nbsp;' || s.status_name
```

No more outputting HTML string out of the database

```
select ID,  
       task_name,  
       assigned_to,  
       status,  
       start_date,  
       pk_tasks.return_actions_html(id) actions_menu  
from tasks
```

DATA

```
select id,  
       task_name,  
       assigned_to,  
       status,  
       start_date  
from tasks  
where...
```

- Performance Improvement!!!
- Clean code

UI Logic

```
{if  
APEX$IS_LAZY_LOADIN  
G/  
<div><span aria-
```

- Re-usable
- Move some complexity out of the SQL

Template Components

- Template
Directives Single (Partial) `{if APEX$IS_LAZY_LOADING/}`
a single instance `<div><span aria-hidden="true" class="fa fa-refresh fa-2x fa-anim-`
- Multiple (Repeated) `spin"></span></div>`
pagination of `{else/}`
`<div class="dc-card" style="background:#CARD_COLOR#; opacity: 0.8; color:#CARD_FONT_COLOR#;">`
`{if CARD_ICON/}`
Custom
Attributes `<div class="dc-icon"><span style="color:#CARD_COLOR#;"`
`class="fa #CARD_ICON# fa-4x" aria-hidden="true"></span></div>`
Action
Position `{endif/}`
Actions `<div class="dc-title">#TITLE#</div>`
`<div class="dc-body">#CARD_BODY#</div>`
`<div class="dc-footer">`
`{if FOOTER_TEXT/}`

Custom Attributes

▼ Identification

TitleDashboard Cards

TypeDashboard Cards

▼ Source

LocationLocal Database

TypeSQL Query

SQL Query

SELECT 1 id_pk,
 'New Members' as title,
 '1000' as card_value,
 '50% INCREASE' as footer_text,
 '#40af73' as background_color,
 'fa-users' as card_icon,
 '#ffffff' as font_color,
 '2' as page_id

FROM DUAL
union
SELECT 2 id_pk,

▼ Appearance

DisplayMultiple (Report)

CSS Classes

▼ Settings

Title&TITLE.

Body&CARD_VALUE.

Font Color&FONT_COLOR.

Card Color&BACKGROUND_COLOR.

Icon&CARD_ICON.

Footer Text&FOOTER_TEXT.

▼ Performance

Lazy Loading

Custom Attributes

Custom Attributes		
Label	Static Identifier	Scope
Title	TITLE	Component
Body	CARD_BODY	Component
Font Color	CARD_FONT_COLOR	Component
Card Color	CARD_COLOR	Component
Icon	CARD_ICON	Component
Footer Text	FOOTER_TEXT	Component

```
{if APEX$IS_LAZY_LOADING/}  
  <div><span aria-hidden="true"  
    class="fa fa-refresh fa-2x fa-anim-  
    spin"></span></div>  
{else/}  
  <div class="dc-card"  
    style="background:#CARD_COLO  
    R#; opacity: 0.8;  
    color:#CARD_FONT_COLOR#;">  
    {if CARD_ICON/}  
      <div class="dc-icon"><span
```

- Performance
- Clean
- Prev

Card Title

Icon

PRODUCTS ON SALE

3500

50% SALE!

ment!!!

and security breaches

Template Directives

Conditional logic with the HTML instead of inside SQL and PL/SQL.

```
{if APEX$IS_LAZY_LOADING/}
<div><span aria-hidden="true" class="fa fa-refresh fa-2x fa-anim-spin"></span></div>
{else/}
<div class="dc-card" style="background:#CARD_COLOR#; opacity: 0.8;
color:#CARD_FONT_COLOR#;">
  {if CARD_ICON/}
    <div class="dc-icon"><span style="color:#CARD_COLOR#;" class="fa #CARD_ICON# fa-
4x" aria-hidden="true"></span></div>
  {endif/}
  <div class="dc-title">#TITLE#</div>
  <div class="dc-body">#CARD_BODY#</div>
  <div class="dc-footer">
    {if FOOTER_TEXT/}
      #FOOTER_TEXT#
    {endif/}
  </div>
  {if APEX$HAS_ACTION_BUTTONS/}
    <div class="dc-userActions">
      #ACTION_BUTTON#
    </div>
  {endif/}
</div>
{endif/}
```

Supported by:

- Template Component Plugins.
- Specific attributes in email templates.
- Regions: cards, interactive grid, classic report, application search, and interactive report region.

Template Directives

If

```
{if ITEM/}  
...  
{elseif !ITEM/}  
...  
{else/}  
...  
{endif/}
```

Case

```
{case ITEM/}  
  {when VALUE/}  
    ...  
  {when VALUE/}  
    ...  
  {otherwise/}  
    ...
```

Loop

```
{loop  
  "SEPARATOR"  
  ITEM/}  
  ...  
{endloop/}
```

With & Apply

```
{with/}  
...  
{apply  
  TEMPLATE/}
```



More details on the Oracle APEX
Universal Theme application

If

```
{if DISABLED_FLAG/}
```

Yes

```
{else/}
```

No

```
{endif/}
```

Case

```
{case GENDER/  
  {when M/  
    <span aria-hidden="true" class="fa fa-male fa-2x"></span>  
  {when F/  
    <span aria-hidden="true" class="fa fa-female fa-2x"></span>  
  {endcase/}
```

Loop

```
<ul>
  {loop ":" BADGES/}
    <li><span class="fa fa-trophy" aria-hidden="true"></span> &APEX$ITEM.</li>
  {endloop/}
</ul>
```

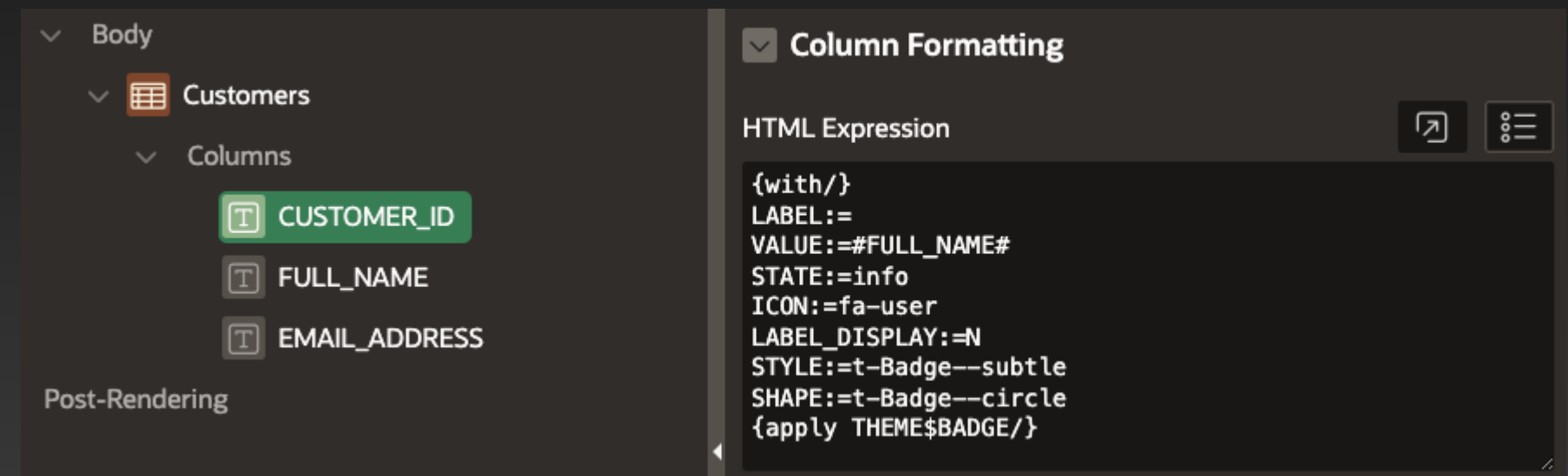
With & Apply

Add template components to

```
{with/}  
LABEL:=  
VALUE:=#FULL_NAME#  
STATE:=info  
ICON:=fa-user  
LABEL_DISPLAY:=N  
STYLE:=t-Badge--subtle  
SHAPE:=t-Badge--circle  
{apply THEME$BADGE/}
```

Custom
Attributes

Plugin Internal
Name



With/Apply Generator



Hot off the Application Express

By Matt Mulvaney



<https://mattmulvaney.hashnode.dev>

/

Q Go Actions ▾		
Name	With Apply	Copy
APEX.LUFCMATTYLAD.CARDS_LIST_UI	<pre>{with/} APILINK:= DESCRIPTION:= LOGO:= SUBTITLE:= TITLE:= {apply APEX.LUFCMATTYLAD.CARDS_LIST_UI/}</pre>	
APEX.LUFCMATTYLAD.CHECK_MARKS	<pre>{with/} COLUMN:= TREAT_NULL_AS:=FALSEY TREAT_NOT_NULL_AS:=TRUTHY LINK:= CUSTOM_ATTRIBUTES:= TRUTHY_ICON:=fa-check u-success-text u-bold FALSEY_ICON:=fa-times u-danger-text u-bold NULL_ICON:=fa-exclamation-triangle-o u-warning-text OTHER_VALUES_ICON:=fa-question-circle-o u-info-text {apply APEX.LUFCMATTYLAD.CHECK_MARKS/}</pre>	
COM.LUFCMATTYLAD.SUMMARY_CARD	<pre>{with/} HEADING_TEXT:= RESULT_DATA:=The JSON detail content MAX_SCORE:=The Maximum score e.g 100 RESULT_TEXT:=The Detail Header Text SCORE:=The Score attained, or headline value SECOND_HEADING:=The second heading SUBTITLE:=The paragraph text in the top section LINK:=The link the button directs to LINK_TEXT:= SHOW_CONFETTI:=Y {apply COM.LUFCMATTYLAD.SUMMARY_CARD/}</pre>	

Nesting Template Components

Conditional logic with the LTM1

```
{if APEX$IS_LAZY_LOADING/}
<div><span aria-hidden="true" class="fa fa-refresh fa-2x fa-anim-spin"></span></div>
{else/}
  <span class="fa #VT_ICON# vt-icon" aria-hidden="true"></span>
  <div class="vt-header">
    <div class="vt_header_text">#VT_TEXT#<br> #VT_SUBTEXT#</div>
    <div>{if APEX$HAS_ACTION_BUTTONS/} #MENU_ACTION# {endif/}</div>
  </div>
{case VT_DESC/}
  {when Order Canceled/}
    {with/}
    LABEL:=
    VALUE:=#VT_DESC#
    STATE:=danger
    ICON:=fa-times-circle-o
    LABEL_DISPLAY:=N
    STYLE:=t-Badge--md
    SHAPE:=t-Badge--circle
    {apply THEME$BADGE/}
  {otherwise/}
    <div class="vt-item-text">#VT_DESC#</div>
  {endcase/}
{endif/}
```

Actions

Add buttons or a menu to the template component

Action Position

```
{if APEX$IS_LAZY_LOADING/}
<div><span aria-hidden="true" class="fa fa-refresh fa-2x fa-anim-spin"></span></div>
{else/}
<div class="dc-card" style="background:#CARD_COLOR#; opacity: 0.8; color:#CARD_FONT_COLOR#;">
  {if CARD_ICON/}
    <div class="dc-icon"><span style="color:#CARD_COLOR#;" class="fa #CARD_ICON# fa-4x" aria-
hidden="true"></span></div>
  {endif/}
  <div class="dc-title">#TITLE#</div>
  <div class="dc-body">#CARD_BODY#</div>
  <div class="dc-footer">
    {if FOOTER_TEXT/}
      #FOOTER_TEXT#
    {endif/}
  </div>
  {if APEX$HAS_ACTION_BUTTONS/}
    <div class="dc-userActions">
      #ACTION_BUTTON#
    </div>
  {endif/}
</div>
{endif/}
```

_____ Action Position

Action Template

Identification

Name

ACTION_BUTTON

?

Settings

Type

Button

?

Action Template

?

↶

↷

🔍

1

2

3

#LABEL#

4

5

6

CS S

- Use APEX variables instead of specific colors.

```
.dc-card {
  padding: 10px;
  position: relative;
  color: black;
  border-color: var(--a-cv-state-border-color,var(--a-cv-type-border-color,var(--a-cv-border-color)));
  border-radius: 5px;
  border-style: solid;
  border-width: var(--a-cv-border-width,1px);
  box-shadow: var(--a-cv-state-shadow,var(--a-cv-type-shadow,var(--a-cv-shadow,none)));
}

.dc-footer {
  border-top: 1px solid;
  border-color: var(--a-cv-state-border-color,var(--a-cv-type-border-color,var(--a-cv-border-color)));
  min-height: 22px;
}
```

Add buttons or a menu to the template component

**Thank
You!**