


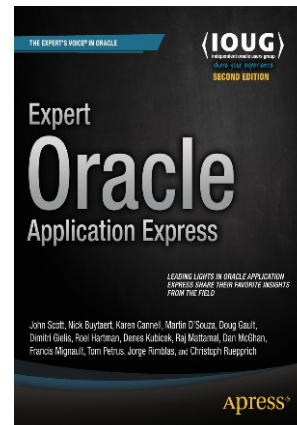
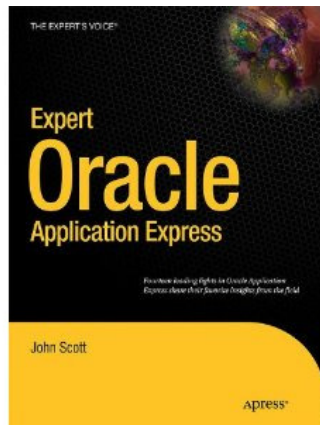
Using APEX Universal Theme

Denes Kubicek

Denes Kubicek

- We will keep this short:
 - My Name is Denes Kubicek – born 1965 in Croatia.
 - Working since 2007 as a freelancer on APEX and PL/SQL projects.
 - APEX Developer of the Year 2008.
 - Oracle ACE Director. The logo for Oracle ACE Director, featuring a yellow 'A' in a circle next to the text 'ORACLE ACE Director'.
 - I have many customers in Germany, Switzerland and other countries around the world.
 - I am an active member of the APEX Forum and have more than 6000 postings – usually answering the questions.
 - Published three books on APEX – one in German and two books in English.
 - I have my own APEX blog:
<http://www.deneskubicek.blogspot.de/>
 - You can always reach me under the following email address:
deneskubicek@yahoo.de







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-  jariola
-  fac586
-  ATD
-  438381
-  TexasApexDeveloper
-  Denes Kubicek

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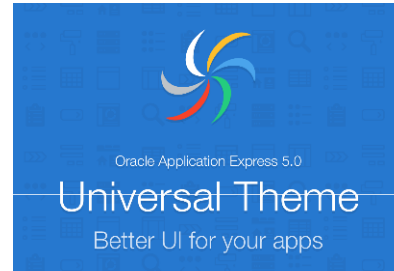
Find Oracle ACEs

Search Display  ACE
 ACE Director

Name	Company	Location	Expertise	Home Page
 Denes Kubicek		Germany	Database App Development	 Profile
 Dennis Remmer	LogicaTech	Australia	Middleware & SOA	 Profile
 Dimitri Gielis	Apex Evangelists Ltd	Belgium	Database App Development	 Profile
 Dion Cho	Exem	Korea	Database Management & Performance	 Profile
 Dmitri Khanine	StellentExperts.com	Canada	Enterprise Content Management	 Profile

Agenda

- Universal Theme – Overview
- Universal Theme – 5 Top Features
- Universal Theme – Wrap Up
- Universal Theme – Next Steps and Demo



APEX Universal Theme Overview

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APEX Universal Theme Overview

- Universal Theme is the new Responsive Design handling in APEX.
- It is a major change compared to the previous releases.
- The old template concept has been replaced with a new one – one template instead of numerous templates.
- Universal Theme is a new approach in layout design.
- It uses the most recent techniques of web design.
- Universal, Responsive, Customizable and Smart.

APEX Universal Theme Overview

- Universal Theme has a several features:
 - Modern Interface,
 - Responsive Design,
 - Reusable,
 - Extendable,
 - Used for many application types,
 - Out of the Box,
 - It doesn't require expertize in:
 - HTML
 - CSS
 - Java script
 - Productive and
 - One Theme instead of numerous.

APEX Universal Theme Overview

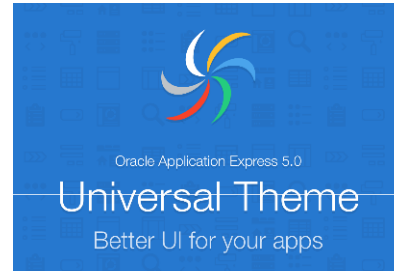
- Background:
 - Universal Theme the number 42 - <http://de.wikipedia.org/wiki/42> (answers why),
 - Wants to solve all the theme problems in the future releases of APEX and
 - Wants to establish one single point for the development of customized themes (Corporate Layout).
- Reasons:
 - In earlier days of APEX, we had to start a process for a theme change.
 - In the future this should be run from within an application by clicking a button for the theme change.
 - It should still remain updatable since locked and no changes in the core can be made.

APEX Universal Theme Overview

- Universal Theme supports all screen sizes and the size of a screen doesn't affect the application.
- It is vector based and no pixel graphics involved. We can zoom into the icons, resize those and will experience no quality reduction.
- It is also suitable for mobile devices and supports touch screens.
- Template Options are the keyword!
- It provides flexible customizing options without creating own layouts and touching the core. We can achieve this by using:
 - Some HTML,
 - A bit of CSS and
 - Eventually jQuery.

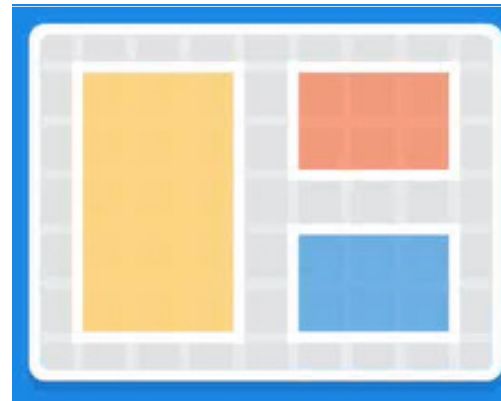
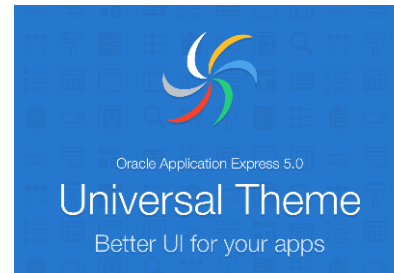
APEX Universal Theme Overview

- Universal Theme implements new Marquee Features.
- Keyboard friendly and user friendly providing:
 - Screen Reader and
 - Contrast Checking.



APEX Universal Theme Top 5 Features

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Grid Layout Forms

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Grid Layout Forms

- Grid Layout:
 - Flexible and built in Grids,
 - Declarative Column Width (Attributes),
 - Suitable for creating complex layouts,
 - Theme 25 as base (the first APEX Theme with Responsive Layout) adjusted.

Grid Layout Forms

The screenshot displays a web application interface for managing projects. The main content area is titled "Project" and contains a form with the following fields:

- Key: AAAB
- Project: Demo Project 1
- Parent Project: Click icon to optionally identify a parent project
- Status: Hot
- Category: Default
- Lockdown: No; Available to All
- Primary URL: (empty)

Below the form is a table for "Owner(s)" with the following columns: "Owner(s)", "Description / Goals / Customer / Tags", and "Tags". The table contains one row with the value "sam.ple" in the "Owner(s)" column.

The interface includes a sidebar with navigation options: Home, Projects (3), Popularity, Categories, Status, Owners, Tree, Dashboard, Interactive Report, Utilities, Additional Reports, Milestones (4), Action Items (3), Attachments (0), Updates (2), Status Reports (0), Owners, and Administration. The top navigation bar shows "P-Track" and "Mobile Help apex_new_features".

Grid Layout Forms

- Simple Form:

Universal Theme Hands On Start Log Out

UT Grid Layout For... ▾

Form Simple
Form zwei Spalten
Form Komplex

UT Grid Layout Regions

Form on OM_PROD_CATEGORIES_V

Pcat Code *	<input type="text"/>
Pcat Title	<input type="text"/>
Path Level	<input type="text"/>
Path	<input type="text"/>
Pcat Parent Id	<input type="text"/>
Pcat Created By *	<input type="text"/>
Pcat Created On *	<input type="text"/>
Pcat Updated By *	<input type="text"/>
Pcat Updated On *	<input type="text"/>
Pcat Updated Desc	<input type="text"/>

Cancel Create

Home Application 111 Edit Page 1 Session View Debug Debug Hide Grid Quick Edit Theme Roller

Grid Layout Forms

- Two Column Form:

Universal Theme Hands On Start Log Out

UT Grid Layout For... ▾

Form Simple
Form zwei Spalten
Form Komplex

UT Grid Layout Regions

Form on OM_PROD_CATEGORIES_V

Pcat Code *	<input type="text"/>	Pcat Title	<input type="text"/>
Path Level	<input type="text"/>	Pcat Parent Id	<input type="text"/>
Path	<input type="text"/>		
Pcat Created By *	<input type="text"/>	Pcat Created On *	<input type="text"/>
Pcat Updated By *	<input type="text"/>	Pcat Updated On *	<input type="text"/>
Pcat Updated Desc	<input type="text"/>		

Home Application 111 Edit Page 2 Session View Debug Debug Hide Grid Quick Edit Theme Roller

Grid Layout Forms

- Complex Form:

Universal Theme Hands On Start Log Out

UT Grid Layout For... ▾

Form Simple
Form zwei Spalten
Form Komplex

UT Grid Layout Regions

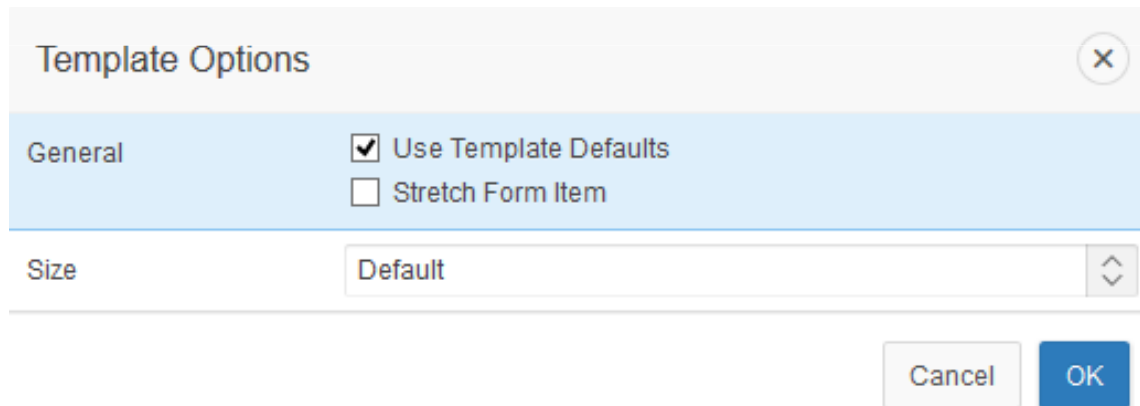
Form on OM_PROD_CATEGORIES_V

Pcat Code	Pcat Title	Path Level	Pcat Parent Id
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Path			
<input type="text"/>			
Pcat Created By *	Pcat Created On *	Pcat Updated By *	Pcat Updated On *
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pcat Updated Desc			
<input type="text"/>			

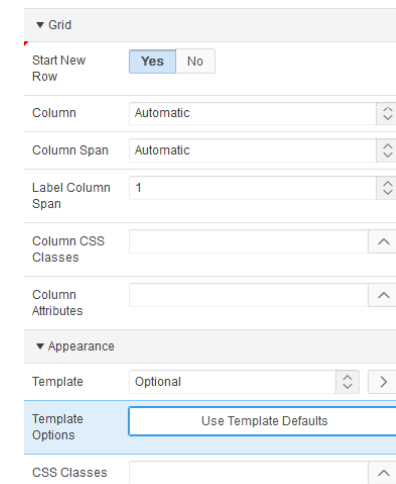
release 1.0 Set Screen Reso... Home Application 111 Edit Page 3 Session View Debug Debug Hide Grid Quick Edit Theme Roller

Grid Layout Forms

- We will demonstrate a bit and:
 - Look at the template options,
 - Label Column Span and
 - Change the Template Options for a region – this will override the template options for the corresponding region items.



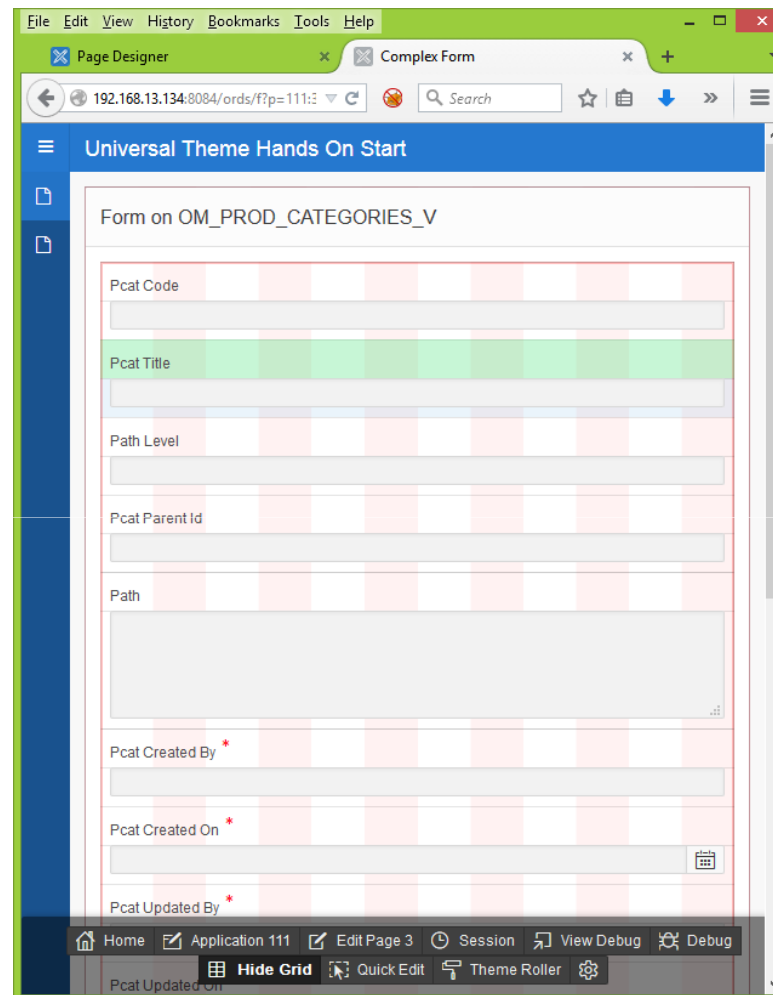
The 'Template Options' dialog box is shown with a close button (X) in the top right corner. It has two sections: 'General' and 'Size'. In the 'General' section, there are two checkboxes: 'Use Template Defaults' (checked) and 'Stretch Form Item' (unchecked). In the 'Size' section, there is a dropdown menu set to 'Default'. At the bottom right, there are 'Cancel' and 'OK' buttons.



The 'Grid' configuration panel is shown with a close button (X) in the top right corner. It has a 'Start New Row' section with 'Yes' and 'No' buttons. Below that are several dropdown menus: 'Column' (Automatic), 'Column Span' (Automatic), 'Label Column Span' (1), 'Column CSS Classes', and 'Column Attributes'. There is also an 'Appearance' section with a 'Template' dropdown (Optional) and a 'Template Options' dropdown (Use Template Defaults). At the bottom, there is a 'CSS Classes' dropdown.

Grid Layout Forms

- Let us change the screen width:



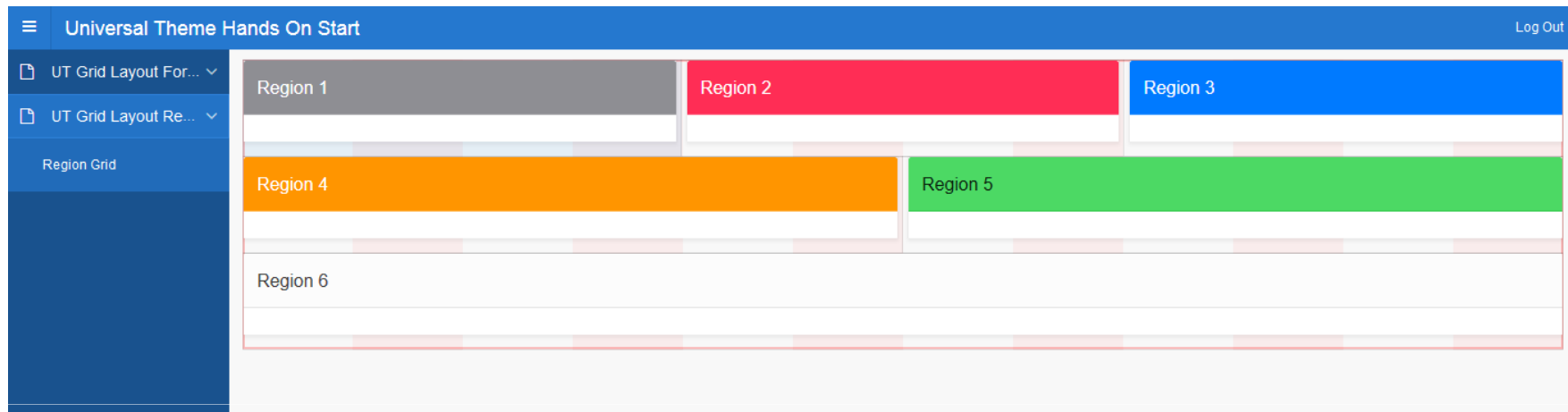


Grid Layout Regions

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Grid Layout Regions

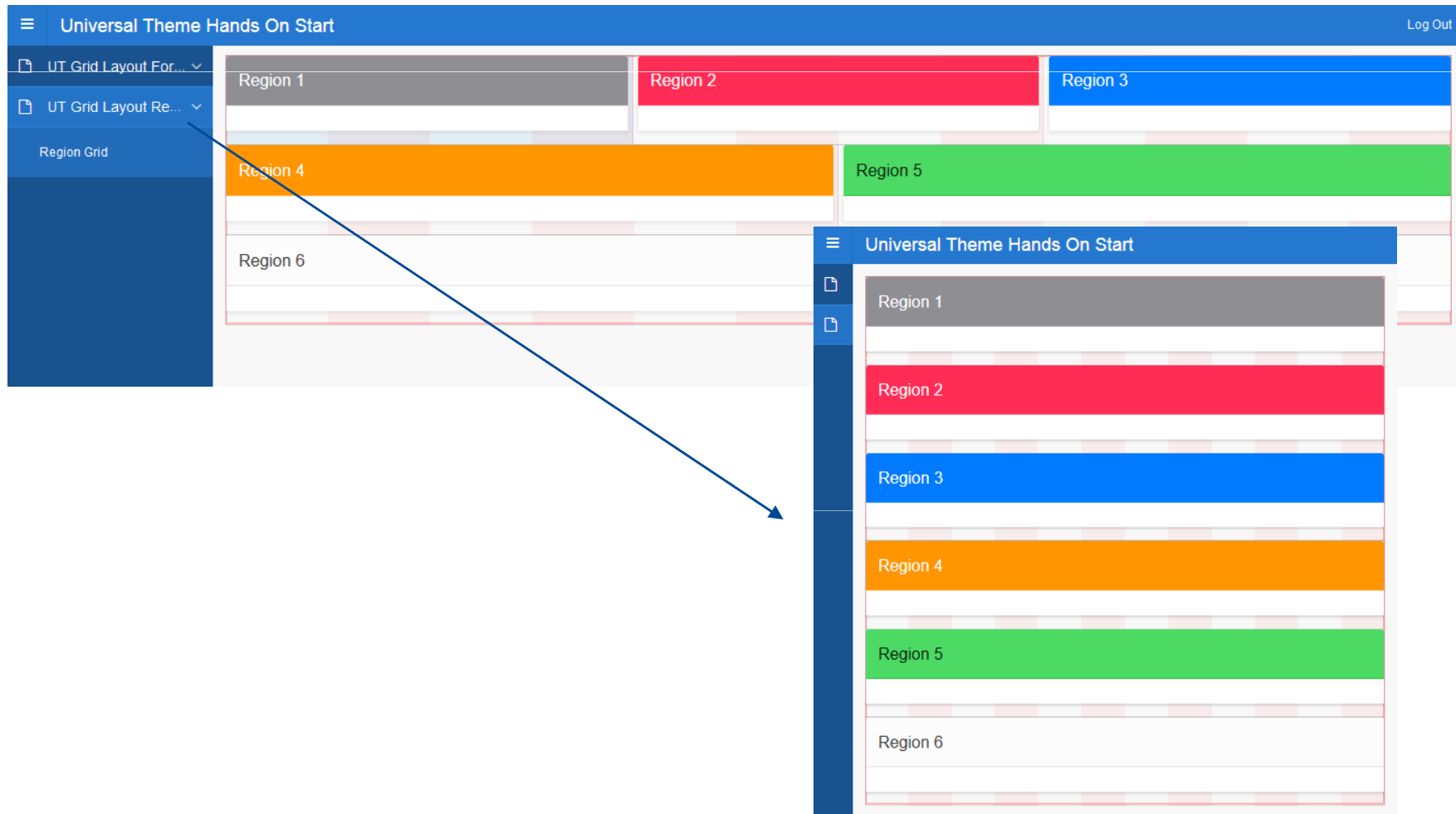
- Multiple regions on one page:



Grid Layout Regions

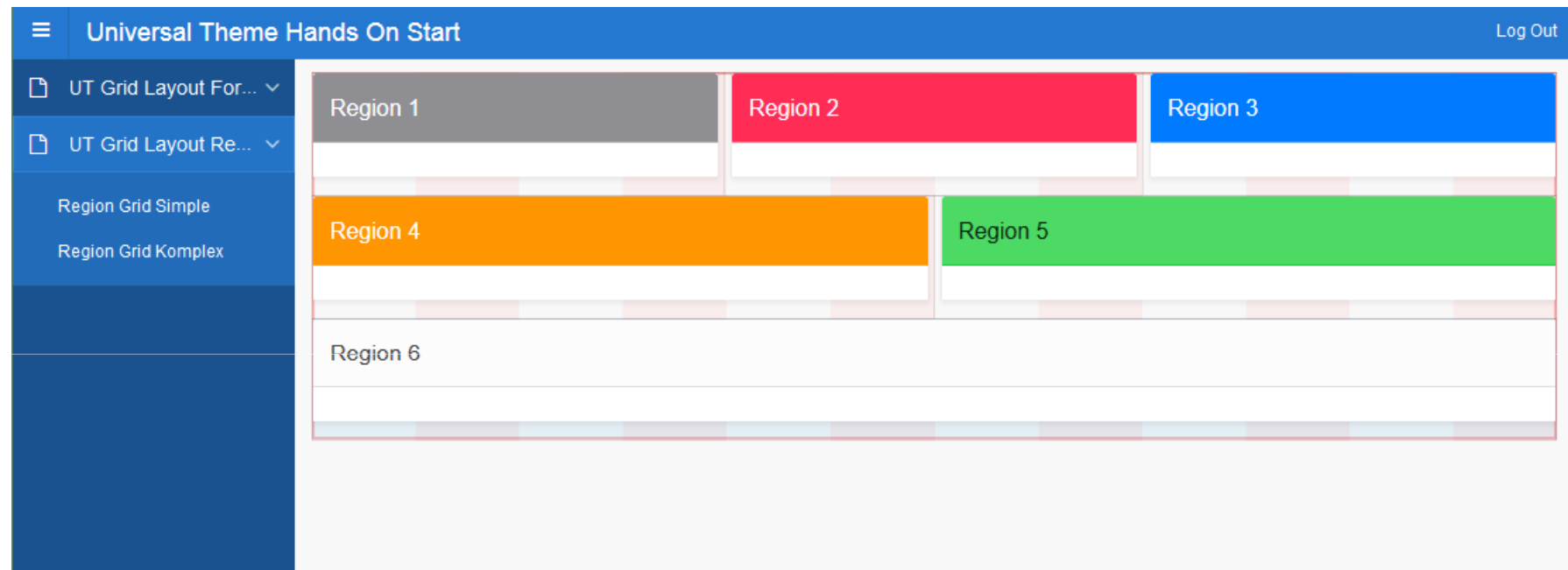
- We can:
 - Move the regions,
 - Replace the position of the regions and
 - verschachtelt werden
 - ohne, dass das Layout zerstört wird.
- Die Anordnung der Regionen passt sich automatisch dem Bildschirm an.

Grid Layout Regions



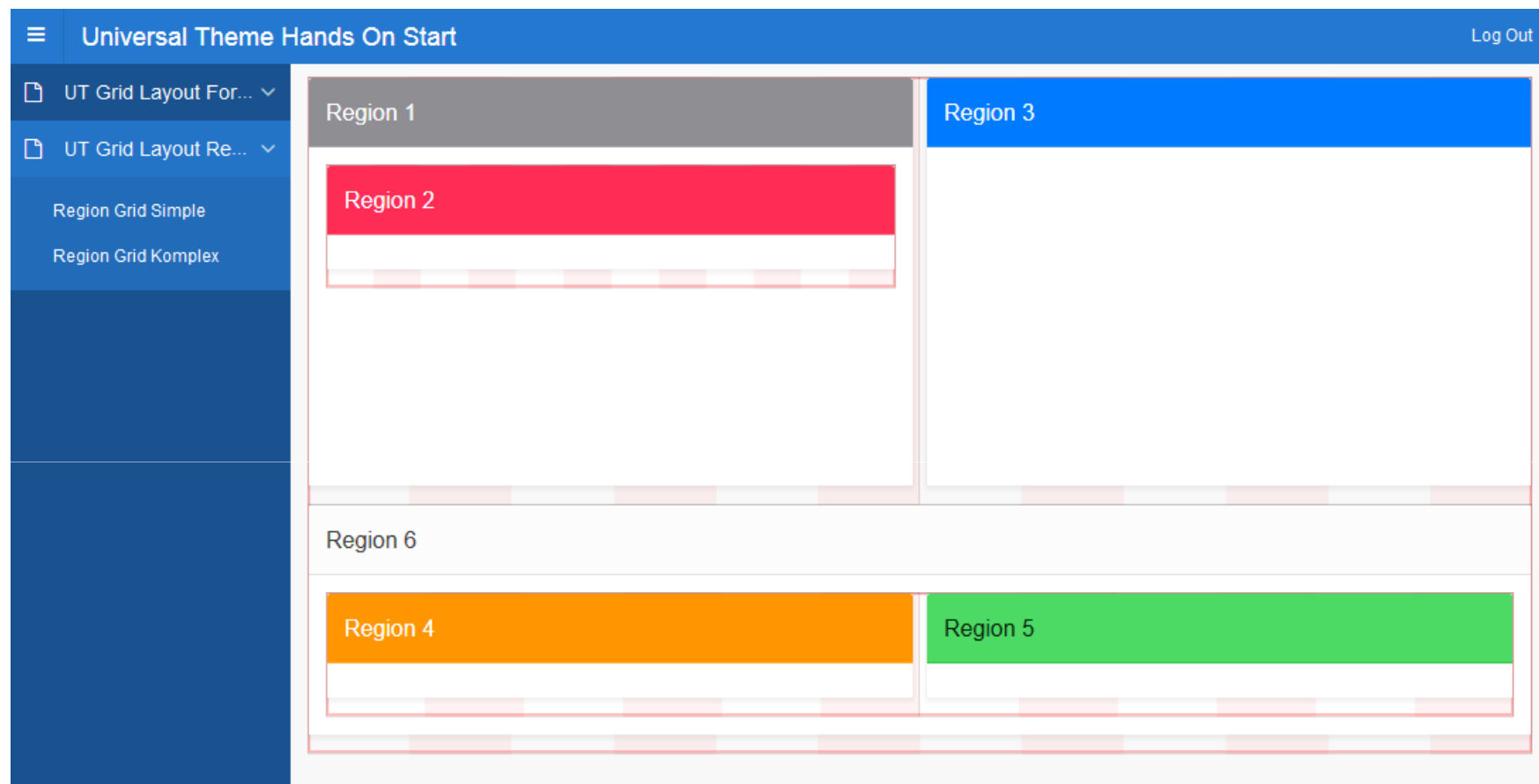
Grid Layout Regions

- Simple positioning of regions:



Grid Layout Regions

- Complex positioning of regions:



Grid Layout Forms

- We will demonstrate a bit and:
 - Change the Template Options and
 - GRID Layout.

Template Options

▼ Common

General Use Template Defaults
 Remove Body Padding
 Show Maximize Button

Body Height 240px

Header Visible - Default

Accent Accent 2

Style Default

▼ Advanced

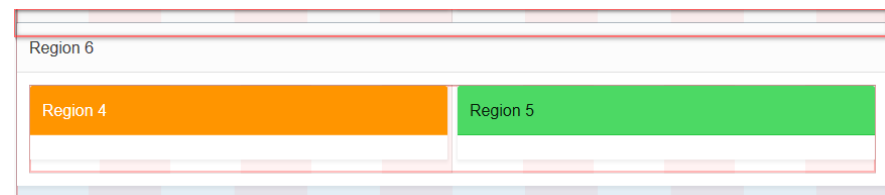
Body Overflow Scroll - Default

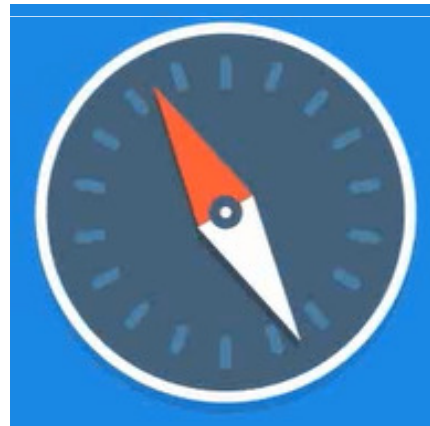
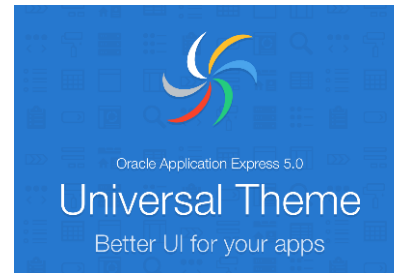
Item Padding Default

Item Size Default

Item Width Default

Cancel OK





Navigation

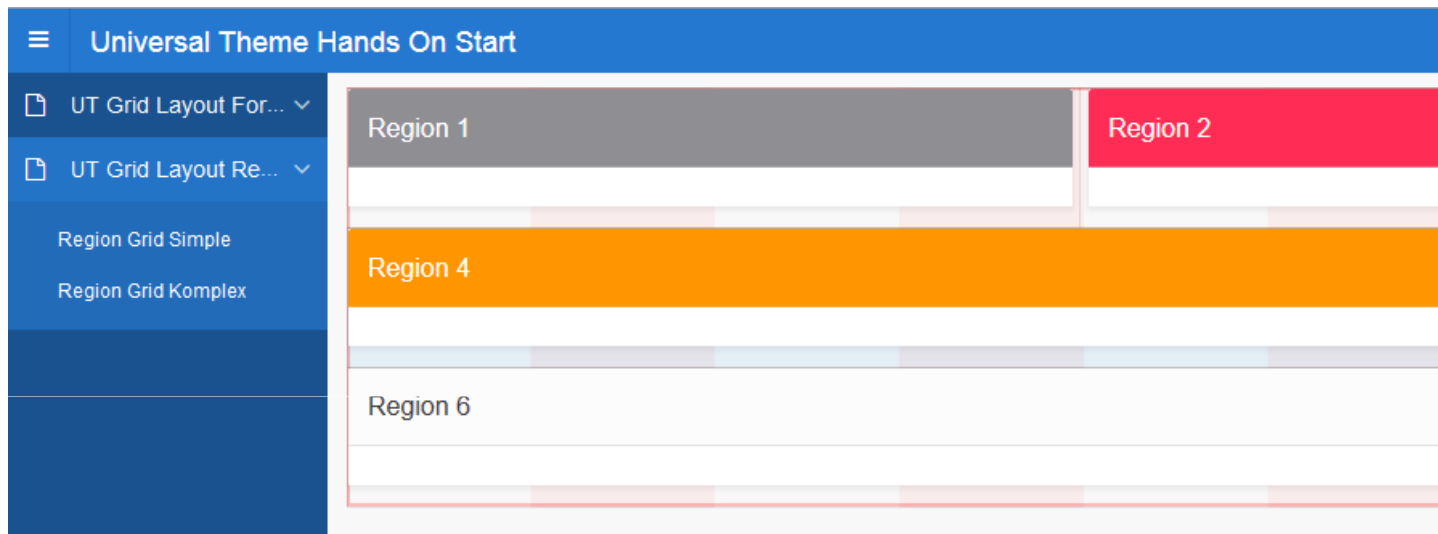
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Navigation

- Navigation:
 - Tabs are obsolete and not supported any more,
 - Lists are the new Tabs,
 - They are more flexible,
 - No submit of the page and
 - Also the navigation bar is affected.
- Lists:
 - Can be placed on the side or
 - On the top.
- Navigation Bar:
 - Works like a list.

Navigation

- List Sidebar:



Navigation

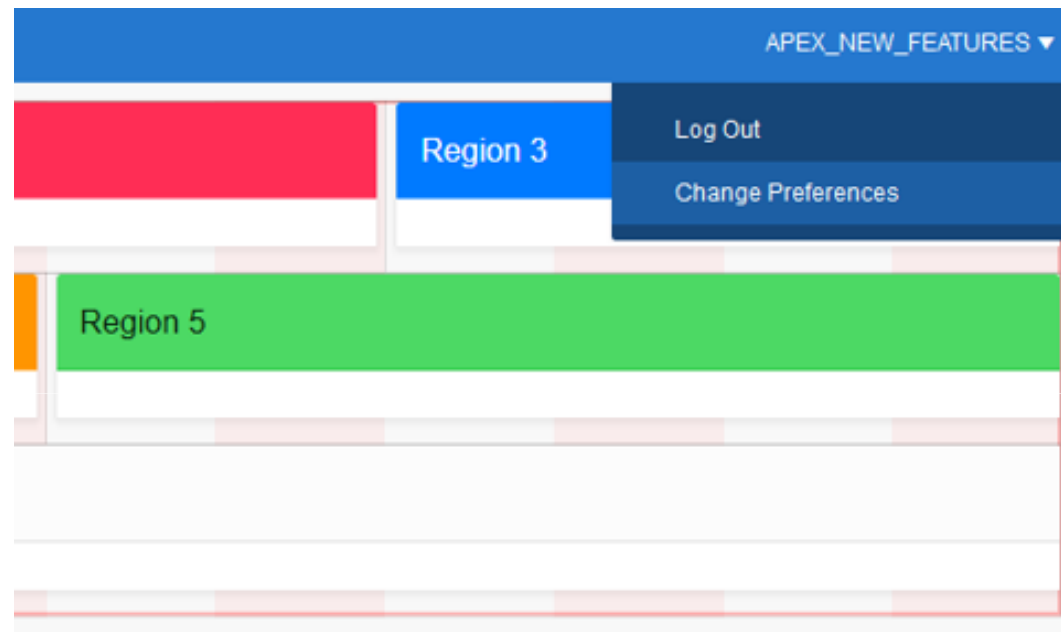
- List on Top:

The screenshot shows the Oracle APEX 'User Interface Builder' interface. At the top, there are navigation tabs for 'Application Express', 'Application Builder', 'SQL Workshop', 'Team Development', and 'Packaged Apps'. Below these, the breadcrumb path is 'Application 111 > User Interfaces > User Interface Details'. The main content area is titled 'User Interface Details' and has tabs for 'Definition', 'Security', 'Globalization', and 'User Interface'. Under 'User Interface', there are sub-tabs for 'Show All', 'Identification', 'Attributes', 'Navigation Menu', and 'Navigation Bar'. The 'Navigation Menu' sub-tab is active. Below this, the 'Navigation Menu List' is set to 'Desktop Navigation Menu', 'Position' is 'Top', and 'List Template' is 'Top Navigation Menu'. A 'Template Options' section is visible with the following settings: 'Use default template options' (checked), 'Add Actions' (unchecked), 'Behave Like Tabs (Default)' (checked), 'Enable Slide Animation' (unchecked), and 'Show Sub Menu Icons' (unchecked). An arrow points from the 'List Template' dropdown to the 'Top Navigation Menu' option.

The screenshot shows a 'Universal Theme Hands On Start' page. The page has a blue header with the text 'Universal Theme Hands On Start' and a 'Log Out' button. Below the header, there are two dropdown menus: 'UT Grid Layout Forms' and 'UT Grid Layout Regions'. The 'UT Grid Layout Regions' dropdown is open, showing two options: 'Region Grid Simple' and 'Region Grid Komplex'. Below these, there are six regions arranged in a grid: 'Region 1' (grey), 'Region 2' (red), 'Region 3' (blue), 'Region 4' (orange), 'Region 5' (green), and 'Region 6' (white). The regions are arranged in a 2x3 grid, with 'Region 1' and 'Region 2' in the first row, 'Region 3' and 'Region 4' in the second row, 'Region 5' and 'Region 6' in the third row, and 'Region 6' in the fourth row.

Navigation

- Navigation Bar:



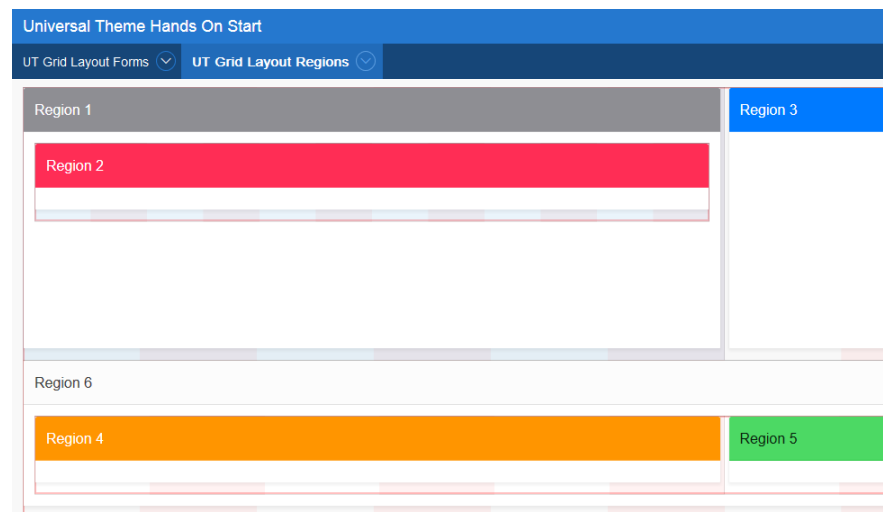
Navigation

- Navigation on the page level can be different than the application default:

The screenshot shows the 'Page' configuration panel with the following settings:

- User Interface: Desktop
- Page Mode: Normal
- Page Template: Theme Default
- Template Options: Use Template Defaults
- CSS Classes: (empty)
- Media Type: (empty)
- Navigation Menu
 - Override User Interface Level: Yes
 - List: Desktop Navigation Menu
 - List Position: Top
 - List Template: Top Navigation Menu
 - Template Options: Use Template Defaults
- Navigation
 - Cursor Focus: Do not focus cursor

An arrow points from the 'List Template' dropdown menu to the right-hand image.



Navigation

- We can set the navigation on the application level:
 - Shared Components
 - User Interface Attributes

ORACLE Application Express Application Builder SQL Workshop Team Development Packaged Apps

Application 111 > User Interfaces

Definition Security Globalization **User Interface**

Application 111

Show All User Interfaces General Properties Logo

User Interfaces

Name	Type	Default	Auto Detect	Global Page	Theme
Desktop		✓		0	Universal Theme - 42

General Properties

- Desktop

Definition Security Globalization **User Interface**

User Interface Details

Show All Identification Attributes **Navigation Menu** Navigation Bar

Navigation Menu

Navigation Menu List Desktop Navigation Menu ⓘ

Position Side ⓘ

List Template Side Navigation Menu ⓘ

Template Options Use default template options ⓘ

Navigation

- For specific Templates there are also additional options:

User Interface Details

Show All Identification Attributes **Navigation Menu**

Navigation Menu

Navigation Menu List Desktop Navigation Menu ?

Position Side ?

List Template Top Navigation Menu ?

Template Options

- Use default template options** ?
- Add Actions
- Behave Like Tabs (Default)
- Enable Slide Animation
- Show Sub Menu Icons

Navigation

- We can choose from the pool of Font-Awesome Icons:

Application 111 > Shared Components > List Details > Create / Edit

< > List Entry

Show All	Entry	Target	Current List Entry	Conditions
Entry				

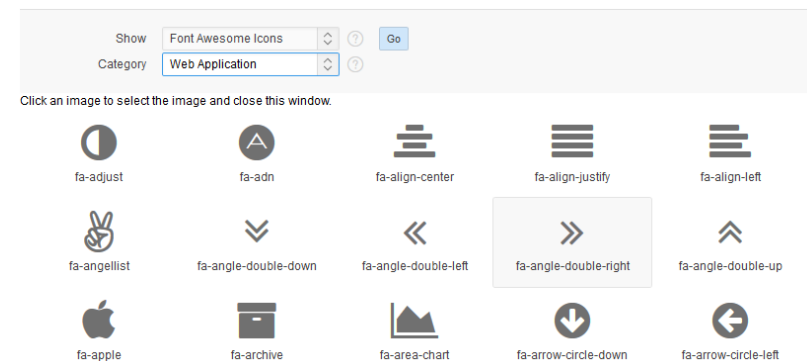
List: **Desktop Navigation Bar** ⓘ

Parent List Entry: - No Parent List Item - ⓘ

Sequence: ⓘ

Image/Class: ⓘ

Attributes: ⓘ



Navigation

- We can choose from the pool of Font-Awesome Icons:

< > List Entry

Show All **Entry** Target Current List Entry Conditions Authorization

Entry

List: **Desktop Navigation Bar** ?

Parent List Entry: - No Parent List Item - ?

Sequence: 1 ?

Image/Class: fa-question-circle ^ ?

Attributes: ^ ?

Alt Attribute: ?

* List Entry Label: Help

< > List Entry

Show All Entry Target Current List Entry Conditions Authorization

User Defined Attributes

Substitution strings #A01# - #A20# are optional attributes within a list template, which can be used to reference list entry user defined attributes 1 - 10, respectively. substitution strings in use in the list templates available in the current application.

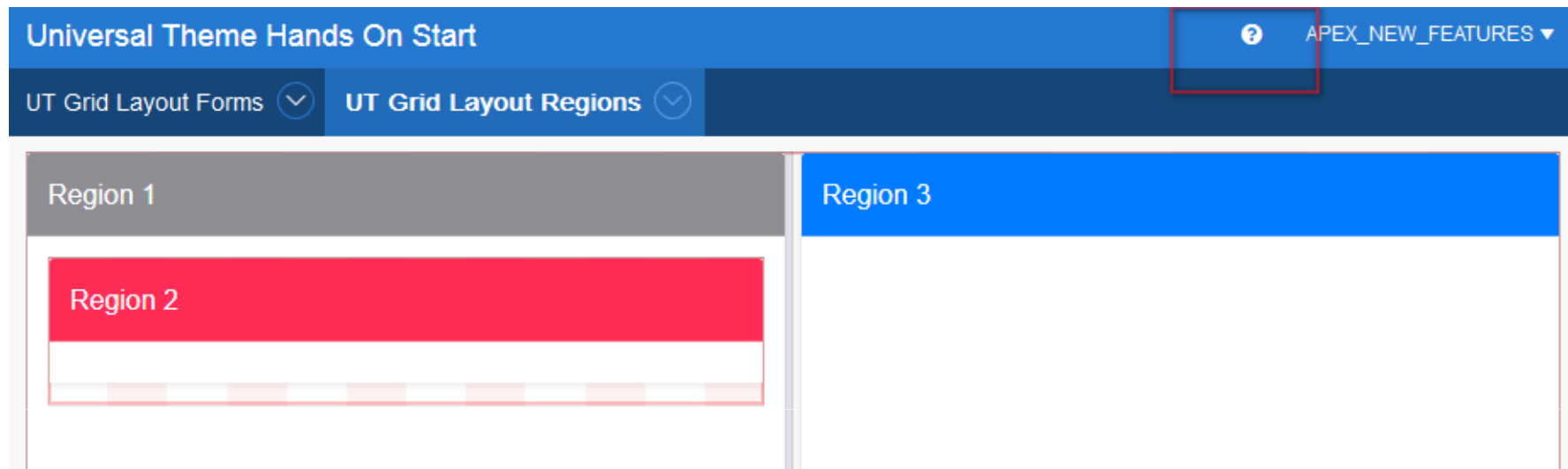
Translatable

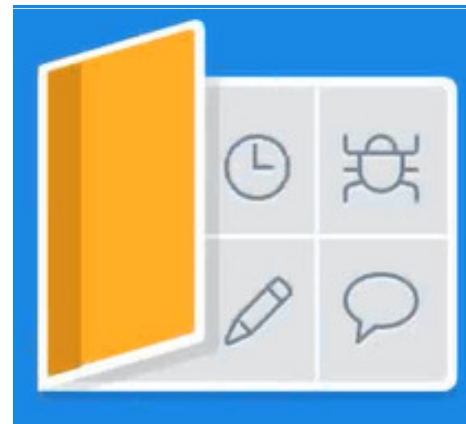
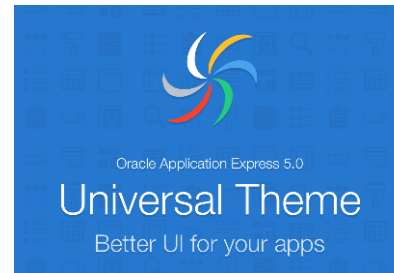
1.

2. icon-only ?

Navigation

- Result – Navigation Bar:





Font Awesome

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Font Awesome

- Font Awesome is a new feature in APEX 5.0.
- All icons used in Page Designer can also be used in our applications.
- Over 400 icons available.
- Easy to choose from the library and pick up.
- We can load additional icons from the central source.

Font Awesome

- If the region template supports `#ICON_CSS_CLASSES#` we can easily show the icons in our regions:

Grid Layout	Messages	Page Search	Help
-------------	----------	-------------	------

Icon CSS Classes

Enter additional space delimited CSS classes to display an icon. Your template must include the `#ICON_CSS_CLASSES#` substitution string.

Examples

Show an arrow pointing right

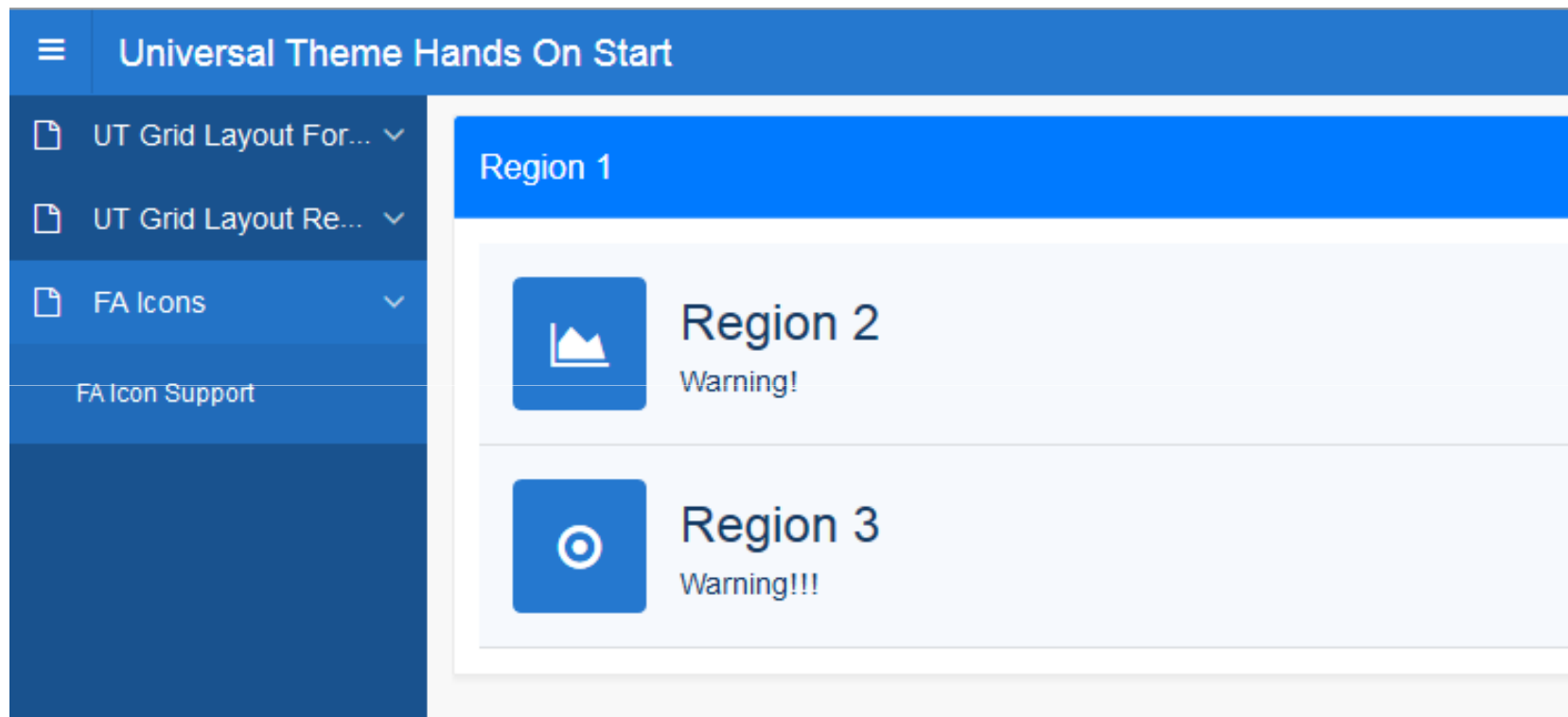
Additional Information

- Type: MODEL.HELP.PROP_TYPE.ICON

[Provide Feedback on Help](#)

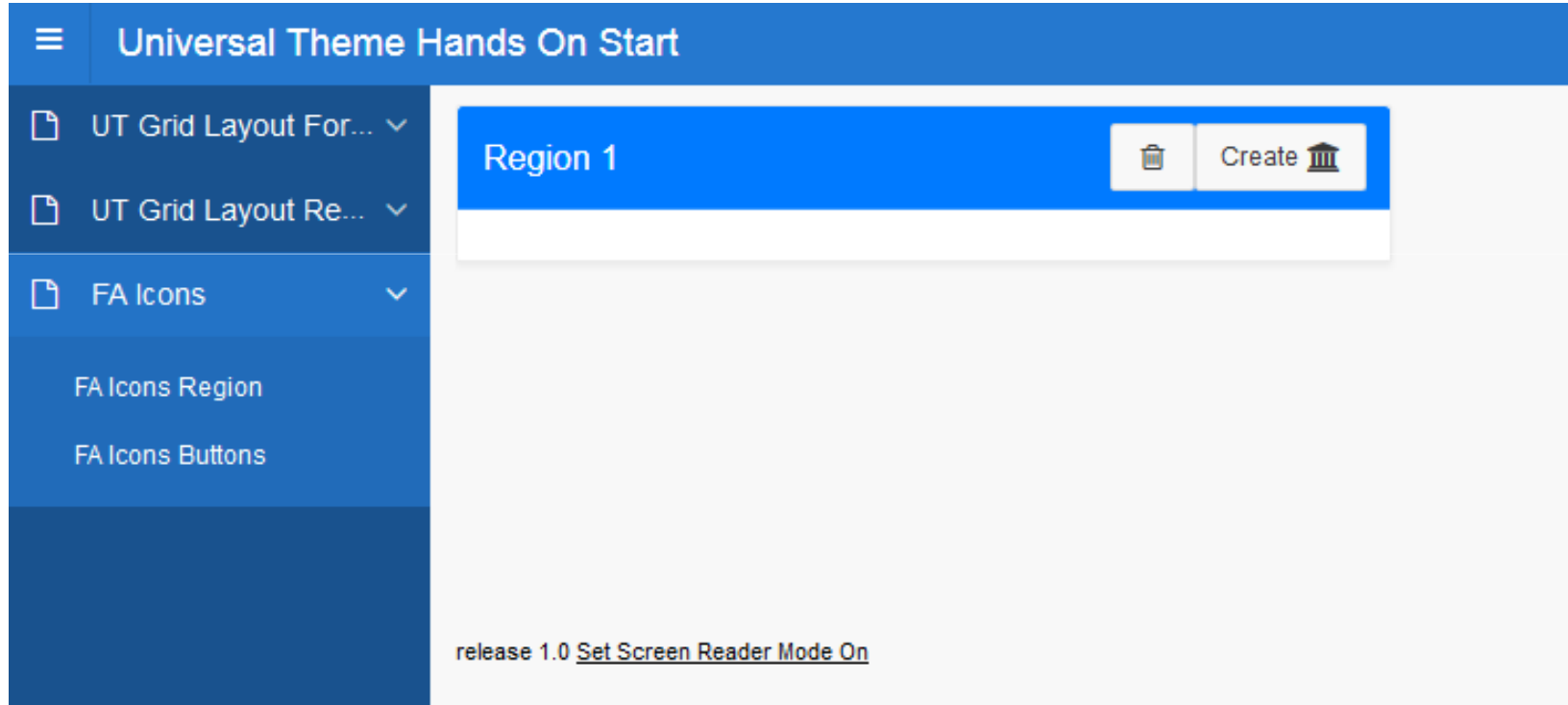
Font Awesome

- If the region template supports `#ICON_CSS_CLASSES#` we can easily show the icons in our regions:



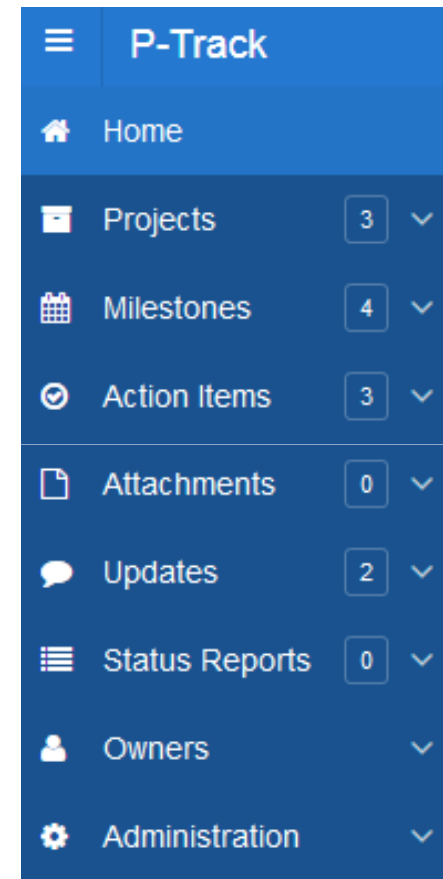
Font Awesome

- We can show our buttons as:
 - Text only,
 - Icon only or
 - Text and Icon.



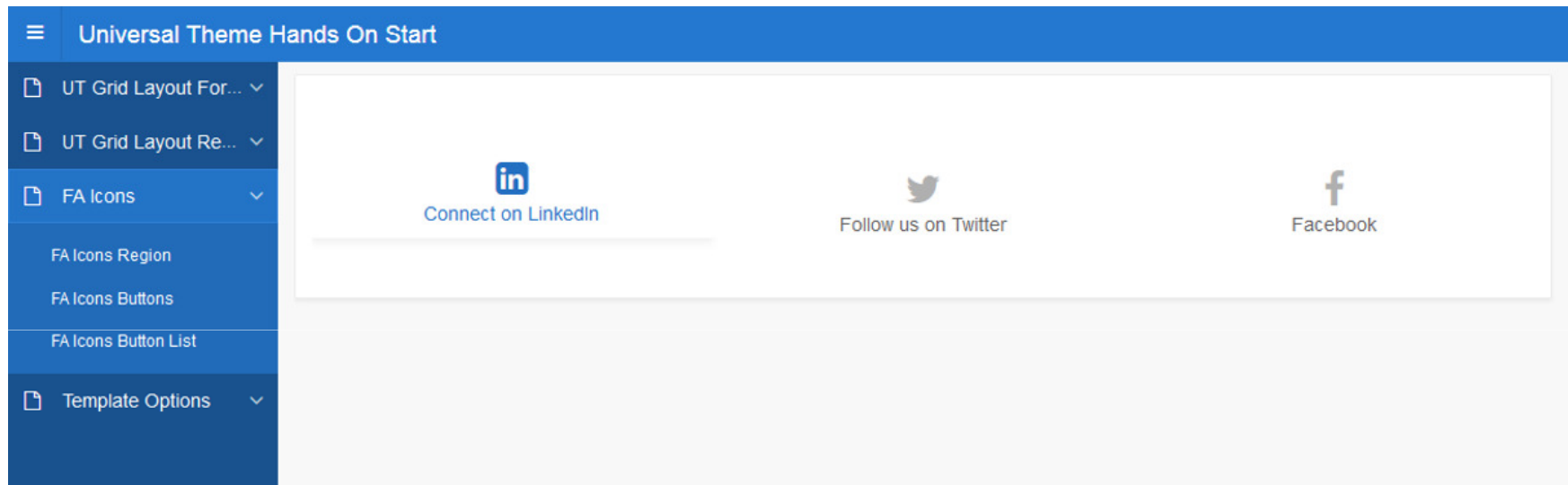
Font Awesome

- The same way we can use Font Awesom for all the other elements in our application:
 - Listes,
 - „Tabs“,
 - Navigation Bar,
 - Items,
 - Other Elements like Plugins.



Font Awesome

- Even if we create regions using PL/SQL code:



Font Awesome

- Font Awesome is very easy to use and can be referenced as a class:

```
<div class="container">
<div class="row">
<div class="col col-12 ">
<div class="t-SocialFooter">
<div class="row">
<div class="col col-2">
<a target="_blank" href="http://www.linkedin.com/skills/skill/deneskubicek">
<span class="t-Icon fa fa-linkedin-square"></span>
Connect on LinkedIn
</a>
</div>
<div class="col col-2">
<a target="_blank" href="http://twitter.com/dkubicek">
<span class="t-Icon fa fa-twitter"></span>
Follow us on Twitter
</a>
</div>
<div class="col col-2">
<a target="_blank" href="https://facebook.com">
<span class="t-Icon fa fa-facebook"></span>
Facebook
</a>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
```

Font Awesome

- Template Options and Fonts Awesome:

Region

≡ ≡ ≡ ≡ ↶

▼ Identification

Title

Type ⌵ ⋮

▼ Source

Text

▼ Layout

Sequence

Parent Region ⌵ >

Position ⌵ ⋮

▼ Appearance

Template ⌵ >

Template Options

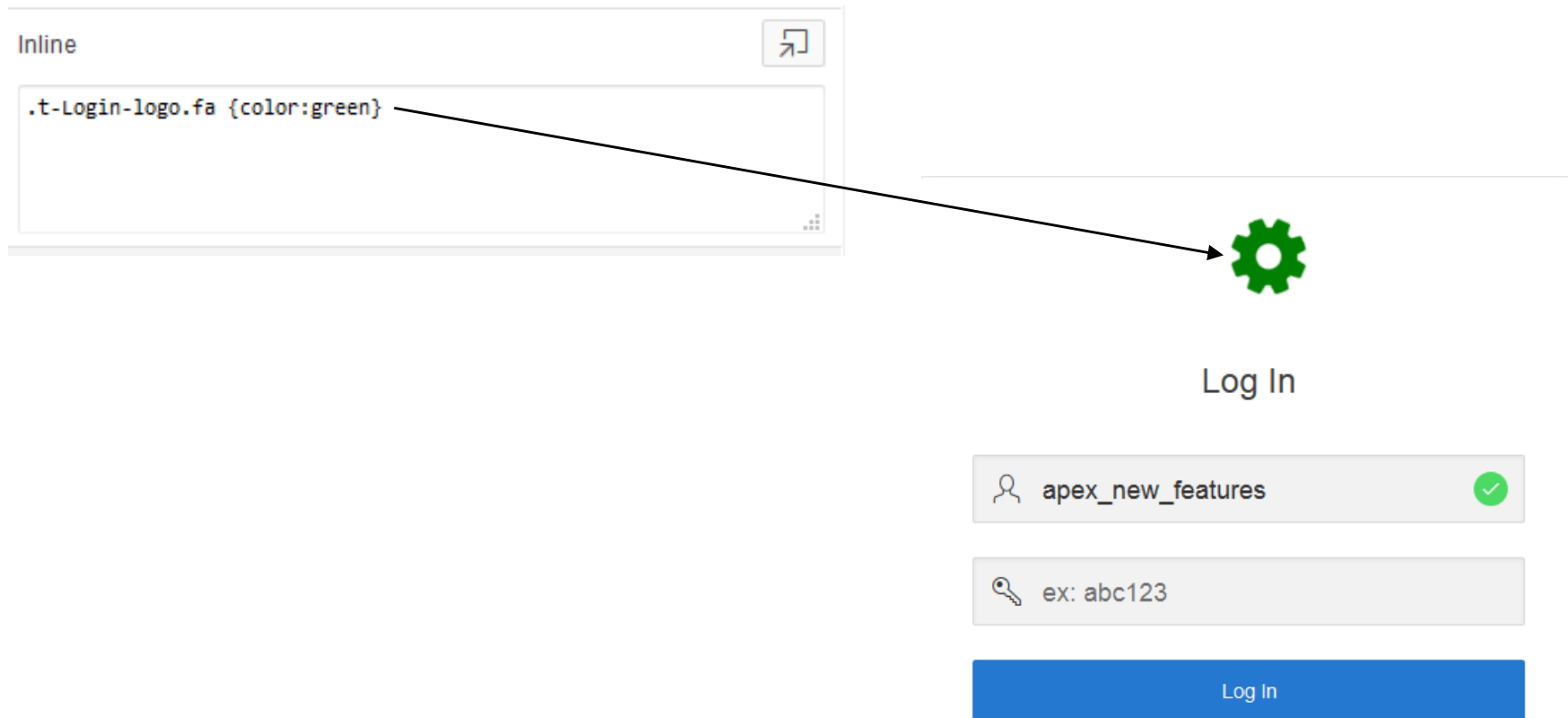
Font Awesome

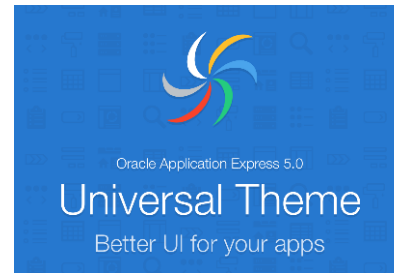
- Font Awesome can be modified using CSS:

```
.fa-gear::before, .fa-cog::before {
  content: "□";
}
.t-Login-logo.fa {
  color: green;
}
.t-Login-logo.fa {
  color: #2578cf;
}
.t-Login-logo.fa {
  font-size: 62px;
  line-height: 124px;
  text-align: center;
}
.t-Login-logo {
  border-radius: 8px;
  display: block;
  height: 54px;
  margin: 0 auto;
  width: 64px;
}
.fa-spin {
  animation: 5s linear 0s normal none infinite running fa-spin;
}
```

Font Awesome

- We can use it everywhere and modify it as we like:





Template Options

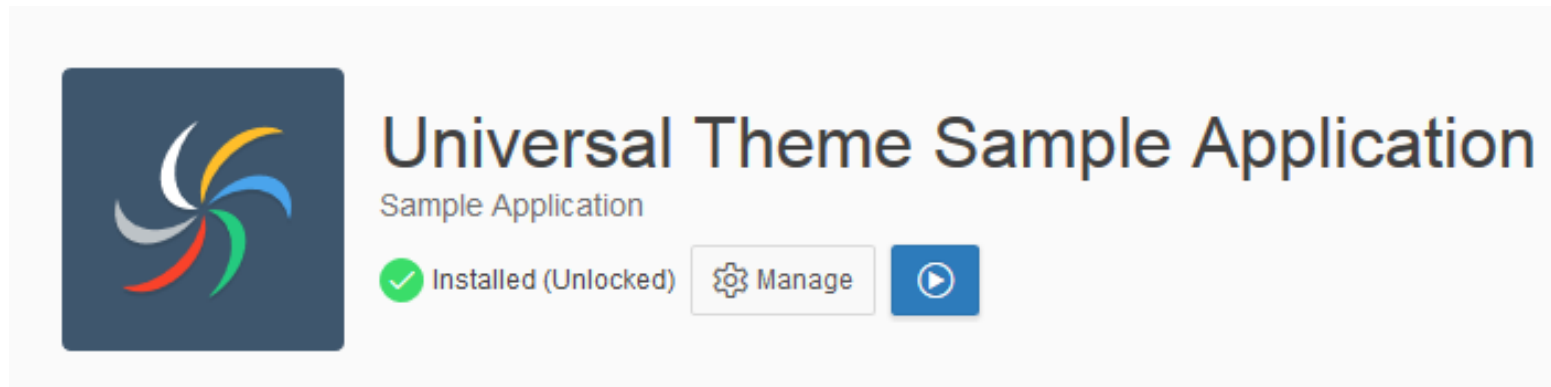
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Template Options

- Using Template Options we can easily change the layout of our pages.
- Template Options are one of the standard properties for the regions and items.
- Instead of having many templates, we have many options. We can change those options by checking and unchecking them :
 - One template and
 - More flexibility
- Customizing is more declarative,
- There are many options and
- Template Options are inherited.

Template Options

- Universal Theme Packaged Application will give you a good idea on what can be achieved using Template Options:



Template Options

- Changing Template Options for a List...

The screenshot displays a web application interface. At the top, a blue header bar contains the text "Universal Theme Hands On Start" on the left and "APEX_NEW_FEATURES 2" on the right. A left-hand navigation menu is visible, with "Template Options" selected. The main content area shows a "Page List" with four entries, each featuring an icon, a title, and a description. A "Template Options" dialog box is open in the foreground, showing settings for the list. The dialog has a title bar with a close button (X) and is divided into sections. The "General" section contains four checkboxes: "Use Template Defaults" (checked), "Show Icons" (checked), "Show Description" (checked), and "Show Badges" (unchecked). The "Layout" section shows a dropdown menu currently set to "2 Column Grid". At the bottom right of the dialog are "Cancel" and "OK" buttons.

Universal Theme Hands On Start APEX_NEW_FEATURES 2

UT Grid Layout For...
UT Grid Layout Re...
FA Icons
Template Options
Template Options I

Page List

Entry 1
Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips

Entry 2
Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips

Entry 3
Lorem ipsum dolor sit amet, consete
vero eos et accusam et justo duo do

Entry 4
Lorem ipsum dolor sit amet, consete
vero eos et accusam et justo duo do

Template Options

General

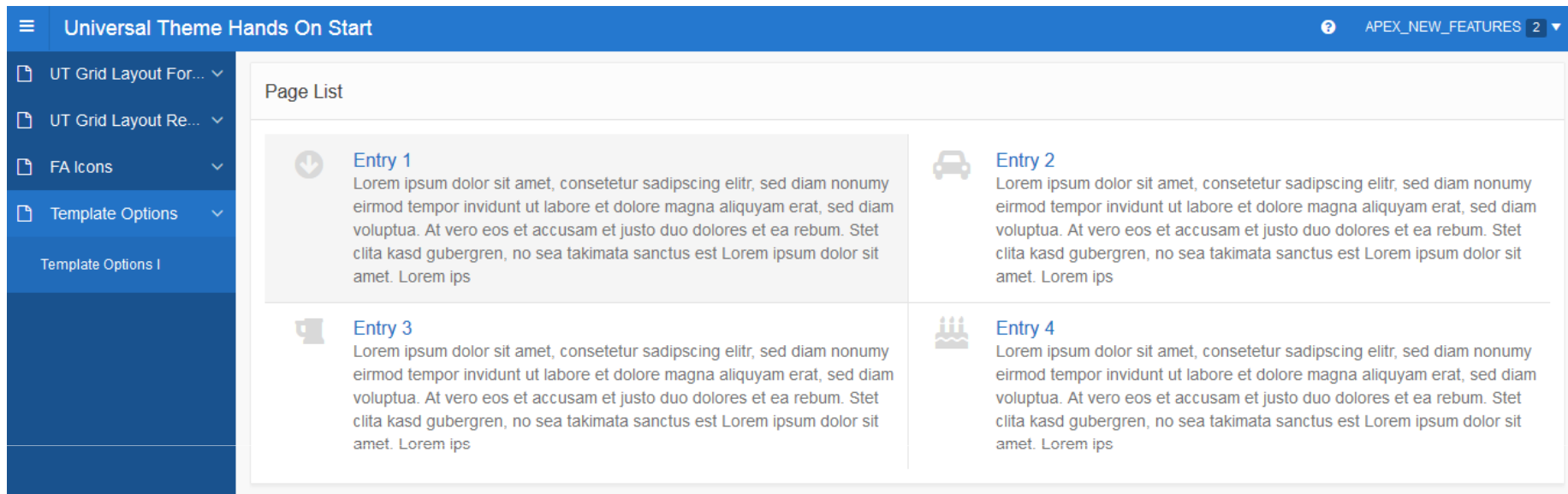
- Use Template Defaults
- Show Icons
- Show Description
- Show Badges

Layout 2 Column Grid





Cancel OK

Template Options

- ...will display the list differently:

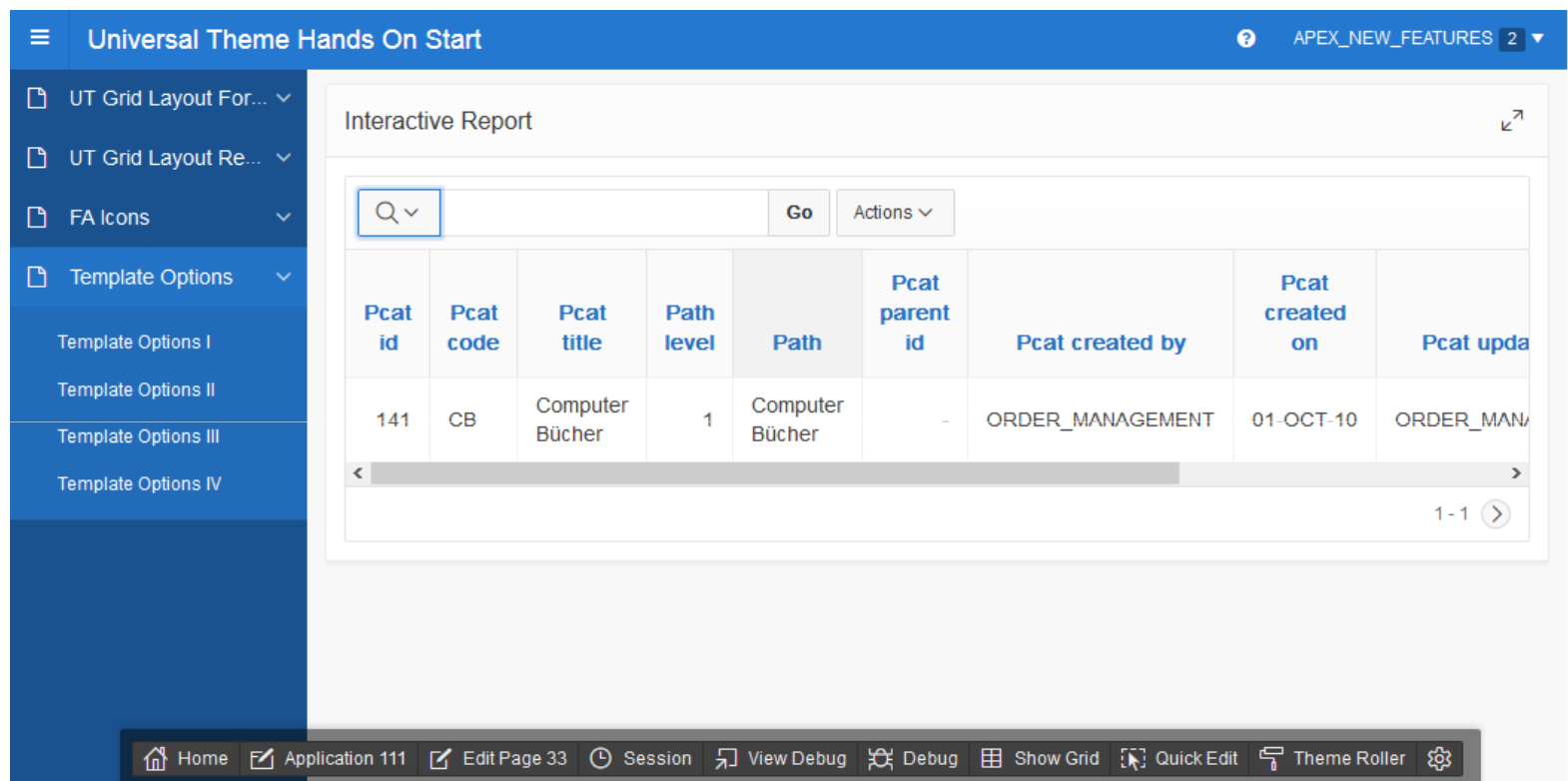


The screenshot displays a web application interface with a blue header and a dark blue sidebar. The header contains the text "Universal Theme Hands On Start" and "APEX_NEW_FEATURES 2". The sidebar lists several menu items, with "Template Options" selected. The main content area is titled "Page List" and contains four entries arranged in a 2x2 grid. Each entry has a unique icon and a title followed by a paragraph of Lorem Ipsum text.

Icon	Entry Title	Description
	Entry 1	Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips
	Entry 2	Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips
	Entry 3	Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips
	Entry 4	Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ips

Template Options

- Template Options and Universal Theme can also be used for Interactive Reports and help displaying those properly:



The screenshot displays an Oracle APEX application interface. The top navigation bar is blue and contains the text "Universal Theme Hands On Start" on the left and "APEX_NEW_FEATURES 2" on the right. A left-hand navigation menu is visible, listing several options: "UT Grid Layout For...", "UT Grid Layout Re...", "FA Icons", "Template Options", "Template Options I", "Template Options II", "Template Options III", and "Template Options IV". The "Template Options" menu item is currently selected and highlighted in a darker blue.

The main content area is titled "Interactive Report" and features a search bar with a magnifying glass icon and a "Go" button. To the right of the search bar is an "Actions" dropdown menu. Below the search bar is a table with the following data:

Pcat id	Pcat code	Pcat title	Path level	Path	Pcat parent id	Pcat created by	Pcat created on	Pcat update
141	CB	Computer Bücher	1	Computer Bücher	-	ORDER_MANAGEMENT	01-OCT-10	ORDER_MAN...

At the bottom of the application, there is a utility bar with icons and labels for "Home", "Application 111", "Edit Page 33", "Session", "View Debug", "Debug", "Show Grid", "Quick Edit", "Theme Roller", and a settings gear icon.

Template Options

- Template Options:

Template Options

▼ Common

General Use Template Defaults
 Remove Body Padding
 Show Maximize Button

Body Height Auto - Default

Header Visible - Default

Accent Default

Style Default

▼ Advanced

Body Overflow Scroll - Default

Item Padding Default

Item Size Default

Item Width Default

Cancel OK

Template Options

- Expanding a report to the whole page and auto scrolling:

Interactive Report

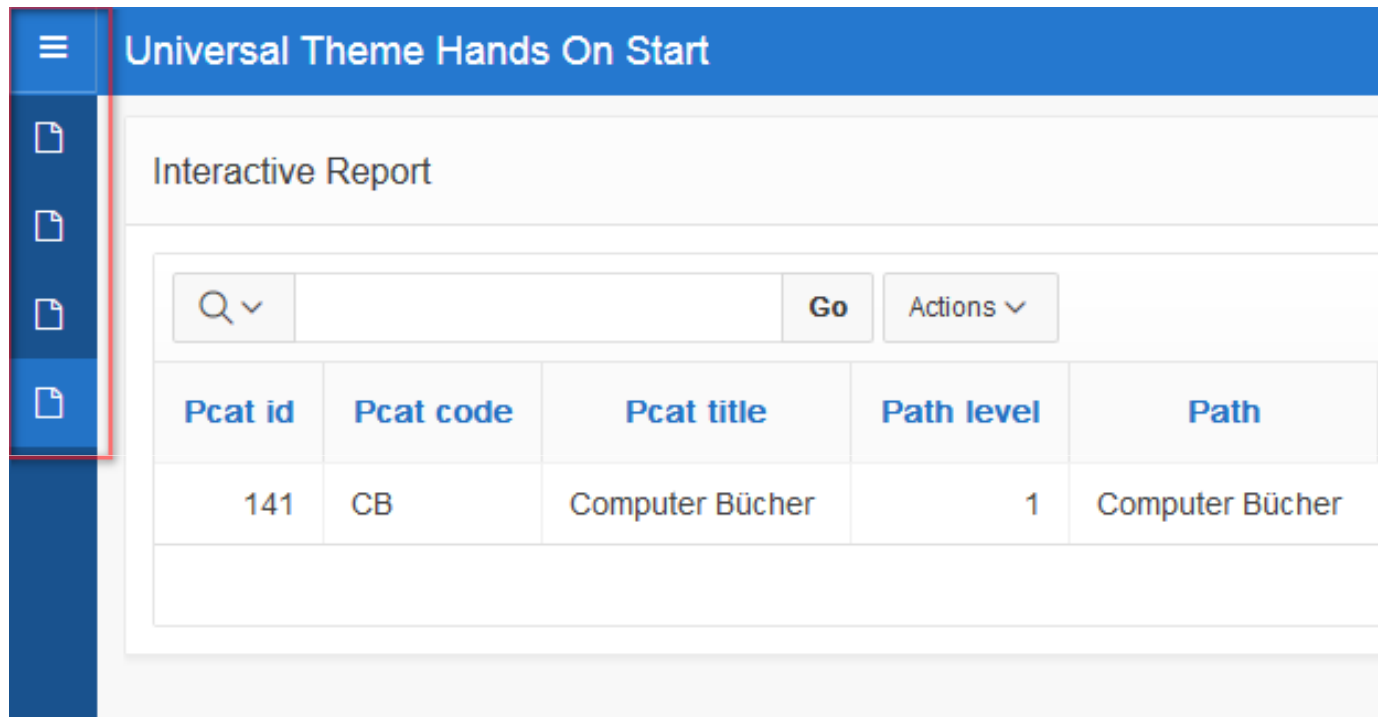
Search: Go Actions ▾

Pcat id	Pcat code	Pcat title	Path level	Path	Pcat parent id	Pcat created by	Pcat created on	Pcat updated by	Pcat updated on	Pcat updated desc
141	CB	Computer Bücher	1	Computer Bücher	-	ORDER_MANAGEMENT	01-OCT-10	ORDER_MANAGEMENT	01-OCT-10	-

1-1 >

Template Options

- The settings will be cached and they are there after we reload the page:



The screenshot shows a web application interface with a blue header bar containing the text "Universal Theme Hands On Start". Below the header is a section titled "Interactive Report". A search bar with a magnifying glass icon and a "Go" button is present, along with an "Actions" dropdown menu. A table with the following columns is displayed: "Pcat id", "Pcat code", "Pcat title", "Path level", and "Path". The table contains one row of data: "141", "CB", "Computer Bücher", "1", and "Computer Bücher". A vertical sidebar on the left contains a menu icon and four document icons, with the bottom icon highlighted in blue.

Pcat id	Pcat code	Pcat title	Path level	Path
141	CB	Computer Bücher	1	Computer Bücher

Template Options

- A good Demonstration of the Universal Theme in Packaged Applications:

The screenshot displays the 'APEX 5.0 Universal Theme' interface. At the top, a blue header contains the text 'APEX 5.0 Universal Theme'. Below this is a dark blue navigation bar with tabs for 'Pages', 'Regions', 'Lists', 'Reports', 'Buttons', 'Forms', and 'Calendars'. The 'Pages' tab is active. Underneath, a light blue sub-navigation bar shows options: 'Pages', 'Standard', 'Left Side Column', 'Right Side Column', 'Left and Right Side Columns', 'Master Detail', 'Dialog Pages', and 'Other Pages'. The 'Pages' sub-tab is selected. The main content area features a large heading 'Pages' and a paragraph: 'Define the layout and purpose of your pages with page templates. This page shows samples of all the available page templates. For pages with navigation, you can see those elements positioned on the top or side of the screen.' Below this is a horizontal line, followed by a heading 'Standard Page' and another paragraph: 'The default page template. Ideal for home pages, dashboards, large reports, and other layouts where maximum screen real-estate is desired.' At the bottom, a dark grey footer bar contains various utility icons and labels: Home, Application 114, Edit Page 1100, Session, View Debug, Debug, Show Grid, Quick Edit, Theme Roller, and a settings icon.

Template Options

- Universal Theme – Packaged Applications:
 - Region Options
 - List Options (Object Options)
 - Maximize / Minimize
 - Standard Region
 - Alert Region
 - Carousel Region Options – New in APEX 5

Template Options

▼ Common

General

- Use Template Defaults
- Remove Body Padding
- Remember Carousel Slide
- Show Next and Previous Buttons
- Show Maximize Button

Animation: Fade

Timer: No Timer

Body Height: Auto - Default

Header: Visible - Default

Accent: Default

Style: Default

▼ Advanced

Cancel OK

Template Options

- Template Options settings add an extra degree of configuration (or styling) to just about any template.
- It's an elegant, simple, and yet powerful approach to styling templates with developer-defined options.
- All variations from the default view were achieved by simply selecting the option.
- Template Options can be extended and we can define our own.
- We can use this feature also for the older applications / themes.

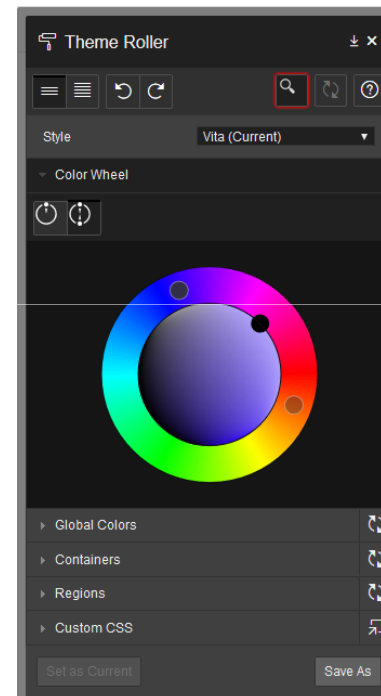


Theme Roller

Denes Kubicek

Theme Roller

- Another amazing new feature of APEX 5 is the Theme Roller. The Theme Roller is a tool that allows developers to customize many aspects of certain application components.
- It allows developers to pick styles and colors and see their effect on the application via an interactive tool.
- We can invoke it via the Developer Toolbar.



Theme Roller

- Theme Roller Demo IE / Chrome:



Theme Roller

- Demo P-Track – Changing the Theme within application:

```
SELECT  s.NAME d, s.theme_style_id r
        FROM apex_application_theme_styles s, apex_application_themes t
        WHERE s.application_id = t.application_id
              AND s.theme_number = t.theme_number
              AND s.application_id = :app_id
              AND t.ui_type_name = 'DESKTOP'
              AND t.is_current = 'Yes'
        ORDER BY 1
```

```
BEGIN
  apex_util.set_current_theme_style
              (p_theme_number      => c1.theme_number,
               p_theme_style_id    => :p148_desktop_theme_style_id
              );
END;
```


Theme Roller

- Demo P-Track – How does that work?:

The screenshot displays the 'P-Track' application's 'Theme Roller' interface. The left sidebar contains a navigation menu with items such as Home, Projects (3), Milestones (4), Action Items (3), Attachments (0), Updates (2), Status Reports (0), Owners, Administration, App Activity, and Configuration. The 'Theme Style' option is selected in the Configuration section. The main content area is titled 'Administration / Application Theme Style' and contains the instruction: 'Select the look and feel of the application you would like to use for all users of this application.' Below this instruction, there is a dropdown menu for 'Desktop Theme Style' currently set to 'Vita - Slate'. A green notification banner at the top right states 'Theme Style Set for All Users.' with 'Cancel' and 'Apply Changes' buttons. The bottom status bar shows various application controls like Home, Application 112, Edit Page 148, Session, View Debug, Debug, Show Grid, Quick Edit, and Theme Roller.

Theme Roller

- All the other changes, we can't directly change using Theme Roller, can be added to the custom css section:

The screenshot shows a web application with a dark sidebar on the left and a main content area titled "Attachments by Date". The sidebar contains navigation links: Home, Projects (3), Milestones (4), Action Items (3), Attachments (0), View as Cards, Dashboard, Categories, and Interactive Report. The main content area has a search bar and a list of attachments, currently showing "4.2.30 Set Screen Reader Mode On". A Theme Roller tool is overlaid at the bottom, showing the "Style" pane for the selected element. The HTML structure is visible on the left, and the CSS rules are shown on the right. The CSS rules include:

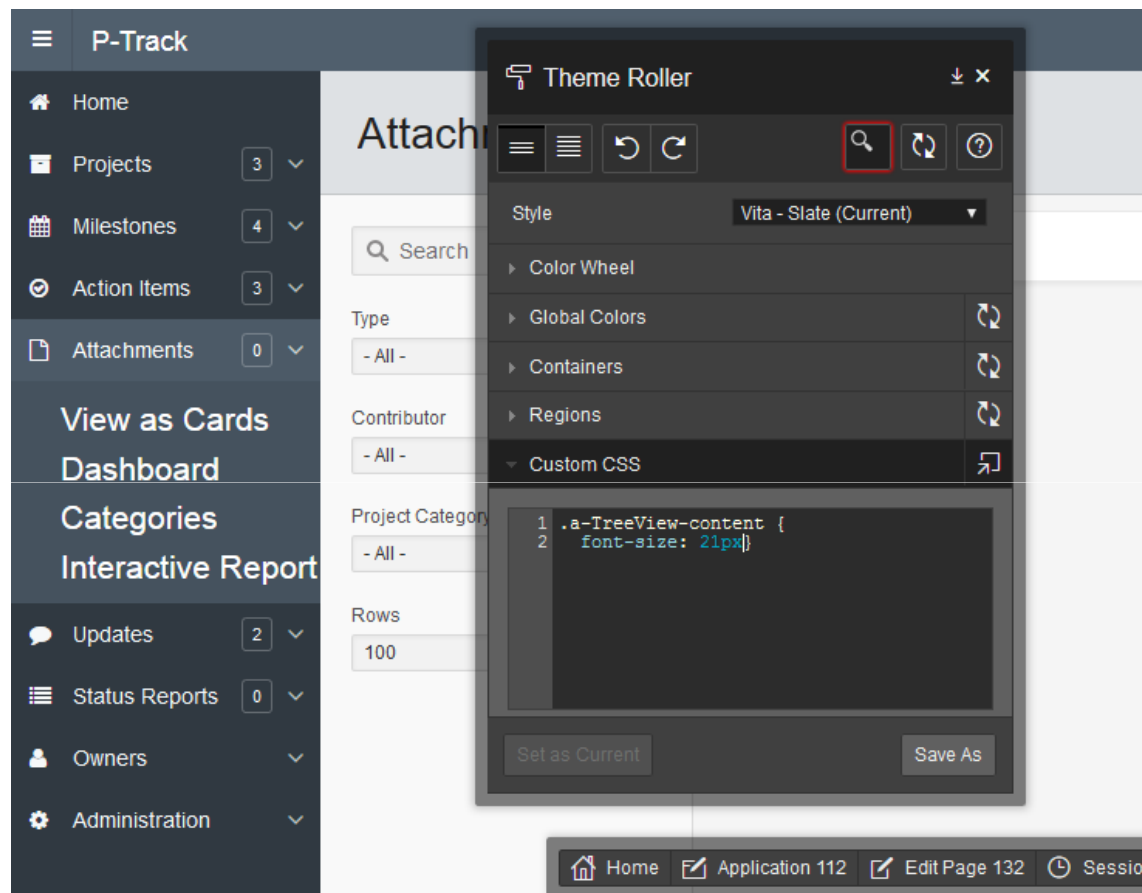
```
.t-TreeNav .a-TreeView-node--topLevel .a-TreeView-content, .t-TreeNav .a-TreeView-node--topLevel .a-Icon, .t-TreeNav .a-TreeView-node--topLevel .a-TreeView-content .fa {
  color: #f6f8f9;
}

.t-TreeNav .a-TreeView-node--topLevel > .a-TreeView-content {
  line-height: 40px;
  overflow: hidden;
  padding: 0;
  text-overflow: ellipsis;
  white-space: nowrap;
}

.a-TreeView-content {
  -moz-user-select: none;
  display: block;
  font-size: 12px;
  line-height: 16px;
  padding: 4px;
}
```

Theme Roller

- We can immediately view the changes and save those in a separate file:



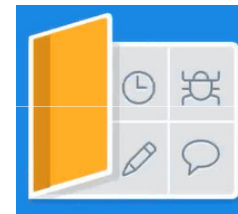
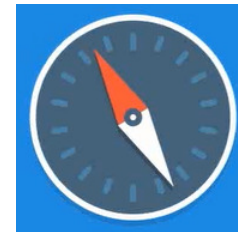
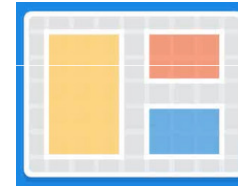
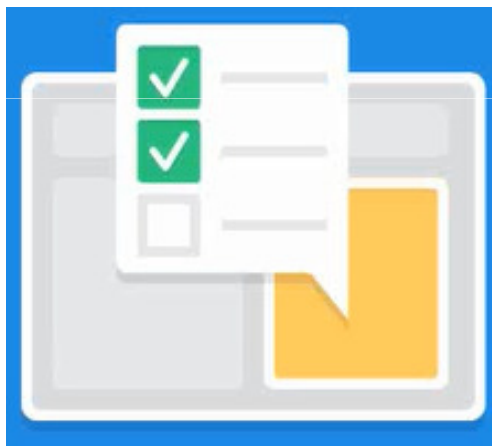


Universal Theme Wrap Up

Denes Kubicek

Wrap Up

- 5 Key Features:
 - Grid Layout
 - Template Options
 - Navigation
 - Font Awesome
 - Theme Roller



Wrap Up

- Theme is Responsive:

The screenshot displays the P-Track application interface on a desktop browser. The browser's address bar shows the URL `192.168.13.134:8084/ords/f?p=112:200:126`. The application header includes the title "P-Track", a "Mobile" button, a "Help" icon, and a user profile for "apex_new_features".

The main content area is titled "Projects / Demo Project 1". It features a navigation bar with "Microsite", "Follow", and "Edit Project" buttons. Below this is a table of project details:

Key	AAAB
Owner(s)	sam.ple
Category	Default
Status	Hot
Goal	Demonstrate the behavior of P-Track
History	created 6 hours ago by apex_new_features last updated 6 hours ago by apex_new_features
Last Updated	apex_new_features 6 hours ago

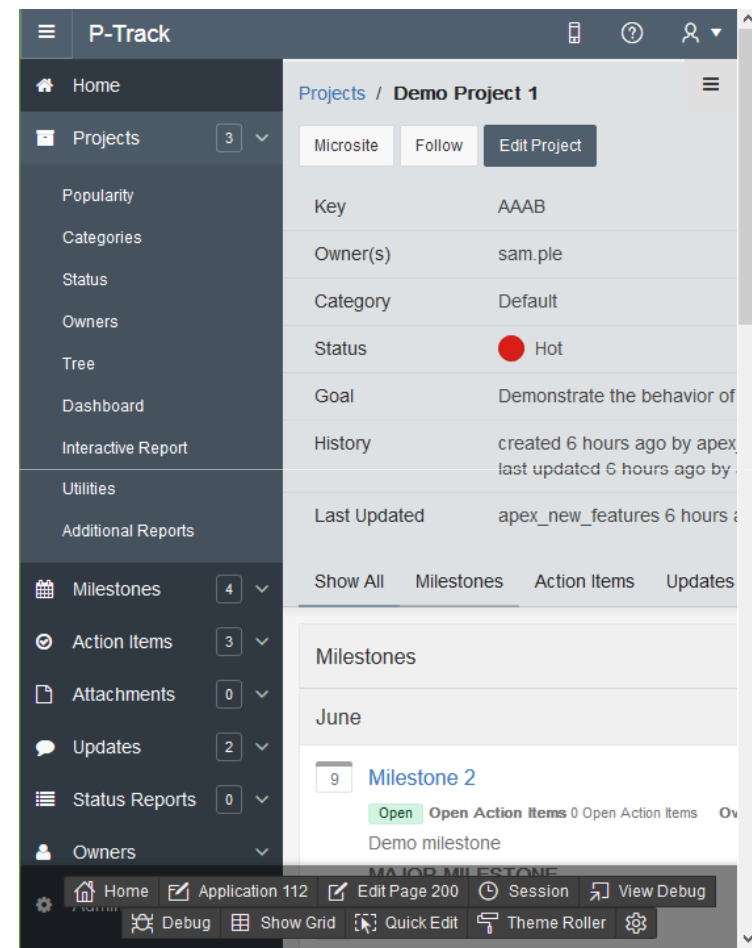
Below the table, there are tabs for "Show All", "Milestones", "Action Items", "Updates", and "Child Projects". The "Milestones" tab is active, showing a "June 2015" view with a "Gaant" button and a "+" icon.

On the right side, there is a sidebar with various actions: "Perma Link", "Email", "Merge", "Add Milestone", "Add Action Item", "Add Link", "Attach File", "Add Update", and "Add Status Report". Below these actions, there is a "Validations" section with an "Unvalidated" status and a "Validate" button. At the bottom of the sidebar, there is a "Content Completeness" section with a "Moderate" button.

The footer of the application contains a navigation bar with icons for "Home", "Application 112", "Edit Page 200", "Session", "View Debug", "Debug", and "Show Grid". Below this, there are buttons for "Open", "Open Action Items", "Quick Edit", and "Theme Roller".

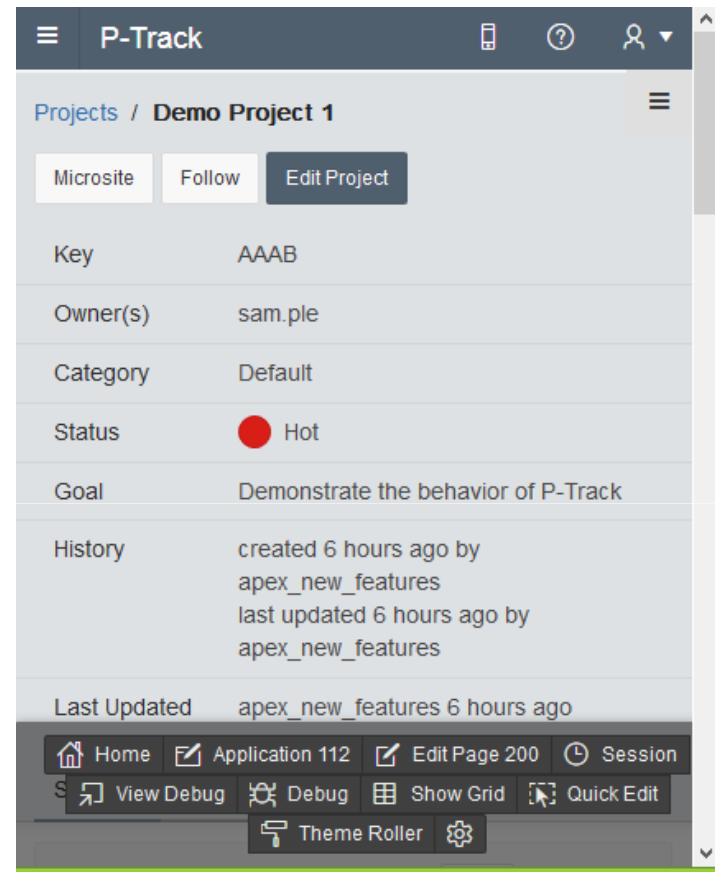
Wrap Up

- It is smart and notices the change of the window (device):



Wrap Up

- The smaller the screen the more focus on the content:



Questions?