API Portal

Customization Guide

Innovation Release

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This document applies to API Portal 10.0 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Introduction

webMethods API Portal helps enterprises get their APIs. API Portal provides a lightweight consumer oriented user interface primarily designed to allow a provider to publish the APIs they want to expose to a consumer. At a higher level, it is a Web-based developer portal through which:

- Developers can discover APIs
- Developres can test the APIs
- Developers can get commercial and technical usage information about the APIs
- Developers can sign up, register for APIs and request API Keys
- API providers can advertise their APIs
- API provider and consumer can collaborate
- API providers can manage tenants

webMethods API Portal is highly customizable. The portal can be completely rebranded to your company's look and feel. You can change the predefined rendering of templates that affect the layout, fonts, styles, and images, you can add your own content blocks and style sheets, include java widgets, and so on. You can even rearrange the navigation or include additional links.

This guide describes detailed procedures for customizing API Portal by using a demo company called **SAGTours**. You can use these steps as pointers to customize the portal to meet your company's requirement.

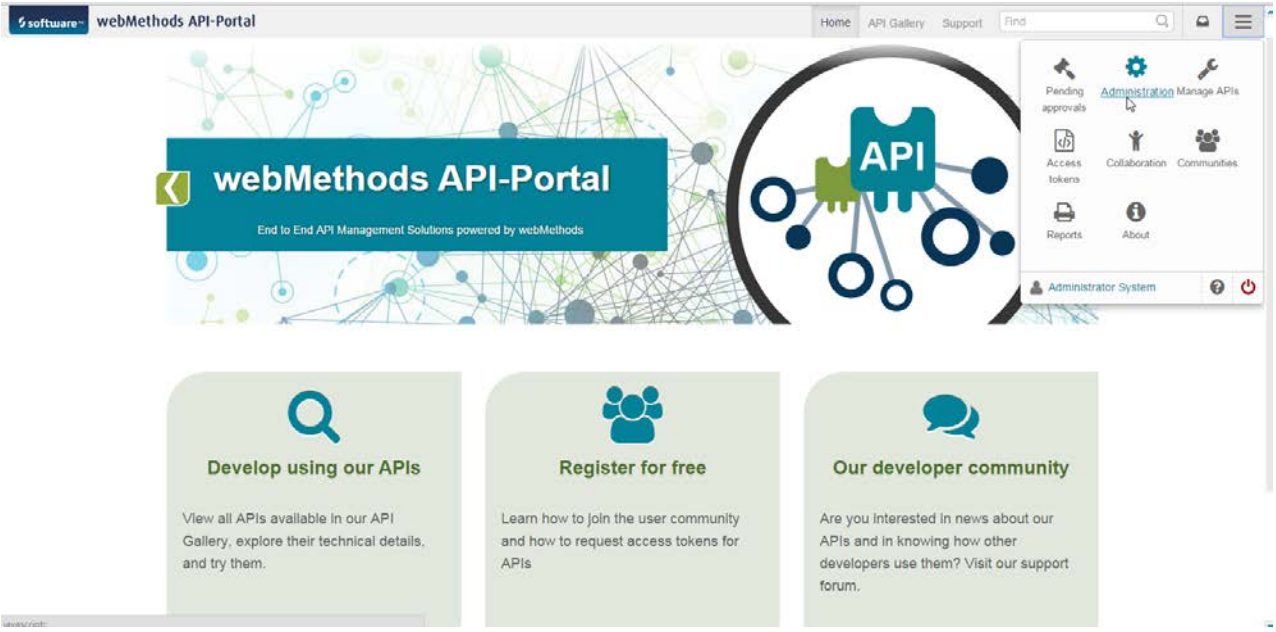
1.1 Story about SAG Tours – A Fictitious Company

The company **SAGTours** is a travel company offering the booking of sea cruises. It primarily operates through its retail agency business and an e-commerce shop. It is now driving an open API initiative along its traditional sales channels as it has recognized the opportunity that APIs allow to generate additional revenue. The expectation of **SAGTours** is that third parties create innovative new travel applications and mobile applications where the content from **SAGTours** provided through APIs is used. Through SAGTours APIs they want to allow the third parties to access booking capabilities that **SAGTours** uses in its current channels. To support their API initiative they host an API developer portal that exposes their APIs. The next few sections describe different steps used for customizing API Portal to meet the requirements of **SAGTours**. You can use these steps as pointers to customize the portal to meet your company's requirement.

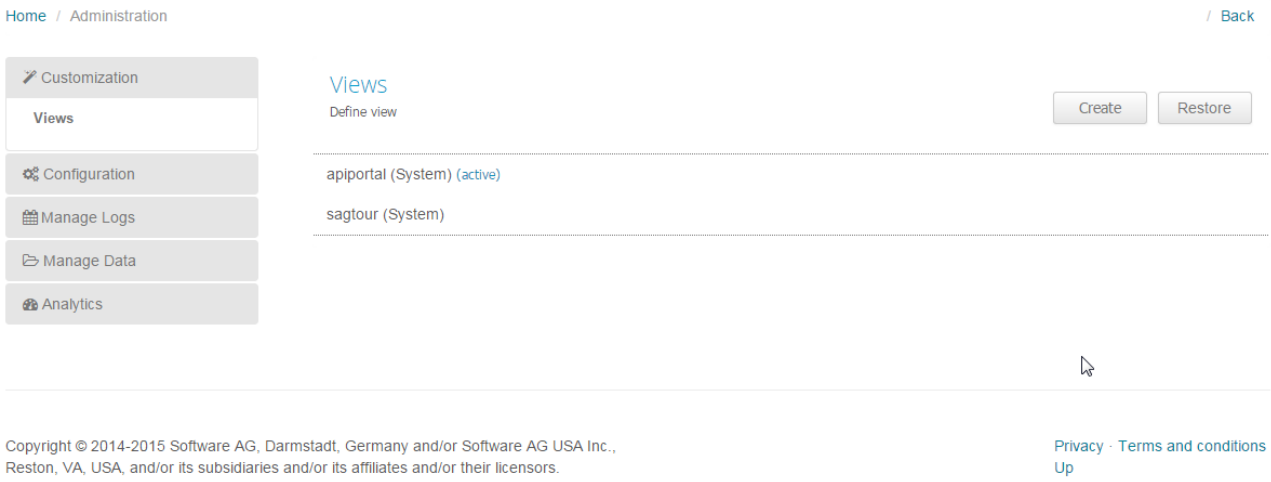
Note: In order to demonstrate the various customization and content representation capabilities of API Portal, the product by default ships a view called **sagtours** that contains customized pages for **SAGTours** company. Hence in this guide, we try to create a view called **mysagtours** from the default **apiportal** view that looks similar to **sagtours**.

2 Customizing the Portal

API Portal is fully customizable. You should have API Administrator role privilege to customize API Portal.



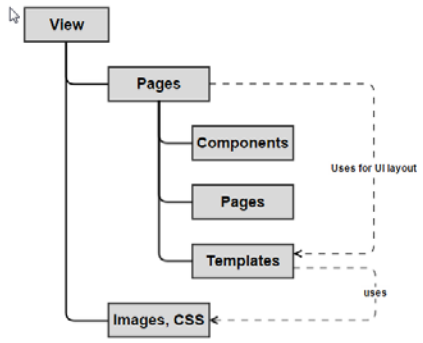
The API Portal user interface rendering behavior is defined using Views. The list of views can be found in the Administration page. API Portal comes with two views - **apiportal** and **sagtours**. By default, **apiportal** view is active and the user can select the **sagtours** view by clicking and activating it.



3 API Portal UI Framework

Before customizing the **mysagtours** view, it is important to have some basic understanding of how the API Portal UI framework and the UI elements are organized.

A view (for example, mysagtours) contains a set of pages, templates, components, and other supporting resources. You have to make changes to these files within the view to alter the UI rendering of API Portal. A page is the logical container of all the elements in a UI page. The page with the help of templates defines the layout of the elements in a UI. A page in turn can contain inner pages and components. The components are operational elements in the UI, for example, UI widgets, buttons, and so on.



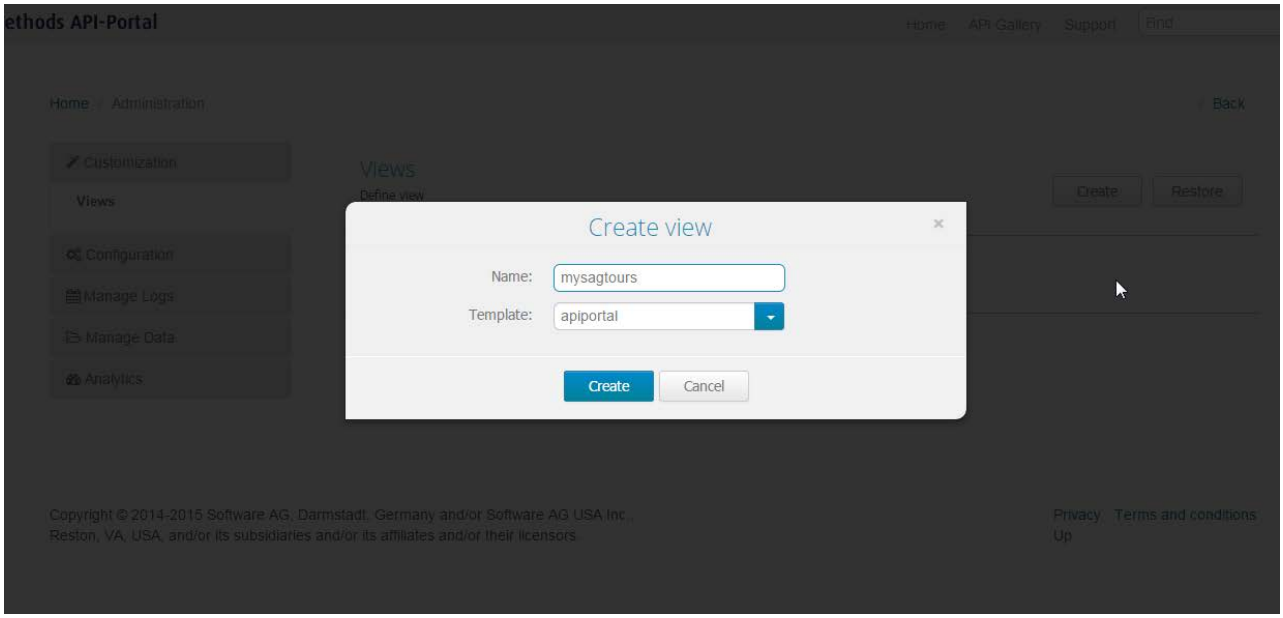
Expert tip:
Though the basic UI development knowledge (HTML, CSS, JavaScript) is sufficient in most of the places, some areas might require you to have a knowledge on API Portal UI framework (Copernicus).

3.1 Create a View

The Administrator can create a personal view by clicking **Create** in the **Views** page. While creating the view, the Administrator should base it on the **apiportal** template. By basing it on **apiportal** template, the Administrator has a fully functional view and can start modifying the new view based on current requirements. For **mysagtours**, you have to base it on the **apiportal** view.

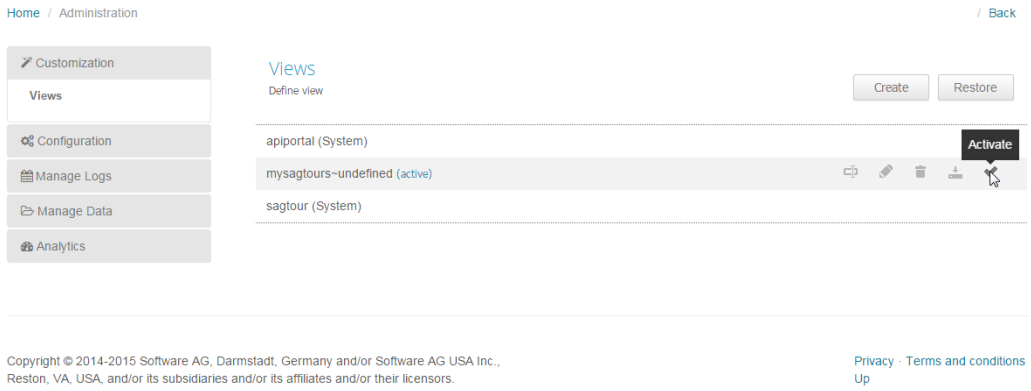
To create a view:

1. Log on to API Portal user interface.
2. In the main menu options, click **Administration**.
3. In the Administration page, click **Create**.
4. In the **Create View** dialog, provide the view name and select the template from the drop-down list.
5. Click **Create** to create a new view with the specified name.



3.2 Activate the View

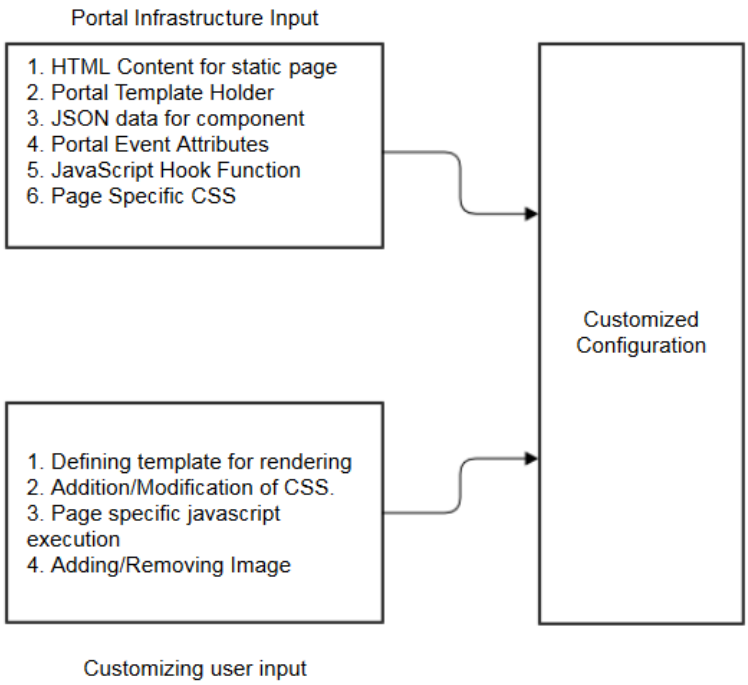
Before proceeding to customization, the Administrator has to *activate* the new view.



4 Customization Infrastructure Using HandleBars JS

In API Portal 9.12, a new infrastructure for customization has been introduced. The new solution requires less time as well as makes the customization process easier.

Important: This customization infrastructure can be used only for customizing the API package gallery and package details page. All the other pages continue to use the old infrastructure for customization.



Components:

1. HTML content

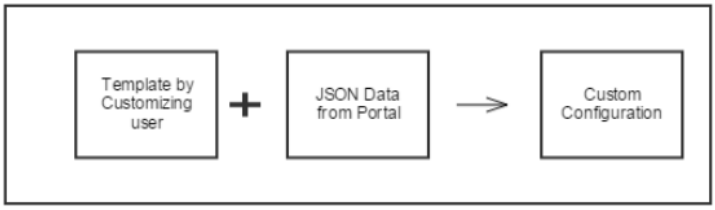
This contains the static HTML content of the page.

2. Portal template holder

This is the container that holds the HTML content and template of the page. This container is usually the *div* HTML element.

3. JSON data

This is the data in JSON format. This data is applied on top of the HTML content that is being customized. The HTML content contains placeholders for the data.



4. Portal event attributes

These attributes are system defined event bound attributes. Each event attribute has its own behavior. The user can define any actions to be performed on an element, based on this attribute.

5. JavaScript hook function

On page load, a JavaScript function *onPackageViewLoad()* is invoked. If there are any actions that have to be performed on page load, they can be specified as part of this function.

6. Page specific styles

All the CSS specific to a page is present as part of the HTML. During customization, the CSS can be modified.

Defining Template

The template has to be created in HTML Page. It should be in compliance for processing by Handlebars JS (For details, see http://handlebarsjs.com/). A sample HTML template is as shown:

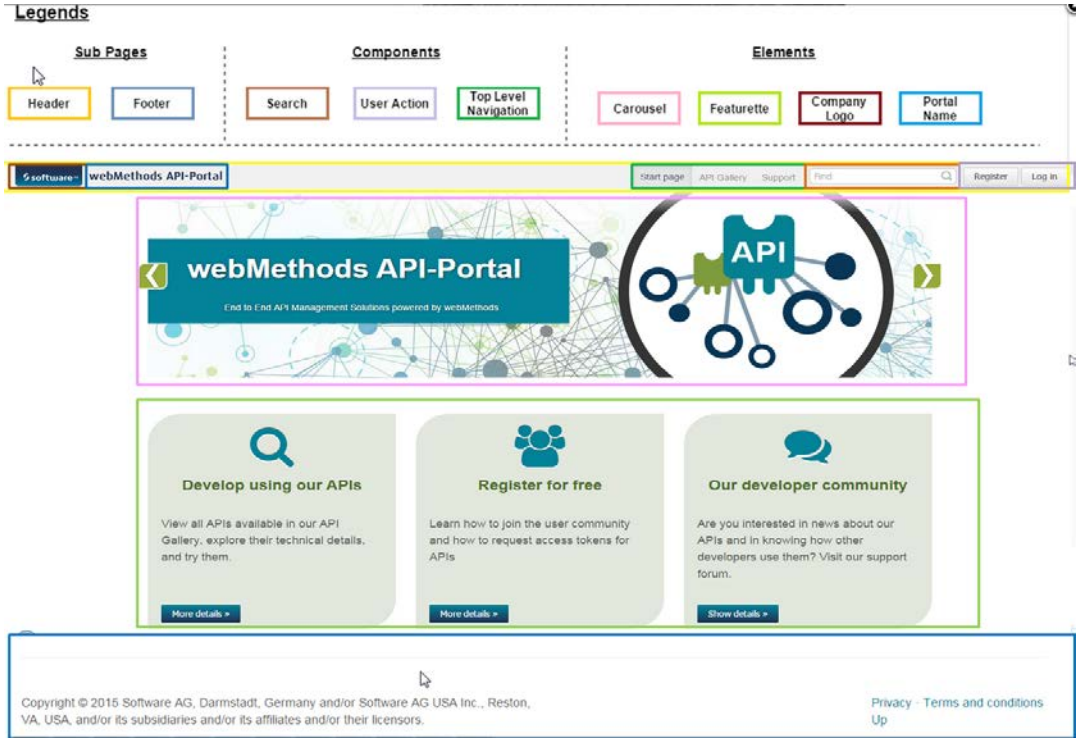
```
{{#packages}}
<div class="content package-row" data-portal-package-identifier="{{identifier}}">
    <div  class="package-cell" style="min-width:32px;width: 5%" >  <img
src="{{icon}}" height="32px" width="32px"> </div>
    <div  class="package-cell" style="width: 10%"> {{name}}  </div>
    <div  class="package-cell" style="width: 40%">{{description}}</div>
    <div  class="package-cell" style="width: 15%;text-align:center">
{{apis.length}}  </div>
    <div  class="package-cell" style="width: 15%;text-align:center">
{{plans.length}}  </div>
</div>
{{/packages}}
```

5 Customize the Pages

This section describes the steps required for customizing the pages in **mysagtours** view.

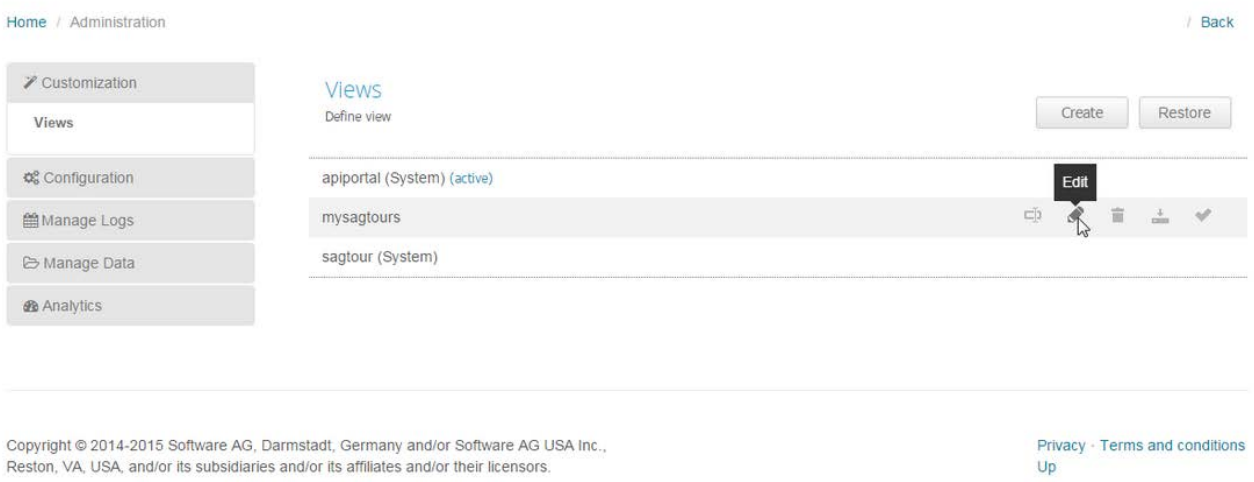
5.1 Customize the Home Page

You can customize the API Portal landing page for **mysagtours** view. Before starting with the customization, let us take a look at the anatomy of the landing page and the different elements (pages, templates, components, css, images, and so on) that constitute the landing page.



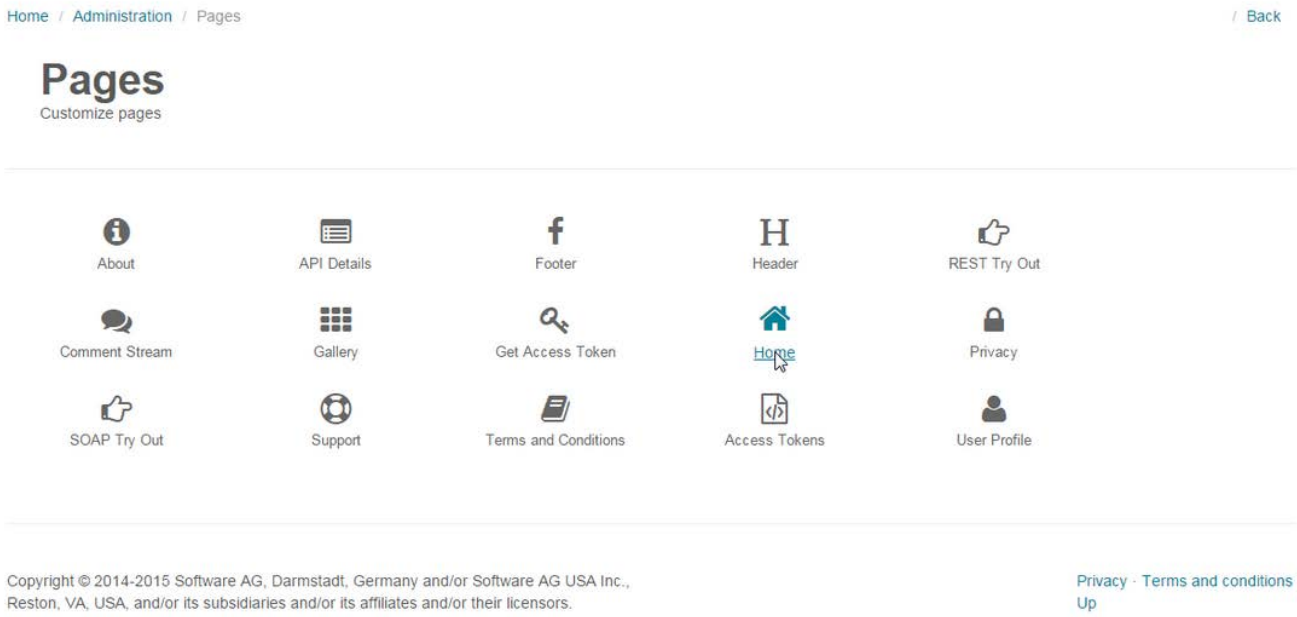
At a high level, the landing page consists of 3 sections - Header, Body, and Footer. The elements in each of these sections are fully customizable. In order to customize API Portal, you have to edit the **mysagtours** view as shown below.

In the **Administration > Views** page, click **Edit** to navigate to the Customization page.
A list of pages available for editing is displayed in the Customization page.



5.1.1 Customizing the API Header

For customizing the API Header, select the **Home** page.



Here, you can modify the header color, the alignment of the Company logo, and colors of the items in top level navigation. For customizing the API Header, upload the images for Company Logo and Product Name in the Basic Configuration of Home Page. (The images are displayed in white background).

Note: After uploading the company logo, ensure that the height and width of the image are as specified as part of the CSS class *api-header-logo.*

In order to make the required changes to the Header, you have to make these new CSS classes available to API Portal. Once this is done, these classes can be referred in the templates. Add the following CSS classes to the CSS section of the Header page.

Element	Modified Style required mysagtours

api-header-logo	**Type** - CSS
	Corresponds to - Styling for Company Logo
	Changes Required - Alignment
	`.sagtours-logo.c {`
	`height: 16px;`
	`margin: 12px 10px;`
	`}`
	`#productname {`
	
	`height: 17px;`
	`width: 170px;`
	`}`

navbar-inner	**Type** - CSS
	Corresponds to - Styling for Header
	Changes Required - Color and Size
	`#api-header-container .navbar-inner {`
	`background: #336699 !important;`
	`height: 40px;`
	`}`

current-user-id	**Type** - container
	Corresponds to - User Action Element
	Changes Required - Font Color
	`#current-user-id {`
	`color: #fff !important;`
	`}`

Element	Modified Style required mysagtours

.navigationBar li.navigationItem > a	**Type** - CSS
	Corresponds to - Styling for Top Level Navigation
	Changes Required - Font and Color changes
	`#masthead-topLevelnavigation .navigationBar li.navigationItem > a {`
	`color: #FFFFFF;`
	`font-family: Consolas;`
	`height: 18px;`
	`text-shadow: 0 1px 0 #ffffff;`
	`line-height: 14px !!important;`
	`}`
	`#notification-container{`
	`color: #FFFFFF;`
	`}`
	`.menu-icon-container{`
	`background-color: transparent;`
	`color: white;`
	`}`
	`#notification-icon:hover, .menu-icon-container:hover,`
	`#notification-icon:active, .menu-icon-container:active,`
	`#notification-icon:focus, .menu-icon-container:focus {`
	`background-color: #336688 !important;`
	`}`

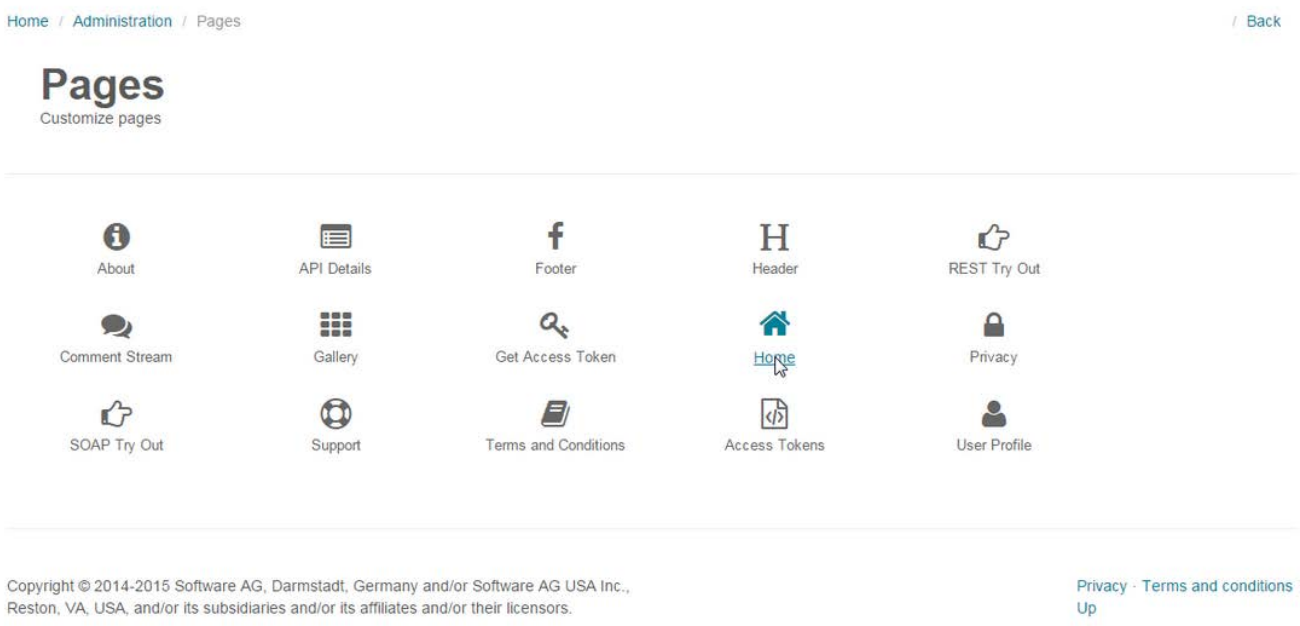
Now these CSS classes can be referred in the HTML templates. In the HTML template of Header page only change that has to be incorporated is to use the **sagtours-logo api-header-logo** instead of **api-header-logo** class for the Company logo element.

Expert tip:

Note that the container or styles corresponding to each of the elements in the UI can be found using **Inspect Element** feature. This is part of debugging capabilities of the browsers.

5.1.2 Customizing the Home Page

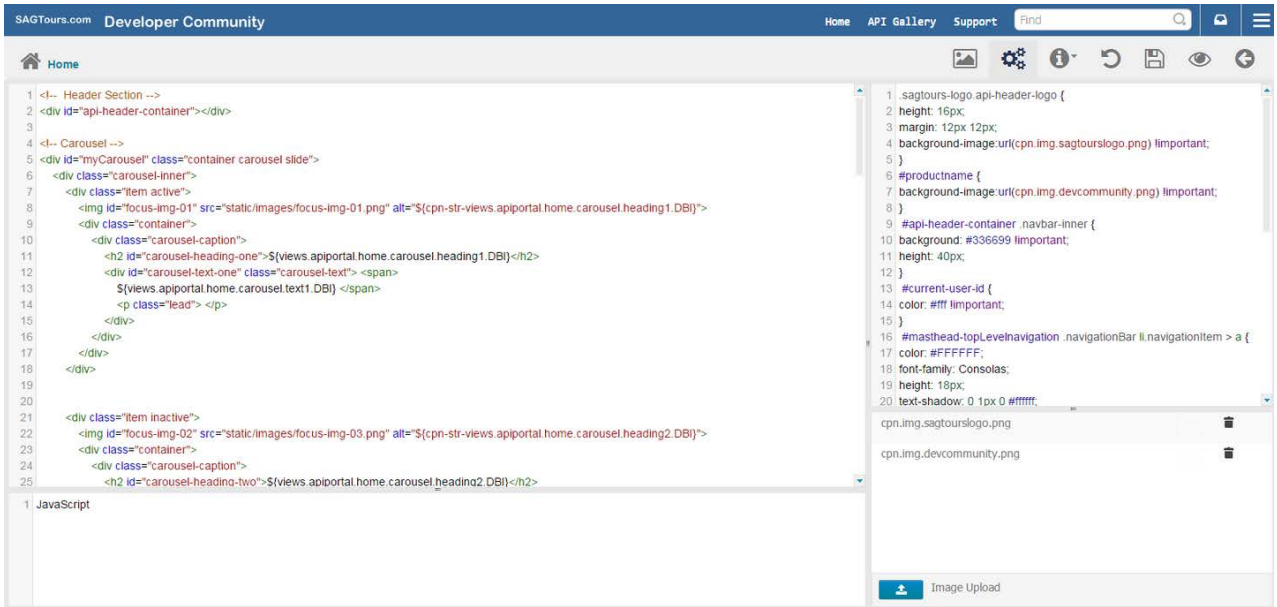
Select the **Home** page for editing.



Basic and Advanced Configurations

The **Home** page can be customized using either the Basic Configuration or Advanced Configuration depending on one's requirement. Here (in mysagtours), we use the combination of both. Use the basic configuration to make simple customizations like changing the Company Logo, Product Name, Image Carousel, and displaying or hiding of components. Use the Advanced Configuration to make changes to the templates, inner pages, CSS, Javascript, and to upload images.

Note: The changes made through Basic Configuration are possible through Advanced Configuration too. Basic configuration just provides ease of use.



5.1.3 Customizing the Image Carousel

You can customize the image carousel from the Advanced Configuration section in the **Home** page. Upload the carousel images (Image 1, Image 2, Image 3). Only uploading the image is not sufficient to get the expected rendering for **mysagtours** as the image carousel renders the images by referring it from within the CSS. Hence, to get the expected rendering, you have to modify the CSS and the corresponding HTML template.

Make the HTML template changes as follows:

Element	In apiportal view	Modifications required in mysagtours view

Image Carousel	`<div id="myCarousel" class="container carousel slide">`
	`<div class="carousel-inner">`
	`<div class="item active">`
	`<img id="focus-img-01" src="static/images/focus-img-01.png" alt="webMethods API Portal" data-cpn-template-localization="home-layout_template154_alt0 ">`
	`<div class="container">`
	`<div class="carousel-caption">`
	`<h2 id="carousel-heading-one">`
	`<span data-cpn-template-localization="home-layout_template154_views.apiportal.home.carousel.heading1.DBI">`
	`webMethods API Portal</span></h2>`
	`<div id="carousel-text-one" class="carousel-text">`
		`<div id="myCarousel" class="hero-container carousel slide">`
		`<div class="carousel-inner">`
		`<div class="item active item1">`
		`<div class="container">`
		`<div class="carousel-caption">`
		`<h2 id="carousel-heading-one" style="font-size: 50px">`
		`<span data-cpn-template-localization="home-layout_template150_views.apiportal.home.carousel.heading.DBI">`
		`Welcome to SAGTours Developer Site</span></h2>`
		`<div class="carousel-text">`

Element	In apiportal view	Modifications required in mysagtours view

	  End to End API Management Solutions powered by webMethods
	
	  <img id="focus-img-03" src="static/images/focus-img-03.png" alt="Find APIs" data-cpn-template-localization="home-layout_template154_alt1 ">
	      <h2 id="carousel-heading-two"> Find APIs</h2>
	  <table class="carousel-text"> <tbody>
	  <tr>
	<td class="carousel-text" id="carousel-text-two"> Explore all APIs in our API Gallery
	  </td>
	  <td>
	   Browse API Gallery
		Explore the APIs we offer to support your App development
		
		        <h2 id="carousel-heading-two" style="font-size: 50px"> Welcome to SAGTours Developer Site</h2>
		      Explore the APIs we offer to support your App development

Element	In apiportal view	Modifications required in mysagtours view

	<pre></td>
	</tr>
	
	</tbody></table>
	<p class="lead">
	</p>
	</div>
	<!--<div
	class="carousel-box">
	<h2>webMethods API
	Management</h2>
	<h4>Industrial
	Strenght API solutions powered by
	webMethods</h4>
	</div>-->
	</div>
	</div>
	<div class="item inactive">
	<img id="focus-img-02"
	src="static/images/focus-img-02.png"
	alt="Test APIs"
	data-cpn-template-localization="home-
	layout_template154_alt2 ">
	<div class="container">
	<div class="carousel-
	caption">
	<h2 id="carousel-
	heading-three">
	<span data-cpn-template-
	localization="home-
	layout_template154_views.apiportal.hom
	e.carousel.heading3.DBI">Test
	APIs</h2>
	<table
	class="carousel-text">
	<tbody>
	<tr>
	<td
	id="carousel-text-three"
	class="carousel-text">
	<span
	data-cpn-template-localization="home-
	layout_template154_views.apiportal.hom
	e.carousel.text3.DBI">
	View API details and test APIs
	</td>
	<td>
	<div
	id="signalcomp" class="carousel-text">
	<div
	id="home-apiSignupTrigger">
	<a class="btn btn-large btn-
	inverse">Sign Up</div></div></pre>
		<pre></div>
		</div>
		</div>
		<div class="item item3">
		<!--<img
		src="static/images/whitsunday.jp
		g" alt="${cpn-str-
		views.apiportal.home.carousel.he
		ading3.DBI}">-->
		<div
		class="container">
		<div
		class="carousel-caption">
		<h2
		style="font-size: 50px"
		id="carousel-heading-three">
		<span data-cpn-template-
		localization="home-
		layout_template150_views.apiport
		al.home.carousel.heading.DBI">
		Welcome to SAGTours Developer
		Site</h2>
		<div
		class="carousel-text">
		<p
		style="font-size: 24px"
		id="carousel-text-three">
		<span data-cpn-template-
		localization="home-
		layout_template150_views.apiport
		al.home.carousel.text.DBI">
		Explore the APIs we offer to
		support your App
		development</p>
		<p
		class="lead"> </p>
		<p
		class="lead"> </p>
		<p
		class="lead"> </p>
		</div>
		</div>
		<!-- <div
		class="carousel-box">
		
		<h2>webMethods API
		Management</h2>
		
		<h4>Industrial Strenght API
		solutions powered by
		webMethods</h4>
		</div>-->
		</div>
		</div></pre>

Element	In apiportal view	Modifications required in mysagtours view
	``</td>
</tr>

</tbody></table>

<!--
<h2>webMethods API Management</h2>
<h4>Industrial Strenght API solutions powered by webMethods</h4>
-->

‹
›
</div>``` | ```</div>
‹
›
<!-- /.carousel --> |

The corresponding changes have to be made to each of the CSS classes referred in the HTML template.

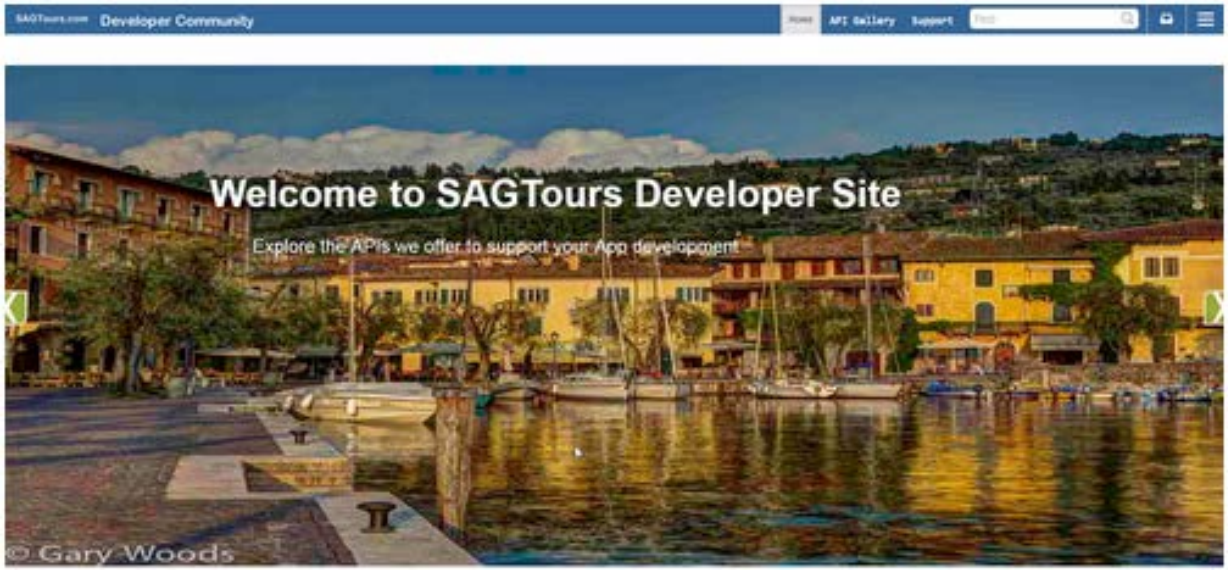
In the CSS section append the following CSS classes:

Element	Modified Style required mysagtours

carousel	**Type** - CSS
	Corresponds to - Styling for Image Carousel
	Changes Required - Styling
	``.carousel {
	margin-bottom: 10px;
	}
	.carousel .item {
	height: 650px;
	width: 100%;
	}
	.carousel-inner {
	background-color: #ffffff;
	background-size: initial;
	background-repeat-x: no-repeat;
	background-repeat-y: no-repeat;
	background-attachment: initial;
	background-origin: initial;
	background-clip: initial;```

Element	Modified Style required mysagtours

	`position: relative;`
	`width: 100%;`
	`}`
	`.carousel-inner > .item1 {`
	`background-image: url(cpn.img.benaco.png);`
	` background-size: 100% 650px;`
	`}`
	`.carousel-inner > .item2 {`
	`background-image: url(cpn.img.outback.png);`
	` background-size: 100% 650px;`
	`}`
	`.carousel-inner > .item3 {`
	`background-image: url(cpn.img.venice.png);`
	` background-size: 100% 650px;`
	`}`
	
	`.carousel-caption {`
	`background-color: transparent;`
	`position: inherit;`
	`max-width: 550px;`
	`padding-left: 5%;`
	`padding-right: 20px;`
	`padding-top: 20px;`
	`padding-bottom: 20px;`
	`margin-top: 10%;`
	`}`



Adding Additional Images

You can add additional images to the carousel or other elements in the UI. You have to upload the images and then refer to them in the HTML templates or CSS using *cpn.img.<imagename>*.

For example, you can upload an image called **sunshine.png** and then refer to that image in HTML as follows:

```
<img src="cpn.img.sunshine.png" height="42" width="42">
```

5.1.4 Customizing the Featurette

The featurette changes required for **mysagtours** are styling and content changes. This must be done in templates and CSS through Advanced Configuration.

In the Advanced Configuration for the Home page, edit the HTML template.

From the HTML template of the Home Page, the following information can be obtained about the featurette:

Element	Modified Style required mysagtours
container marketing	**Type** - CSS **Corresponds to** - Styling for individual featurette **Changes Required** - None

span4	**Type** - CSS
	Corresponds to - Styling for individual featurette
	Changes Required - Color and Heading size
	`.marketing .span4 {`
	`background-color: transparent;`
	`}`
	`.marketing .span4 h2 {`
	`height: auto;`
	`}`

featurette	Changes to each featurette to be done in the template **Type** - Container **Corresponds to** - Individual featurette **Changes Required** - Content

Append the above mentioned CSS changes for **span4** to the already existing CSS changes (made for Header).

In the HTML template for **Home** page, replace the content in each of the featurette (div class="span4"). For **mysagtours**, replace the content as follows:

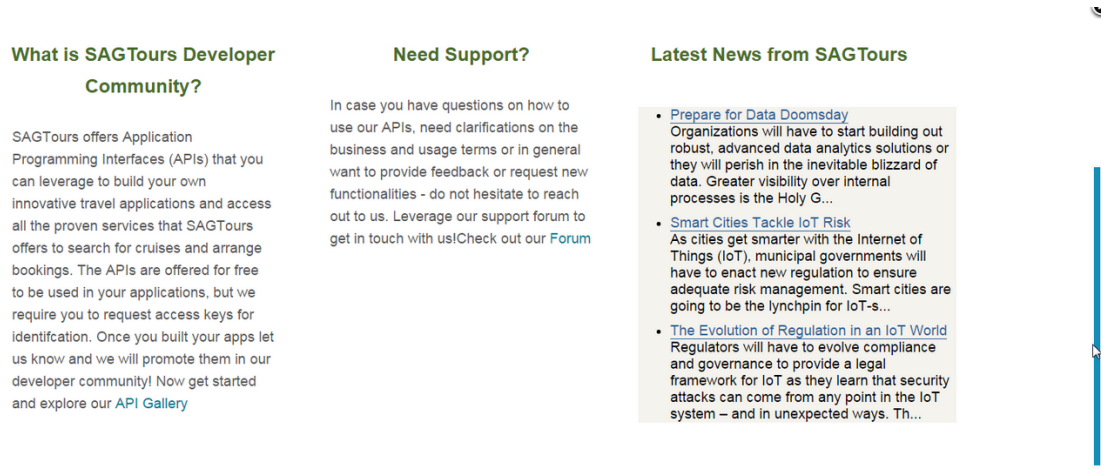
Featurette #	In apiportal view	In mysagtours view

Featurette 1	`<div class="span4">`
	`<i class="fa fa-search fa-4"></i>`
	`<h2 id="featurette-heading-one">${views.apiportal.home.featurettes.heading1.DBI}</h2>`
		`<div class="span4">`
		`<h2><span>What is SAGTours Developer Community?</span></h2>`
		`<p> <span>`
		`<span>SAGTours offers`

Featurette #	In apiportal view	In mysagtours view
	<p id="featurette-text-one">${views.apiportal.home.featurettes.content1.DBI}</p> <p> »</p> </div><!-- /.span4 -->	Application Programming Interfaces (APIs) that you can leverage to build your own innovative travel applications and access all the proven services that SAGTours offers to search for cruises and arrange bookings. The APIs are offered for free to be used in your applications, but we require you to request access keys for identifcation. Once you built your apps let us know and we will promote them in our developer community! Now get started and explore our API Gallery </p> </div>
Featurette 2	<div class="span4"> <i class="fa fa-users fa-4"></i> <h2 id="featurette-heading-two">${views.apiportal.home.featurettes.heading2.DBI}</h2> <p id="featurete-text-two">${views.apiportal.home.featurettes.content2.DBI}</p> <p> »</p> </div><!-- /.span4 -->	<div class="span4"> <h2>Need Support?</h2> <p> In case you have questions on how to use our APIs, need clarifications on the business and usage terms or in general want to provide feedback or request new functionalities - do not hesitate to reach out to us. Leverage our support forum to get in touch with us!Check out our Forum </p> </div>
Featurette 3	<div class="span4"> <i class="fa fa-comments fa-4"></i> <h2 id="featurette-heading-three">${views.apiportal.home.fea	<div class="span4"> <h2><span data-cpn-template-localization="home-layout_template176_views.apiportal.home.textblock.heading3.DBI">Latest News from

Featurette #	In apiportal view	In mysagtours view
	turettes.heading3.DBI}</h2> <p id="featurette-text-three">${views.apiportal.home.featurettes.content3.DBI}</p> <p> »</p> <!-- /.span4 -->	SAGTours</h2> <iframe id="feed-frame" src="/abs/static/com.aris.api.plugins.api.ApiPlugin/html/apiFeeds.html" frameborder="0" width="450px" height="470px"></iframe>

With this, the rendering of **Home** page changes to as follows:



Removing the Copyright Text

To remove the copyright text, navigate to Footer page. In the HTML template of the Footer page remove the node containing the copyright text.

Adding Java Scripts

Java Script functions can be added to any of the pages. Go to the JavaScripts section to add your Java Script functions. After adding the Java Script functions, you can refer to them in the HTML templates.

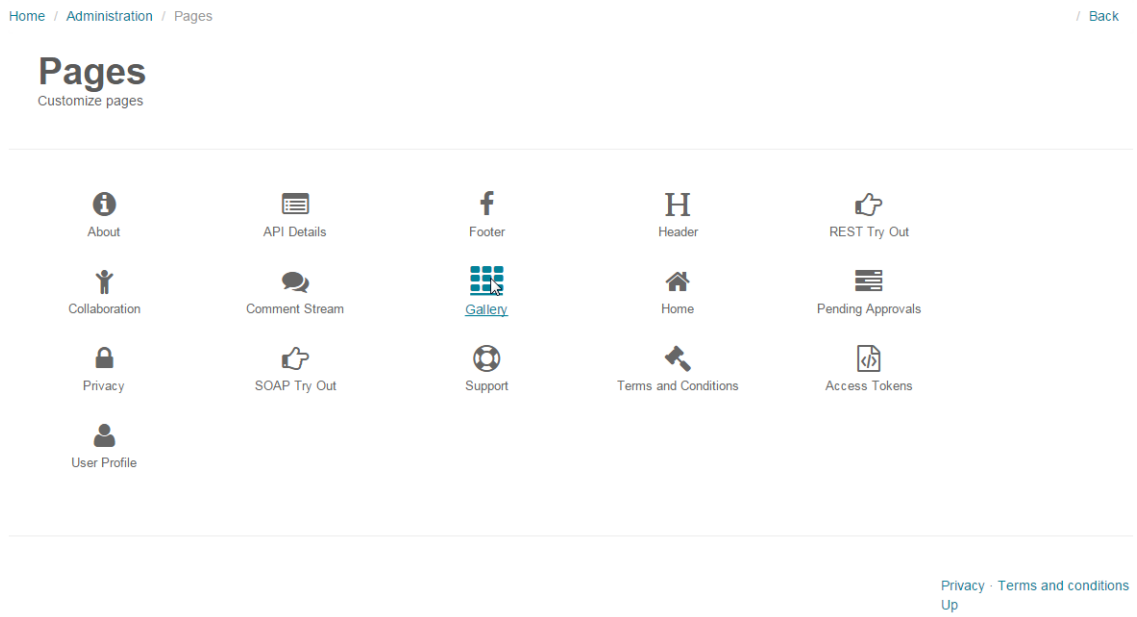
For example, add the following function in the JavaScript section and refer to it in the HTML template

```
function showJSDemo()
{
  var d = new Date();
  document.getElementById("featurette2").innerHTML = d;
};
```

```
<a href="javascript:;" onclick="showJSDemo();" >Show Date</a>
```

5.2 Customize the API Gallery Page

From the **Customization** page, select **Gallery** page for editing.



5.2.1 Customizing the Gallery

Navigate to the CSS section and then add the following CSS classes.

The following classes, for example **span4** class was also used by the Home page. If you try to modify the **span4** class, it also affects the design of the Home page. Hence, add the new class **gallery-ssc** to the beginning of the following CSS classes so that you can make the changes only available to the container present in the Gallery page.

Element	Modified Style required mysagtours

span4	• **Type** - CSS
	• **Corresponds to** - Styling for individual API
	• **Changes Required** - Color and Styling
	`.gallery-ssc .span4{`
	`width:100%;`
	`margin-top:0px;`
	`border-top-left-radius:0px;`
	`border-bottom-right-radius:0px;`
	`}`
	`.gallery-ssc .size375x375{`
	`max-width:98%;`
	`min-height:50px;`
	`}`

Element	Modified Style required mysagtours

	.marketing .gallery-ssc .span4 h2 {
	float: left;
	text-align: left;
	white-space: nowrap;
	width: 25%;
	overflow: hidden;
	text-overflow: ellipsis;
	margin: 0 0 0 1em;
	font-size: 14px;
	}
	.marketing .gallery-ssc .span4 .clamped {
	white-space: nowrap;
	overflow: hidden;
	text-overflow: ellipsis;
	width: 48%;
	margin: 0 0 0 1em;
	text-align: left;
	font-size: 14px!important;
	min-height:40px;
	max-height:40px;
	}
	.marketing .gallery-ssc .span4 .clamped p {
	margin: 0 0 0 1em;
	text-align: left;
	font-size: 14px;
	line-height: 40px;
	padding-left:2px;
	}
	.marketing .gallery-ssc .span4{
	border: solid 1px #E6E6E6;
	margin-bottom: 0px;
	padding-top: 0px;
	cursor:pointer;
	background-color: #fff;
	border: 1px solid #ddd;
	color: #555;
	}
	.gallery-ssc .span4 img {
	float: left;
	max-width: 30px!important;
	max-height: 30px!important;
	background-position: center center;
	background-repeat: no-repeat;
	background-size: cover;
	border: 1px solid #eee;
	border-radius: 99em;
	box-shadow: 0 3px 2px rgba(0, 0, 0, 0.3);
	display: block;
	height: 46px;
	margin: 0 0 0 1em;
	width: 46px;
	}

Element	Modified Style required mysagtours

	`.marketing  .gallery-ssc .span4 p>a{`
	`display:none;`
	`}`
	
	`.marketing .gallery-ssc .span4:hover, .marketing .gallery-ssc .span4:focus {`
	`  background-color: #f5f5f5;`
	`  color: #555;`
	`  cursor: pointer;`
	`  text-decoration: none;`
	`}`
	`.marketing .gallery-ssc .span4:hover img {`
	`  box-shadow: 0 3px 21px rgba(127, 219, 248, 1);`
	`}`

h2	• **Type** - CSS
	• **Corresponds to** - Styling for ungrouped header
	• **Changes Required** - Styling and hover effects
	`.marketing .gallery-ssc h2 {`
	`font-weight: bold;`
	`font-size: 20px;`
	`font-family: "Helvetica Neue",Helvetica,Arial,sans-serif !important;`
	`text-shadow: 0 1px 1px rgba(255, 255, 255, 0.9);`
	`margin-bottom: 0;`
	`}`

row	• **Type** - CSS
	• **Corresponds to** - Styling for individual API group
	• **Changes Required** - Size
	`.gallery-ssc .row {`
	`width: 101.8%;`
	`}`

groupBy	• **Type** - CSS
	• **Corresponds to** - Styling for individual API group
	• **Changes Required** - Styling
	`[class*="groupByProperty"] {`
	`border: 1px solid #ddd;`
	`border-top-left-radius: 3px;`
	`border-top-right-radius: 3px;`
	`background-color: rgba(226, 231, 221, 0.5);`
	`border-color: #dddddd;`
	`}`
	`.groupBy{`
	`margin-top: 2%;`
	`}`

Now these CSS classes can be referred in the HTML templates. For Gallery, the only change that you have to do is to use the **groupBy gallery-ssc** instead of **groupBy** class for the gallery element in the HTML template of Gallery page.

Showing or Hiding Maturity Status or Business Term

Showing or hiding the maturity status or business term in the gallery page is done by using Self Service Configuration (SSC). By default, both Maturity Status and Business Term are visible if they are configured while publishing the API.

```
/*
 * To hide the maturity status, add the following css.
 * To show the maturity status, remove the same.
 */
.maturitystatus {
    display : none;
}

/*
 * to hide the business term, add the following css
 * to show the business term, remove the same.
 */
.businessterm {
    display : none;
}
```

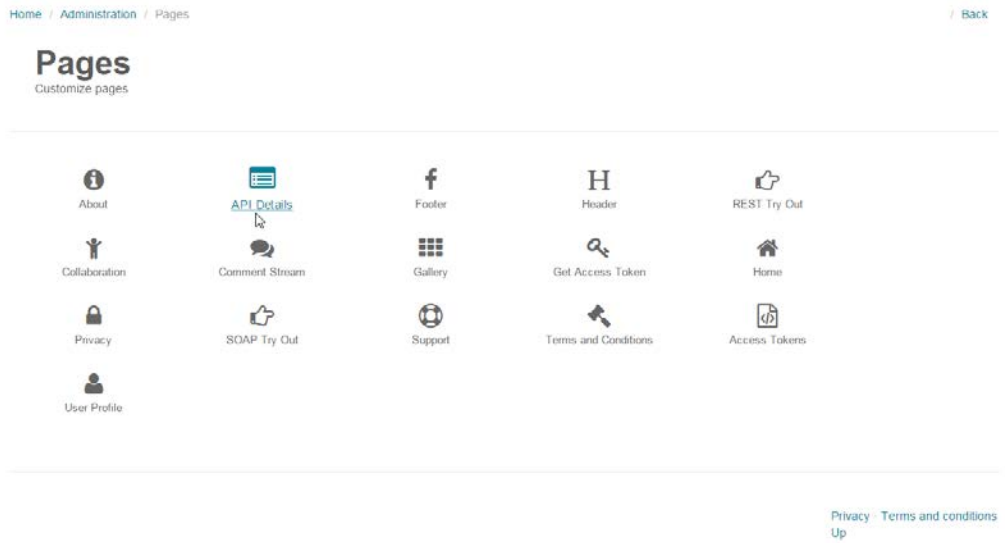
Adding jQuery

Add the following jquery code in the JavaScript section of Gallery page.

```
// this will allow the user to view the details about API by clicking the container
span4 instead of clicking the view details button
$(document).ready(function(){
$('.gallery-ssc .span4.size375x375').live("click" ,function (event) {
$(this).find('.viewDetails')[0].click();
});
});
```

5.3 Customize the API Details Page

From the **Customization** page, select **API Details** page for editing.



Perform the following changes in the HTML template of the **API Details** page:

Element	In apiportal view	Modifications required in mysagtours view

Container span9	`<div class="span9">`
	`<!-- Container for displaying the resources and methods-->`
	`//code.....`
	`</div>`
		Just add the id="cnt-resources-methods" for container
		`<div class="span9" id="cnt-resources-methods">`
		`// code.....`
		`</div>`

In the CSS section append the following CSS classes:

Element	Modified Style Required

Api-margin-left	**Type** - CSS
	Corresponds to - Styling for api resources and methods
	Changes Required - Alignment
	`.api-margin-left {`
	`padding-left: 3%;`
	`}`
	`.api-soap-margin-left {`
	`padding-left: 0;`
	`}`

th.td	**Type** - CSS **Corresponds to** - Styling for table header and data **Changes Required** - Alignment `.table-condensed th, .table-condensed td {`

Element	Modified Style Required

	`padding: 4px 3px 5px;`
	`}`
	
	`.table th, .table td{`
	`border-top:none;`
	`}`

tbody	**Type** - CSS
	Corresponds to - Styling for table body
	Changes Required - Styling
	`.table tbody+tbody{`
	`border-top:none;`
	`}`

restparam	**Type** - CSS
	Corresponds to - Styling for Rest resources
	Changes Required - Styling
	`.restparam{`
	`display:block!important;`
	`}`

soapcontent	**Type** - CSS
	Corresponds to - Styling for Soapcontent
	Changes Required - Styling
	`.soapcontent{`
	`display:block!important;`
	`}`

Panel-title-section	**Type** - CSS
	Corresponds to - Styling for Panel
	Changes Required - Cursor Styling
	`h3.panel-title-section:hover,h3.panel-title-section:focus{`
	`cursor:default!important;`
	`}`

apiproperties	**Type** - CSS
	Corresponds to - Styling for apiproperties
	Changes Required - Styling
	`#apiproperties {`
	`background-color: white;`
	`border-radius: 4px;`
	`}`

Adding jQuery

Add the following jquery code in the JavaScript section of the **API Details** page.

The following jquery will remove the toggle effects for each resource and method in the **API Details** page.

```
(function Forever(){
 if($('#cnt-resources-methods').length != 0) {
// this will collects the section elements present in the details page.
var inputs = document.getElementsByTagName("section");
// the following for loop will runs for each section elements.
// And it will get the id for corresponding section element and checks whether the
element contains data-in-page-nav-proxy or not.
// if the element contains the data-in-page-nav-proxy then the following code
removes the "collapse"
// class from the corresponding nextToggleClass element.
 for (x = 0 ; x < inputs.length ; x++){
 myname = inputs[x].getAttribute("id");
 if(myname.indexOf("section_portal_api_")==0){


var apiDetailsToggleId1 = $("#"+myname).data("in-page-nav-proxy");
// console.log("the apiDetailsToggleId is " + apiDetailsToggleId);

 if (apiDetailsToggleId1) {
 // console.log("the apiDetailsToggleId is " + apiDetailsToggleId1);

 if(!$("#" + apiDetailsToggleId1).hasClass("collapsed")){
 $("#" + apiDetailsToggleId1).click();
 // console.log("the collapsed is removed for " + apiDetailsToggleId1);
var nextToggleClass = $("#" + apiDetailsToggleId1).data("next-toggle-class");
 var parentClass = $("#" + apiDetailsToggleId1).data("parent-start-class");
 if(parentClass != undefined && nextToggleClass != undefined) {
 //Rest Object
 var toggleElement = $("#" +
apiDetailsToggleId1).parentsUntil("."+parentClass).siblings("."+nextToggleClass);
 $(toggleElement).removeClass("collapse");

 }
 }
}
// For the restapi_resource_methods in apiportal they show/hide the resource-
methods using the display property
// So the following code will add the css property "display:block" to that element
and removes the "api_details_content_toggle" Class.

if(!(myname!="section_portal_api_resource_description")){
 // console.log("Myname is " + myname);
 if(!$('.rest-api-resource-method-header a').hasClass("collapsed")){
 $('.rest-api-resource-method-header a').click();
$('.rest-api-resource-method-
header').parent().parent().parent().parent().parent().parent().next().removeClass("
collapse");
 $('.rest-resource-parameters-content div.rest-resource-
parameters').css('display','block');
$('.rest-resource-parameters-content div.rest-resource-
parameters').removeClass("api_detail_content_toggle");
 $('.api-margin-left div.api_detail_content_toggle').css('display','block');
```

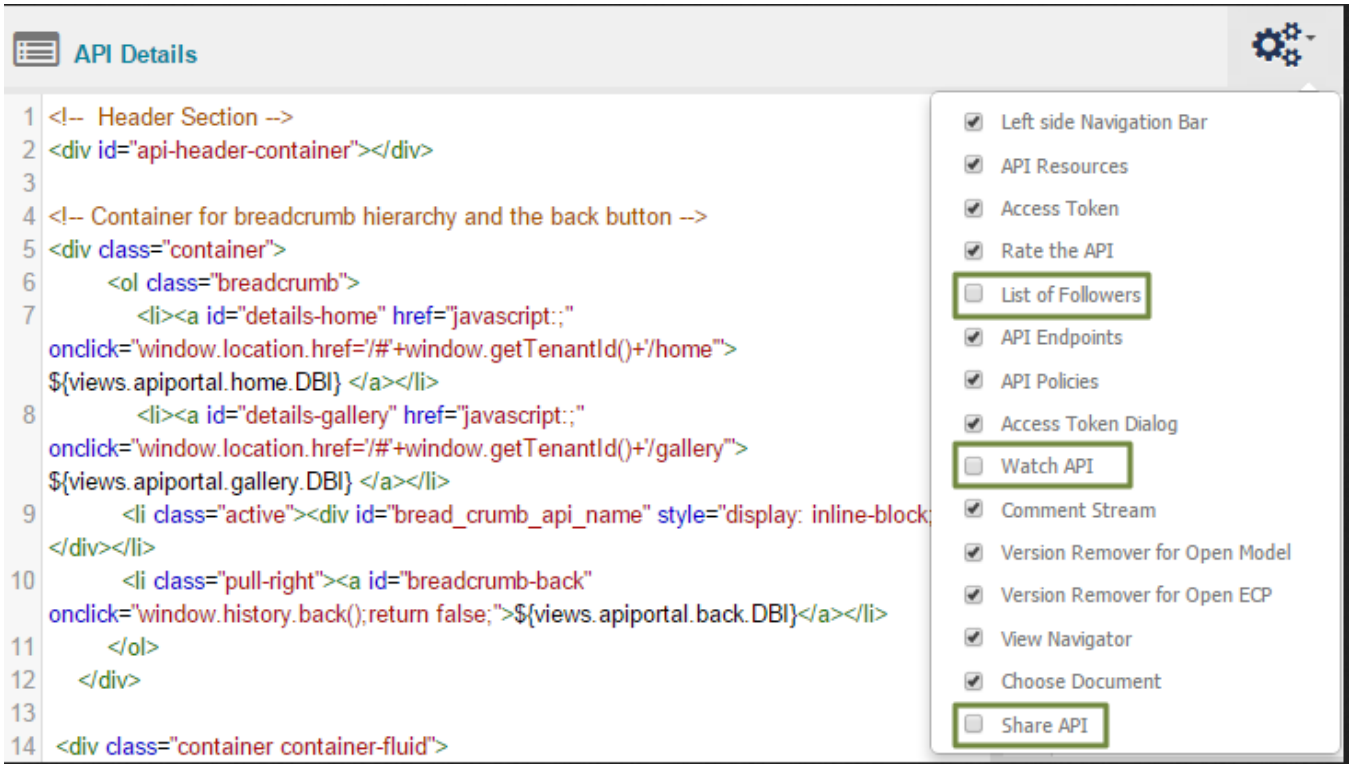
```
$('.api-margin-left
div.api_detail_content_toggle').removeClass("api_detail_content_toggle");
}
}
// for soap-methods
 if(!(myname!="section_portal_api_soap_methods")){
$("#soapMethodContent div.method-toggle-switch").removeClass("collapse");
$("#soapMethodContent div.api_detail_content_toggle").css('display','block');
}

 }
 }
}
 setTimeout(Forever,0);
})();


$(document).ready(function(){
// the following function will execute when the api_detail_header was fully loaded.
// this will add the new class "restparam" to the element which contains "rest-
resource-parameters" class.
$('.rest-resource-parameters-content .api_detail_header').live("click" ,function
(event) {

$('.rest-resource-parameters').addClass("restparam");
});

// this will add the new class "soapcontent" to toggle_content of the
"#soapMethodContent" element -to avoid the toggle effect..
$("#soapMethodContent h3.api_detail_header").live("click" ,function (event) {
$("#soapMethodContent div.api_detail_content_toggle").addClass("soapcontent");
});


});
```

Collaboration Plugins

The collaboration plugins have been implemented using the following components:

- Share API - Collaboration share icons
- Watch API - Component for watching an API
- List of Followers - Component for listing the followers of an API

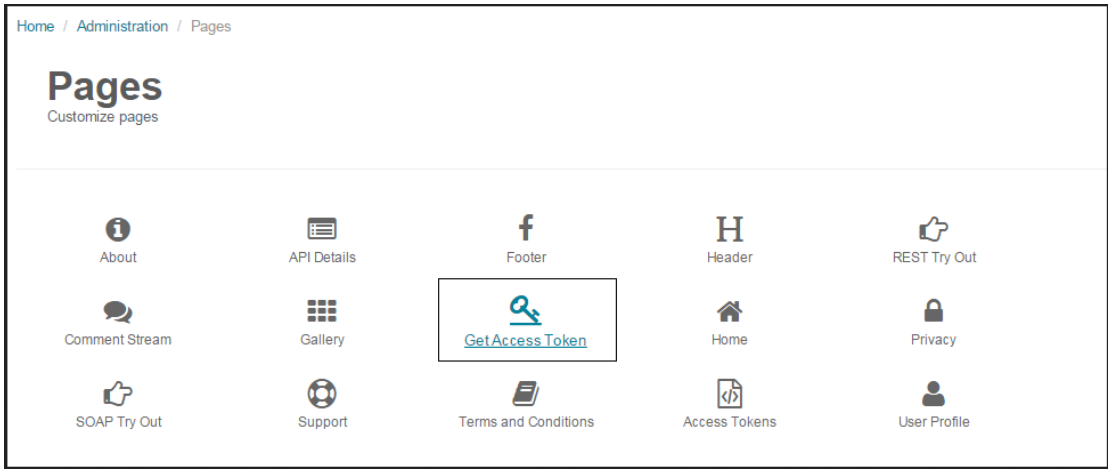
These plugins can be disabled by hiding the above components in **API Details** customization page as shown below.



5.4 Customize the Get Access Token Page

Note: The Get Access Token page is visible only when the configuration parameter **Is CentraSite based API Management Profile active?** is set to **true.** This configuration can be changed in the Configuration Settings page (**Administration > Configuration > Configuration Settings**).

In the **Customization** page, select **Get Access Token page** for editing.



Advanced Configuration

Perform the following changes in the HTML template of **Get Access Token** page:

Element	In apiportal view	Modifications required in mysagtours view
Container span9	1. Please provide the required information below to receive a personalized access token via e-mail. <hr> <label>Application name</label> 2. <textarea name="consumer.appdesc" class="form-control" id="application-description" placeholder="Enter application description"></textarea>	Just add the id="accesstoken-radiogroup" for container 1. Please provide the required information below to receive a personalized access token via e-mail. <hr> <label>Access Token Type</label> <input type="radio" name="consumer.accesstoken.type" class="radioAccessToken" id="apikey" checked value="APIKey"> API Key <input type="radio" name="consumer.accesstoken.type" class="radioAccessToken" id="OAuth" value="OAuth"> OAuth <label>Application name</label> 2. <textarea name="consumer.appdesc" class="form-control" id="application-description" placeholder="Enter application description"></textarea> The application description must not be empty.

Adding Java Script function

If you want to add UI level validation then you have to add the function in the Java Script. The function name should be **validateAccessTokenRequest**() and it has to return a boolean value. If the function returns true, then the request is sent to the server.

The function shown below validates the mandatory inputs.

Validation function

```
function validateAccessTokenRequest() {
   alert($("#application-description").val() );
   if ($("#application-description").val() ==  "") {
        $("#application-desc-error").show() ;
         return false;
```

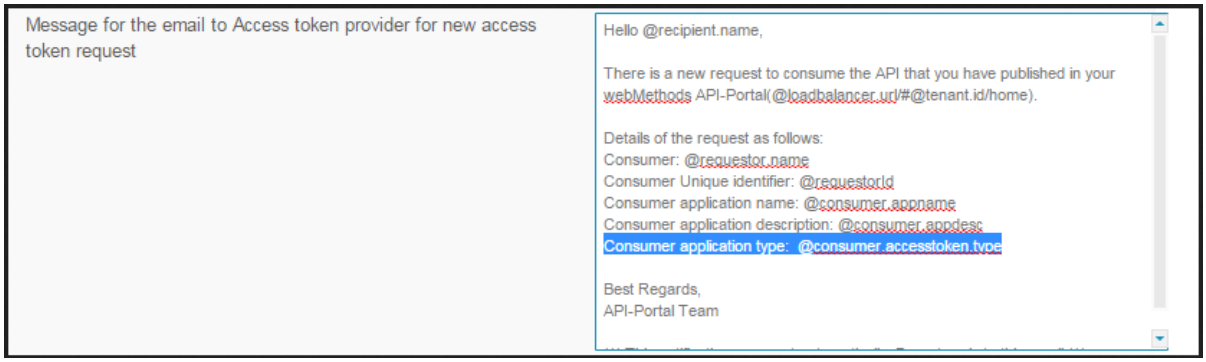
```
    } else {
      return true;
    }
}
```

Modifying Email template

API Portal is configurable to work as a standalone component and can be integrated with any third party API-Management system, which may not necessarily have Mediator or CentraSite present. You can configure API Portal to work with different key management systems for access token retrieval functions for the APIs deployed in the third party environment. Depending on the deployment model, the configuration parameter **Is CentraSite based API Management Profile active?** has to be configured accordingly. This value has to be changed to false for key management to be handled by the third party vendor. When this parameter is set to false, API Portal triggers an email workflow with the third party vendors for access token management.

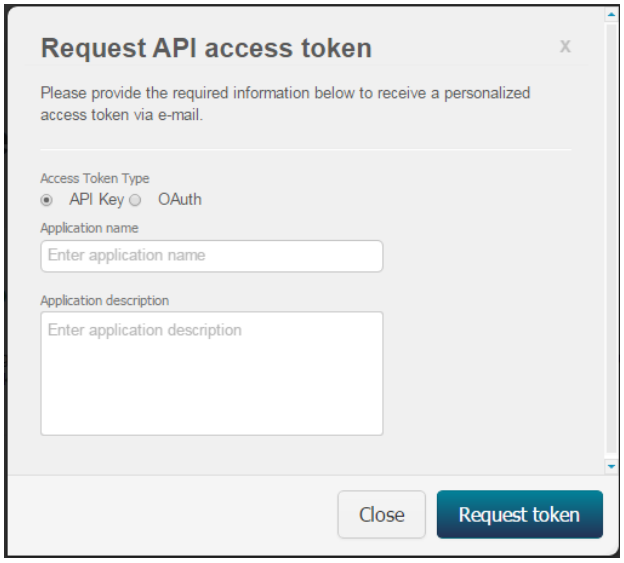
After customization of **Get Access Token** page, if the Administrator wants to receive the selected settings (in this case - Access Token Type) in an email, then the Administrator has to add the following in the Configuration Settings page.

Consumer application type: **@consumer.accesstoken.type.**



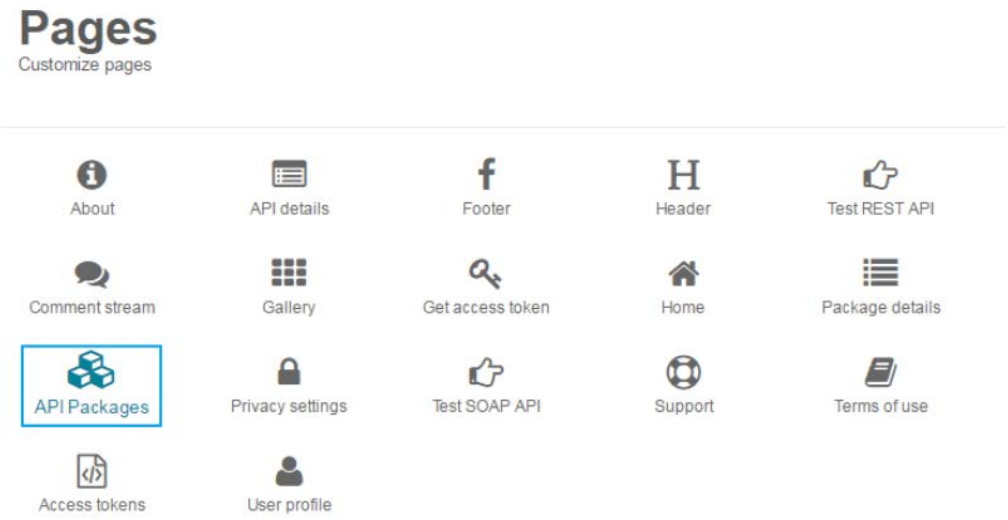
The logic behind the email template is to just use the HTML template name field name with @ prefix.

The following image shows how the **Get Access Token** page of the **mysagtours** looks like after we perform the customization.



5.5 Customize the API Package Gallery Page

From the Customization page, select API Packages for editing.



HTML page with CSS

The HTML page can be modified as required.

Portal template holder

The template should always be within the *div* element with id *package-template-source*. This element should have the display set to *none*.

```
<!-- packages template starts -->
<div id="package-template-source" style="display: none;">
    <!-- add your html template here -->
</div>
<!--./package-template-source -->
```

JSON data

To process the template, data is required. Data is available in the form of JSON.

Sample data is as shown:


```
{
   "packages":[
      {
         "identifier":"c.package.API-Portal.C3e9QX4yEeYCivjKuAYrYw.-1",
         "id":"0b77bd41-7e32-11e6-028a-f8cab8062b63",
         "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/domain-
default.png",
         "name":"ChuckNorrispackage",
         "apis":[
            {
               "id":"c63b4851-7e31-11e6-028a-f8cab8062b63",
               "name":"chucknorrisapiinpackage",
               "identifier":"c.restObject.API-Portal.xjtIUX4xEeYCivjKuAYrYw.-1",
               "description":"Chuck Norris facts are satirical factoids about
martial artist and actor Chuck Norris that have become an Internet phenomenon and
as a result have become widespread in popular culture. The 'facts' are normally
absurd hyperbolic claims about Norris' toughness, attitude, virility,
sophistication, and masculinity.",
               "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/packag
e-default.png"
            }
         ],
         "plans":[
            {
               "id":"0bba6b90-7e32-11e6-028a-f8cab8062b63",
               "name":"ChuckNorrisPlan",
               "description":"a global computer network providing a variety of
information and communication facilities, consisting of interconnected networks
using standardized communication protocols.",
               "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/plan-
default.png",
               "deprecated":false,
               "cost":{
                  "currency":null,
                  "value":"199",
                  "duration":null
               },
               "security":[
                  "APIKey"
               ]
            }
         ],
         "description":"a global computer network providing a variety of
information and communication facilities, consisting of interconnected networks
using standardized communication protocols.",
         "deprecated":false
      }
   ]
}
```

Portal event attributes

Name	Value	Description
data-portal-package-identifier	**identifier** attribute of a package	When an element having this attribute is clicked, the details page of the package (denoted by the identifier) is displayed.

Note: These attributes are specific to this page.

JavaScript hook function

Once the page is loaded, the javaScript function *onPackageGalleryLoad()* is invoked.

Page specific styles

All CSS specific to the package gallery page is present as part of the HTML. As part of the customization, CSS modification can be done.

5.5.1 Sample Customization for SAGTours

HTML with CSS

Template:

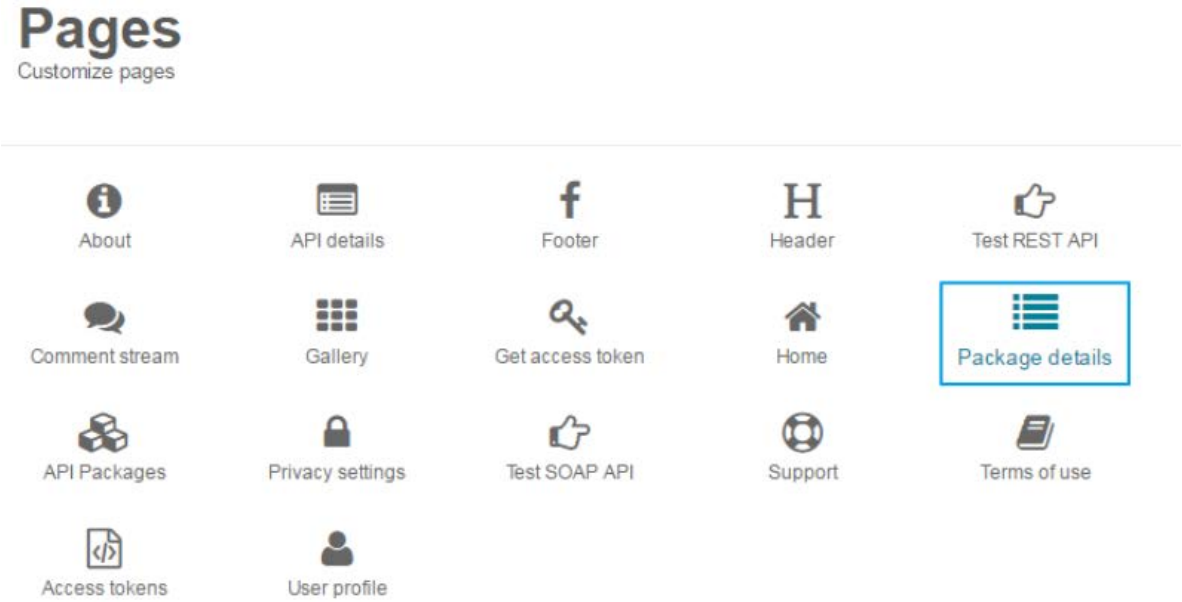
```
<!-- styles used for package gallery page -->
<style>
    .package-page-title{
        font-weight: bold;
        color: rgb(90,90,90);
        margin-bottom: 20px;
    }

   .packages-table{
        display:table;
        border-collapse: collapse;
    }
    .package-row {
        display: table-row;
        border: solid 1px #ddd;
        background-color: white;
    }

    .heading.package-row{
        background-color: #F5F5F5;
    }

    .content.package-row:focus, .content.package-row:hover {
        background-color: #F5F5F5;
        cursor: pointer;
   }
```

```
    .content .package-cell:first-child {
        padding: 15px;
    }

    .heading .package-cell {
        padding: 10px 0;
    }

    .package-cell {
        display: table-cell;
    }
</style>
<!-- styles ends -->
<!-- packages template starts -->
<div id="package-template-source" style="display: none;">

    <div class="container">
        <!--header of the page/row-->
        <h1 class="package-page-title">${views.apiportal.packages.heading.DBI}</h1>
        {{^packages}}
        <div class="container">
            <div class="hero-unit hero-unit-custom">
                <h1 style="text-align: center">
                    <small>${views.apiportal.packages.nopackages.DBI}</small>
                </h1>
            </div>
        </div>
        {{/packages}}

        <!-- SAG tours package table -->
        <div class="container">
            <div class="packages-table table">
                    <div class="heading package-row">
                        <div  class="package-cell" style="min-width:32px;width: 5%"
> </div>
                        <div  class="package-cell" style="width: 10%"> Name  </div>
                        <div  class="package-cell" style="width: 55%"> Description
</div>
                        <div  class="package-cell" style="width: 15%;text-
align:center"> APIs  </div>
                        <div  class="package-cell" style="width: 15%;text-
align:center"> Plans  </div>
                    </div>

                    {{#packages}}
                    <div class="content package-row" data-portal-package-
identifier="{{identifier}}">
                        <div  class="package-cell" style="min-width:32px;width: 5%"
>  <img src="{{icon}}" height="32px" width="32px"> </div>
                        <div  class="package-cell" style="width: 10%"> {{name}}
</div>
                        <div  class="package-cell" style="width:
40%">{{description}}</div>
                        <div  class="package-cell" style="width: 15%;text-
align:center"> {{apis.length}}  </div>
```

```
                        <div  class="package-cell" style="width: 15%;text-
align:center"> {{plans.length}}  </div>
                    </div>
                    {{/packages}}

            </div>
        </div>
        <!-- ./SAG tours package table -->

    </div><!-- /.container -->
</div>
<!--./package-template-source -->
<div class="container">
    <ol class="breadcrumb">
        <li><a id="support-home" href="javascript:;"
onclick="window.location.href='/#'+window.getTenantId()+'/home'">
${views.apiportal.home.DBI} </a></li>
        <li class="active"> ${views.apiportal.packages.heading.DBI} </li>
        <li class="pull-right"><a id="breadcrumb-back"
onclick="window.history.back();return false;">${views.apiportal.back.DBI}</a></li>
    </ol>
</div>
<!-- Holder where templates mentioned above processed and rendered -->
<div id="packages-container"></div>
```

5.6 Customize Package Details

From the Customization page, select Package details page for editing.



HTML page with CSS

The HTML page can be modified as required.

Portal template holder

The template should always be within the *div* element with id *package-view-template-source*. This element should have display set to *none*.

```
<!-- packages view template starts -->
<div id="package-view-template-source" style="display: none;">
    <!-- add your html template here -->
</div>
<!--./package view template source -->
```

JSON data

To process the template, data is required. Data is available in the form of JSON.

Sample data is as shown:


```
{
   "identifier":"c.package.API-Portal.k_o7kXqTEeZbi9S-2QjF8Q.-1",
   "id":"93fa3b91-7a93-11e6-5b8b-d4bed908c5f1",
   "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/domain-
default.png",
   "name":"Petstore",
   "apis":[
      {
         "id":"3bf51f01-7a93-11e6-5b8b-d4bed908c5f1",
         "name":"Petstore New",
         "identifier":"c.restObject.API-Portal.O_UfAXqTEeZbi9S-2QjF8Q.-1",
         "description":"This is a sample server Petstore server.  You can find out
more about Swagger at <a href=\"http://swagger.io\">http://swagger.io</a> or on
irc.freenode.net, #swagger.  For this sample, you can use the api key \"special-
key\" to test the authorization filters",
"icon":"R0lGODlhQABAAPf/AMPGygp0q4OKkn6FjQlzq9LU1y6EuBR4r5+kq+/w8aOoriqDtsDEyNbY21S
Wxfb29zqKvayxt/n5+h59spSaoSSAte7v8KGnrMrN0IyTmrG2ur7Cxgx0rMnMz5OZoEGNvzeIu1+byVqZyB
N3rkeRwUiRwTCGuV6cyQp0rCaAtRB2rSN/tE+UxE+Uw0OOvx5+skGOvz2LvjOGuSyEuB18sRZ5sFqZxwpzq
0SPvyaBtZedpGafzBd7r73BxRN4ruTl54mQl6WqsOvy9mOdyw51rfj4+d7g4o+Wndnb3cLFye3u78LGyZac
o4aNlBN4r5KZn87R1PT19fr6+/z8/Pb39/Lz87e7wMbJzQ92rYCIj56jqezt7tja3Jqgpqmusxl6sPv7/Ob
n6Q52rK2yt/Dx8jOHurW6vmKey+nr7Lq+wuLj5tTX2WOey97f4vv8/NTW2YWMlM7S1DiNut/h4w52rbK2u6
ywtczP0ufo6trp8Im71dze4Mrg67rW5evs7enq6+Pk5rm9wvz8/Y+VnXmy0N3f4WKdy5uhp9vd3+rr7IiPl
pGXnmOdyujq6+Pl5pmfpbu/wxl7sI2Um+Lj5SiEtSyDt7y/xNnc3tXX2s/S1XyDi/Hy82mpyra6v8jLzs/R
1dHU1w92rPLz9Kitsg11rOHi5MbJzIqRmIuSmZifpLzAxPP09OHj5WOeytLV1xF3rqesstHT1o2UnPn6+mK
eyuXm6P3+/pnE29rc3s3Q0w91rBl7sbi8wcTIy/r7+////8XIzOTm58bKza+0ub3AxcvO0RR3rt3e4MDEx6
rN4MPHyvf4+M/R1PX29k6Tw+jp6/r6+kiXwL7CxaarsQ91rZiepd7f4eDh5KqvtISLk93g4bK2vNjb3t/g4
t/g4zSHutnc3TCFuMvP0oeOlbC1usfKzv39/fz9/Rt7sdzf4LS4vbW5viOAtBx8smKdyouSmvj5+bq+w56j
qpyhqJ2jqRJ4rhh6sBh6sRh7sPDx8Rh7sRl6sfv7+4eOlgdyqv///yH5BAEAAP8ALAAAAABAAEAAAAj/AP8
JHEiwoMGDCBMqXMiwocOHECNKnEgRYb+LGDNirMjRoqBfU6gkwLOkZMl+HVMS7OfrFzQygN4o61QnwhKUKl
VmXBJTmZWMOYP+62fypNCj/XQoVYrzaMdGmeZp7EchUKZGTiWK+hSBSRByvHps6MFr2DR6FDJE+CQqK0Mqd
xZhY+DKFShXb97YhdJhCaRtQXTIukPFLUIjsoblKrTnmiM8YdS0QbImTgdlPaxosHOBSQZvhgtiUOCpVrBn
ShIoQRN5cuXLmTcHQUBBFobQ/6j00LDn2ZZNUaqoZi2ZsmXMmu3MTvXkXY/CWakEipdISZUiVIIPb20cdvL
lFAYp/woE/WgPVZs2PZCAXftq7q+Ry0aQKjyQcT2cYliXb9UyKexlJ9x7xcUXm3L02dcEHLcFZQQseDRTBD
8Atjcgca7FYUoP6kQwzQWHMPHEERkA0UQ2cBiRExWDrEFFEWBQGKB7xFkDSjmq1DGGF0FcoEUXIpJoogACN
FEeR3cEMsuEMVYo4HCOcIFBD2mYocGOPf4YZIlNCJCFAHekJAoFrMwCzRRNzjjgHKBckQSVVmLpI5Ajcull
Fk20xdEnVrgxyxRoymjhFtpAgYGbcF7J45xbDpnFAAJ80lEE3LjhiyCBOhmFBd24YiiiVSqaJZ1CdvnoABF
w1Ig88LjhBqZpYv+3iiMNeHrom6HKqWWdjg6gCRxYUZSJFba4MQWsglLhxyW1foprnIvuWqqXvgqQSUWB5F
LsOcg6GQyztoIK7aiNmurrAIFUBMscxZrTbYBzgOtsorqSauejmgwAS0XVWADPMlQ0E8Uqm5CRgAVb+NEIZ
D8AUooR6SACDhcN6BVLJrmIg0EHnpgCjDJLJIEMMtVUpMAgU6Ws8sorD6IAR0vFLPPMNNdc80Qs56zzzhs5
1I/BCQRtgRJKbGG0H34kksgfTONRiyOsGHEMEhXHwswdHAtjSi/KAJBEEgxssIE0PRBjiSVNMfTzD2w3PEk
pcxhhBGOI4IIEF1xgUgAUxbj/CYkVNY2iAAKHPKIDBRR4sMgRkqByChCK9AOHAGkvtHbbgLwd99x71H133n
tjAEwSqtAUgeCEG85E4os3/njkk1eu0OVsZw633HTbjbfefPttOuqFH846445DLjnlD9Hu9u2cI4LE57zfC
snvgwePuOLEv3687An9HLTQRBudcNJLN/101Mcw+4bVWHuiNddegy022WajnTzP+OffM27892+YPwAMoAAH
SMACGvCAAnyIP3bAwAY68IEQjKAEJ8hAfyjQEIxgwxlowYghcJANjGgFG4ZAwjOcYYQjdAcJaTGEE7aQEWc
```

```
YQita0UJD1NAQbLDhECzoEH+EIAQn+GEl/wg4ARecwASkIGAlHHACF0wAgKQwgQ2GWMBKnCCIIeBhQ/whgi
6KwAE84IcYx9gHOXyDFEIY4xj1YIBwyKEPYhQCIRYQRjWOkQcO6KINtMgQfzjgjw5gQR3tmIdXcCCNdtRDJ
XiAyDESYpB25AELAMnHhfijBS1wRgtKUEceAJAHeeCHHA7JD08GsAIGIAQ/8uDJW6xSBZ8Uoykr0AIWaLKS
CvFHCUiwSxd08pOhpAQpTQnAFRiAE2LUAyUAqIIFkAAHncRBCXZJAl7iMiH++MAHYPCBGECSjDUIQCPHaMY
R8EGNehjBAmDgTVnGQJvc1OY1EeIPCNgTAiD4Jh8IUf+DBYjTjqIMRw54oAc18uEV+OwkCO55z3kexB9liK
gMTNBJSoRSD7soww3SSEx/fKECPvBHSOXgSn5EIwcUlaUJIsrSMjjUIP6ohExnQEdZooMSaeREJAjAUQEe4
BVw7AMA5ZDGaKygpqVcQCVmwNSlvrQg/shBDlKQghV0sgI1UKUQeMBTgCbjFci0Ix9IkQJ2dHIFKZBqBXJQ
gacSxB8vmMAEXkCDTsqVA+fsQ1ftmAwsgPWcYrwFD2owgXbYNa5ylatbB+IPe3xhF1/YBxEASIQvfKEeAfA
HB1RAAAKS4gCRGEFmKVuDL9zjC2IAIB0isQt9fAEfX4jEYgXijxGZjOAAuPWBE0bghAM4wQk+CK4PDhBc4v
rAGMK97QGQC1zd6ha4vT3ACJ7rhNn+wx9EoAMWiCAGMRBBF3QQw3ax4F1qbJcaRAgFEbari+1y17t0WG8oQ
qFdOuhCvWKIL3et648A+PcGKLiBf/8bgBsY2MAcCDAKOGDgAju4wAIWcAAC3GAC+5e/CMywhjcMQP95+MMg
DrGIKRIQADs="
      }
   ],
   "plans":[
      {
         "id":"c17487f1-7c01-11e6-5b8b-d4bed908c5f1",
         "name":"Silver",
         "description":"This is a sample server Petstore server. You can find out
more about Swagger at <a href=\"http://swagger.io\">http://swagger.io</a> or on
irc.freenode.net, #swagger. For this sample, you can use the api key \"special-
key\" to test the authorization filters\r\n\r\n",
         "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/plan-
default.png",
         "deprecated":false,
         "cost":{
            "currency":null,
            "value":"$100",
            "duration":null
         },
         "security":[
            "APIKey"
         ],
         "enforcements":[
            {
               "name":"Throttling ",
               "properties":[
                  {
                     "key":"Validation Interval",
                     "value":"3 minutes"
                  },
                  {
                     "key":"Violation Message",
                     "value":"three"
                  },
                  {
                     "key":"Maximum Request Quota",
                     "value":"3"
                  }
               ]
            },
            {
               "name":"Throttling ",
               "properties":[
                  {
                     "key":"Violation Message",
```

```
                    "value":"ione"
                },
                {
                    "key":"Validation Interval",
                    "value":"1 minutes"
                },
                {
                    "key":"Maximum Request Quota",
                    "value":"1"
                }
            ]
        },
        {
            "name":"Throttling ",
            "properties":[
                {
                    "key":"Validation Interval",
                    "value":"2 minutes"
                },
                {
                    "key":"Maximum Request Quota",
                    "value":"2"
                },
                {
                    "key":"Violation Message",
                    "value":"two"
                }
            ]
        }
    ]
},
{
    "id":"947781e1-7a93-11e6-5b8b-d4bed908c5f1",
    "name":"Gold",
    "description":"Gold Package",
    "icon":"/abs/static/com.aris.api.plugins.api.ApiPlugin/images/plan-
default.png",
    "deprecated":false,
    "cost":{
        "currency":null,
        "value":"$200",
        "duration":null
    },
    "security":[
        "APIKey"
    ],
    "enforcements":[
        {
            "name":"Throttling ",
            "properties":[
                {
                    "key":"Validation Interval",
                    "value":"12 minutes"
                },
```

```
                  {
                     "key":"Violation Message",
                     "value":"test"
                  },
                  {
                     "key":"Maximum Request Quota",
                     "value":"12"
                  }
               ]
            },
            {
               "name":"Throttling ",
               "properties":[
                  {
                     "key":"Violation Message",
                     "value":"test two"
                  },
                  {
                     "key":"Maximum Request Quota",
                     "value":"20"
                  },
                  {
                     "key":"Validation Interval",
                     "value":"2 minutes"
                  }
               ]
            },
            {
               "name":"Throttling ",
               "properties":[
                  {
                     "key":"Violation Message",
                     "value":"test"
                  },
                  {
                     "key":"Maximum Request Quota",
                     "value":"12"
                  },
                  {
                     "key":"Validation Interval",
                     "value":"1 minutes"
                  }
               ]
            }
         ]
      }
   ],
   "description":"Petstore package description",
   "deprecated":false
}
```

Portal event attributes

Name	Value	Description
data-portal-api-id	apis.id	When an element having this attribute is clicked, the details page of the API (denoted by the identifier) is displayed.
data-portal-plan-id	plans.id	When an element having this attribute is clicked, the subscription pop-up of the plan (denoted by the identifier) is displayed.

Note: These attributes are specific to this page.

JavaScript hook function

Once the page is loaded, JavaScript function *onPackageViewLoad()* is invoked.

Page specific styles

All CSS specific to the package details page is present as part of the HTML. As part of the customization, CSS modification can be done.

5.6.1 Sample Customization for SAGTours

HTML with CSS

Template:

```
<!-- styles starts  -->
<style>
    .portal-table {
        display : table;
        border-collapse: collapse;
    }
    .table-row {
        display : table-row;
        border: solid 1px #ddd;
        background-color: white;
    }
    .table-cell {
        display: table-cell;
    }

    .table-heading.table-row{
        background-color: #F5F5F5;
    }

    .table-body.table-row:focus, .table-body.table-row:hover {
        background-color: #F5F5F5;
        cursor: pointer;
```

```
    }

    .table-body .table-cell {
        padding: 15px 0;
    }

    .table-heading .table-cell {
        padding: 10px 0;
    }
    .package-detail-container h2 {
        font-weight: normal;
    }
    .no-underline:hover,.no-underline:focus{
        text-decoration:none;
    }
    .plans-container {
        height : auto;
    }

    .plan-container {
        height: 35px;
        margin-bottom: 10px;
    }

    .subscribe-btn {
        border: 1px solid #038299;
        padding: 5px;
        border-radius: 5px;
    }
    #section-portal_package_name .row,.package-apis-container.row {
        margin-left: 0 !important;
    }

    .plan-name {
        font-size: 20px;
        margin-left: 10px;
    }

    #enforcements .table-cell {
        padding: 15px;
    }

    #enforcements .span6:nth-child(2n+1) {
        margin-left: 0;
        margin-bottom: 20px;
    }
    #enforcements .span6:nth-child(2n) {
        margin-bottom: 20px;
    }
</style>
<!-- styles ends -->

<!-- packages view - template starts -->
<div id="package-view-template-source" style="display: none;">
```

```
    <!--Navigation - breadcrumb-->
    <div class="container">
        <ol class="breadcrumb">
            <li>
                <a id="support-home" href="javascript:;"
onclick="window.location.href='/#'+window.getTenantId()+'/home'">
${views.apiportal.home.DBI} </a>
            </li>
            <li>
                <a id="details-gallery" href="javascript:;"
onclick="window.location.href='/#'+window.getTenantId()+'/packages'">
${views.apiportal.packages.heading.DBI}</a>
            </li>
            <li class="active"> {{name}} </li>
            <li class="pull-right">
            <a id="breadcrumb-back" onclick="window.history.back();return
false;">${views.apiportal.back.DBI}</a>
            </li>
        </ol>
    </div>
    <div class="container container-fluid">
        <div class="row-fluid">

            <!-- left scroll-spy -->
            <div class="span2">
                <div class="bs-sidebar hidden-print affix" id="myScrollspy" data-
portal-scroll-spy >
                    <ul class="nav nav-list">
                        <li class="nav-
header">${view.apiportal.packagedetail.navigation.heading.DBI}</li>
                        <li class="lefside_in_page active"><a style="width:9em;
word-wrap:break-word;" href="#section-portal_package_name">
                            ${views.apiportal.about.DBI} {{name}}</a></li>
                        <li class="lefside_in_page"><a href="#section-
portal_package_apis">${views.apiportal.packages.apis.DBI}</a></li>
                        <li class="lefside_in_page"><a href="#section-
portal_package_plans">${views.apiportal.packages.plans.DBI}</a>
                        </li>
                    </ul>
                </div>
            </div>
            <!-- ./left-scroll-spy-->

            <!-- package-detail-container -->
            <div class="span10 package-detail-container">
                <!-- package header -->
                <div class="hero-unit">
                    <div id="headerherounit">
                        <table>
                            <tbody>
                            <tr>
                                <td>
                                    <div id="api_header_icon">
                                        <div>
```

```
                                            <img style="margin-right:9px;max-
height: 64px; max-width: 64px;" src="{{icon}}">
                                        </div>
                                    </div>
                                </td>
                                <td>
                                    <div>
                                        <h1 id="api_header_name"> {{name}} </h1>
                                    </div>
                                </td>
                            </tr>
                            </tbody>
                        </table>
                    </div>
                </div>
                <!-- ./package header -->
                <!-- package name and description section -->
                <div id="section-portal_package_name">
                    <h2 id="01">
                        <i class="fa fa-info-circle fa-1x">
                        </i> <span> ${views.apiportal.about.DBI}</span><span
id="api_content_api_name"> {{name}} </span>
                    </h2>
                    <div class="row">
                        <div class="span">{{description}}</div>
                    </div>
                    <hr />
                </div>

                <!-- api section -->
                <div id="section-portal_package_apis">

                    <!-- section heading -->
                    <h2 style="margin-bottom: 17px;">
                        <i class=" fa fa-cogs fa-1x"></i>
                        <a href="javascript:;" class="no-underline"
><span>${views.apiportal.packages.apis.DBI}</span></a>
                    </h2>
                    <!-- ./section heading -->

                    <!-- api list -->
                    <div class="portal-table">
                        <div class="table-heading table-row">
                            <div  class="table-cell" style="min-width:32px;width:
5%" > </div>
                            <div  class="table-cell" style="width: 10%"> Name
</div>
                            <div  class="table-cell" style="width: 55%">
Description </div>
                        </div>
                        {{#apis}}
                        <div class="table-body table-row" data-portal-api-
id="{{identifier}}">
```

```
                            <div  class="table-cell" style="min-width:32px;width:
5%;padding-left:15px" >  <img src="{{icon}}" height="32px"
width="32px"> </div>
                            <div  class="table-cell" style="width: 10%"> {{name}}
</div>
                            <div  class="table-cell" style="width:
55%">{{description}}</div>
                        </div>
                        {{/apis}}
                    </div>
                    <!-- ./api list -->

                    <hr />
                </div>
                <!-- ./api section -->
                <!-- plan section -->
                <div id="section-portal_package_plans">
                    <!-- plan section heading -->
                    <h2>
                        <i class="fa fa-files-o fa-1x"></i>
                        <a href="javascript:;" class="no-underline">
<span>${views.apiportal.packages.plans.DBI}</span></a>
                    </h2>
                    <!-- ./plan section heading -->

                    <!-- disclosure panel/accordion -->
                    <div id="plans-container">
                    {{#plans}}
                        <!-- plan heading-->
                        <div class="plan-container">
                            <div style="display:inline-block;margin-top:8px">
                                <i class="indicator fa fa-chevron-down" aria-
hidden="true"></i>
                                <a class="plan-name no-underline" data-
toggle="collapse" data-parent="#plans-container" href="#{{id}}">{{name}}
                                {{#if cost.value}}
                                    ( {{cost.value}} )
                                {{/if}}
                                </a>
                            </div>
                            <a class="pull-right subscribe-btn no-underline" data-
portal-plan-id="{{id}}" > ${view.apiportal.packagedetail.plan.subscribe.BTN} </a>
                        </div>
                        <!-- ./plan heading-->


                        <!-- plan content-->
                        <div id="{{id}}" class="collapse in">

                            <!-- description -->
                            <div style="margin-bottom:20px">
                            {{description}}
                            </div>
                            <!-- ./description -->
```

```
                            <!-- enforcements -->
                            <div id="enforcements">
                                {{#enforcements}}
                                <div class="span6 portal-table">
                                    {{#properties}}
                                    <div class="table-row">
                                        <div class="table-cell"
style="width:100%;white-space: nowrap">{{key}}</div>
                                        <div class="table-cell"
style="width:100%;white-space: nowrap">{{value}}</div>
                                    </div>
                                    {{/properties}}
                                </div>
                                {{/enforcements}}
                            </div>
                            <!-- ./enforcements -->
                        </div>
                        <!-- ./plan content -->


                    {{/plans}}
                    </div>
                    <!-- ./disclosure panel/accordion -->
                </div>
            </div>
            <!-- ./package-detail-container -->
        </div>
        <!-- ./plan-section -->
    </div>
</div>
<!-- packages view - template ends -->

<!-- Template renderer look for attribute data-portal-template-id and linked the
processed template at runtime-->
<div id="package-view-container" data-portal-template-id="package-view-template-
source"></div>
```

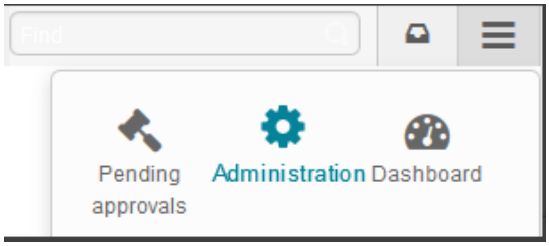
JavaScript

```
/* package details page section - starts */
function onPackageViewLoad() {
    $('#plans-container').on('hidden.bs.collapse', toggleChevron);
    $('#plans-container').on('shown.bs.collapse', toggleChevron);
}
function toggleChevron(e) {
    $(e.target)
        .prev('.plan-container')
        .find("i.indicator")
        .toggleClass('fa-chevron-down fa-chevron-right');
}
/* package details page section -ends */
```

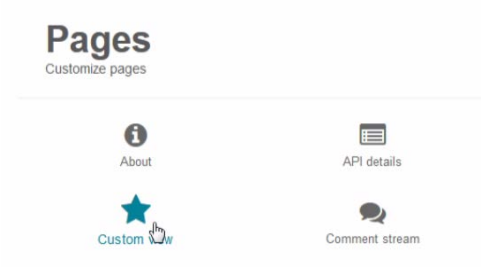
5.7 Customize API Portal header component to enable custom links

This customization allows you to add custom links, as required, in the header panel and load the external work page into API Portal.

1. Log on to API Portal as an administrator.
2. From the user action menu select **Administration**.



3. Click **Create** to create a new configuration set.
4. In the Create modification set dialog box type a name for the view and select a template on which it is based. For example Name: custom and Template: apiportal.
5. Click **Create**.
   The new custom view is created and listed in the Configuration and modification sets page.
6. Click the Activate icon to activate the newly created custom.
7. Click the edit icon to modify the modification set.
8. Click **Custom view** in the Pages section.

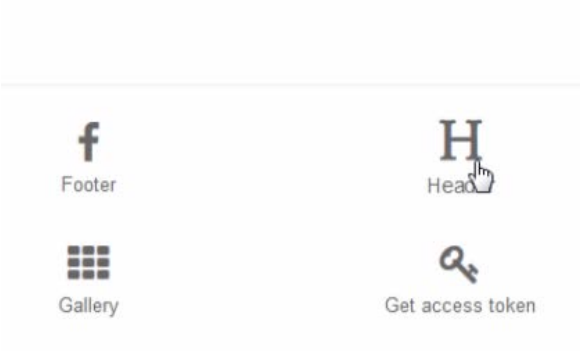


9. Move the highlighted function to the JavaScript section.

```
<!-- 1. Add the below JavaScript functions getParameter and triggerPage
     to the JavaScript section.
-->
<!--
//JavaScript starts here

function getParameter(paramName) {
  var searchString = window.location.search.substring(1),
      i, val, params = searchString.split("&");
  for (i = 0; i < params.length; i++) {
      val = params[i].split("=");
      if (val[0] == paramName) {
        return val[1];
      }
  }
  return null;
};

//Add a entry to the 'urls' for custom page link
function triggerPage() {
  var iframe_props = {
      id: 'customframe', // id of iframe
      /*
        urls 1 and 2 represent website link . These values are passed with query parameter 'pg' in header
```

10. Click the Save icon to save the changes.

11. Navigate to Pages section and click **Header**.



12. Enable the link by uncommenting the section highlighted in the figure

```
32
33          -->
34          <!-- NEW LINK START. Uncomment to add a new custom link-->
35          <!--
36          <div id="customLink" class="navbar-left visible-desktop">
37            <ul class="nav nav-pills navigationBar" role="tabpanel">
38              <li class="navigationItem" id="customview1" role="tab">
39                <a aria-label="customview1" onclick="window.location='/?pg=1#'+getTenantId()+'/customview'">Software AG</a>
40              </li>
41              <li class="navigationItem" id="customview2" role="tab">
42                <a aria-label="customview2" onclick="window.location='/?pg=2#'+getTenantId()+'/customview'">API Cloud</a>
43              </li>
44            </ul>
45          </div>
46          -->
47          <!-- NEW LINK END-->
```

Two new links Software AG and API Cloud are added with query parameters pg=1 and pg=2 respectively. The value of these two parameters is represented in the Javascript as shown

```
14 //Add a entry to the 'urls' for custom page link
15 function triggerPage() {
16     var iframe_props = {
17         id: 'customframe', // id of iframe
18         /*
19           urls 1 and 2 represent website link . These values are passed with query parameter 'pg' in header
20         */
21         urls: { // lookup values(number) and urls to load in iframe
22             '1': 'http://www.softwareag.com',
23             '2': 'http://www.webmethodscloud.com/api/'
24         }
25     };
26     var $iframe = $('#' + iframe_props.id);
27     $iframe.attr("src", iframe_props.urls[getParameter("pg")]);
28 }
```

13. Click Save.

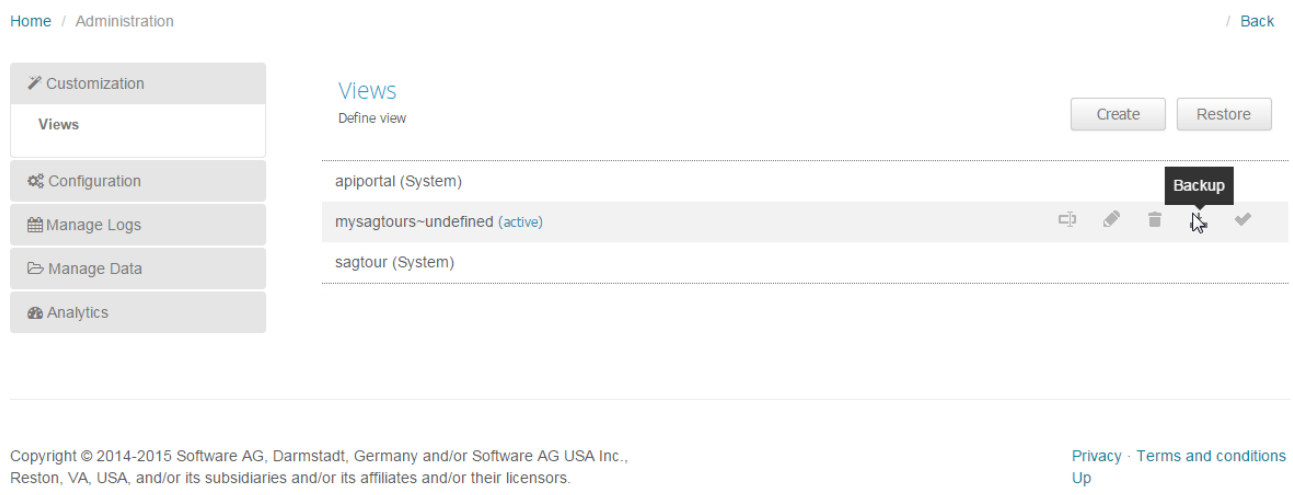
Two new links SoftwareAG and API Cloud are displayed in the Header panel. On clicking the links, you should be redirect to the corresponding pages.

6 Backup and Restore

The views that are created can be backed up and restored. Benefits of backup and restore are:

- To save or preserve the views against system failures.

Allow third party or internal UI experts to build the customized API Portal, take a backup and then restore the view into your system.



You can download the backup of **mysagtours** as shown above.

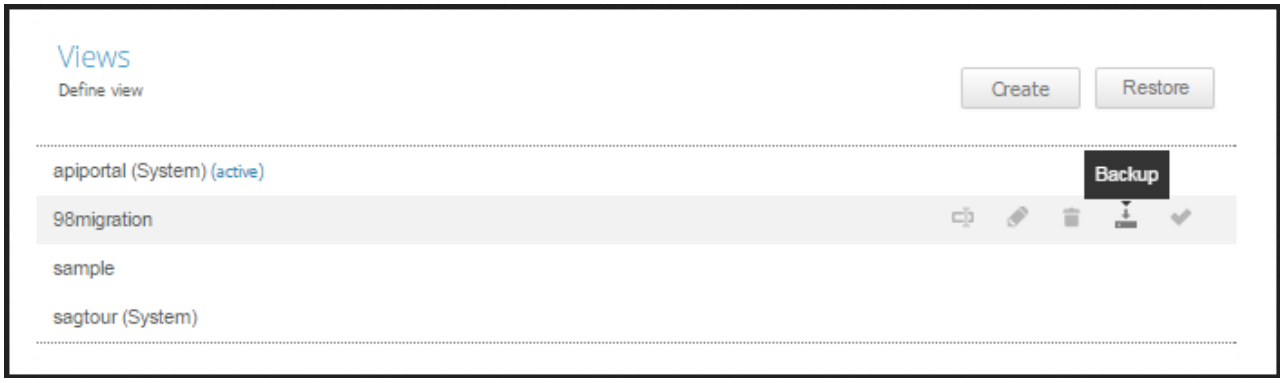
Note:
- The restore does not fail or show any warning when you restore a view with a name same as one of the already existing views.
- Software AG recommends that you do not create a backup of a view from one tenant and restore it in another tenant, though this is possible. If you wish to do so, open the backup archive and modify the tenant id in the file called **ModificationName**. For example, in the **mysagtours** backup, the content in the **ModificationName** file is **default.mysagtours**. Here, default refers to the tenant id. You should replace this with the tenant id in which you wish to restore the backup.

7 Customization Upgrade from API Portal 9.8 to 10.0

Prerequisites:

- You should have an understanding of the basics of API Portal Customization for API Portal 9.8

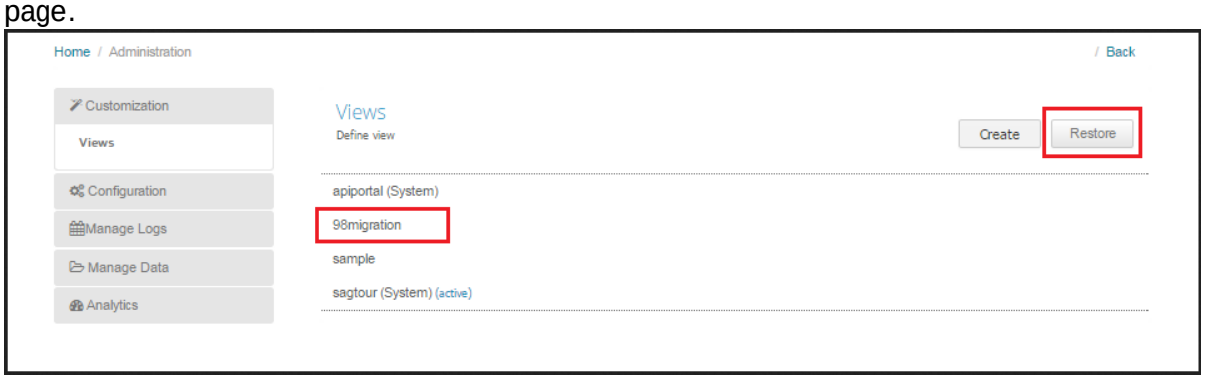
- You should have taken the backup (archive) of the view that you want to migrate from 9.8 to 10.0



To upgrade the custom view do the following:

7.1 Restore the 9.8 backup.

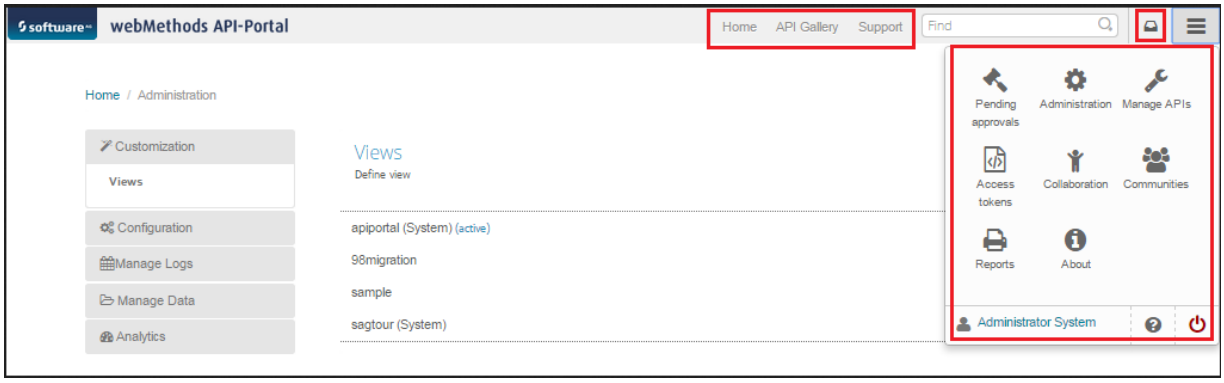
Restore the backup archive. In API Portal 9.12, navigate to **Administration > Customization > Views** page.



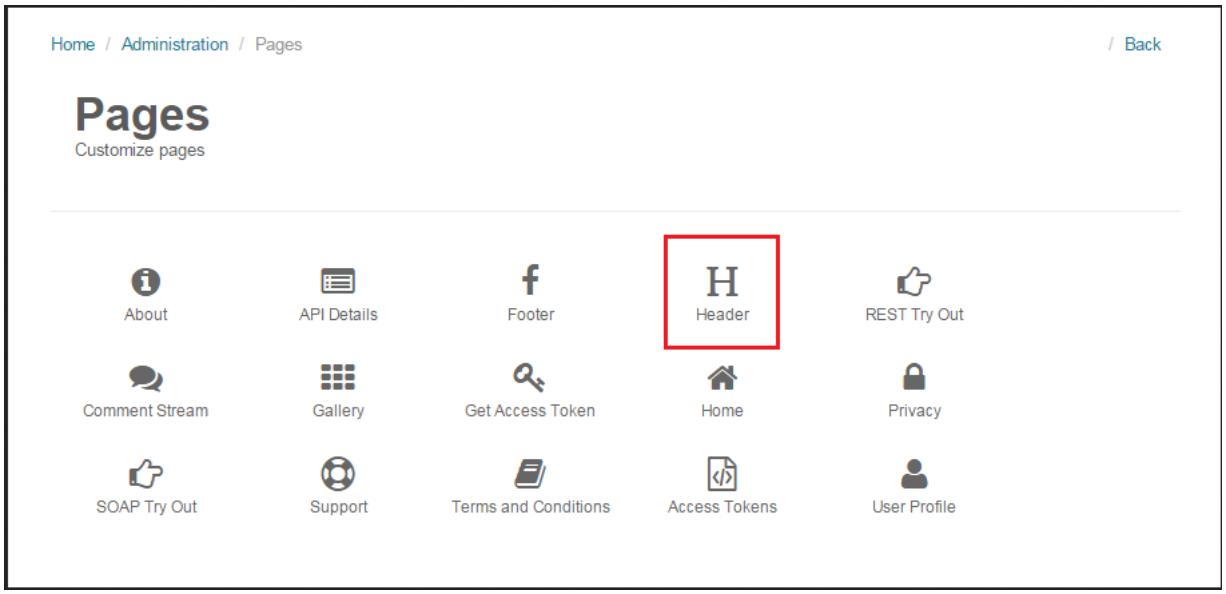
After successful restore, Activate and Edit the view.

7.2 Upgrade the Header section.

From API Portal 9.9, the header section has undergone the following changes:
- Reduced top level navigation items
- Revamp of the user action list
- Notification component



In order to upgrade your custom view's header, edit the view and then click on the **Header** page as shown below.



In the Header Page's HTML section, remove all the elements related to Top Level navigation, search and user action.

Contents to be removed from 9.8 (original template)	Contents to be added in 9.10
9.8 Header Original Template	**9.10 Header Template**

`<div id="virtual-container" class="nav-collapse collapse pull-right" style="display:none;"></div>`
`<!-- Responsive Navbar Part 2: Place all navbar contents you want collapsed withing .navbar-collapse.collapse. -->`
`<div id="api-collapse" class="nav-collapse collapse pull-right">`
`<div id="masthead-topLevelnavigation" class="nav">`
`<!-- TopLevelNavigation component -->`
	`<div id="navigation-components" class="pull-right">`
	`<div id="masthead-topLevelnavigation" class="nav navbar-left visible-desktop"></div>`
	`<div id="globalSearch" class="navbar-left visible-desktop"></div>`
	`<div id="notification-container"`

Contents to be removed from 9.8 (original template)	Contents to be added in 9.10

`</div>`
`<div id="globalSearch" class="navbar-left form-group" style="margin: -2px 10px"></div>`
`<!--<form class="navbar-form navbar-left" role="search">`
`<div class="form-group">`
`<!–<input type="text" class="form-control" placeholder="Search">–>`
`</div>`
`<!–<button type="submit" class="btn btn-inverse" style="margin-right:20px;">Go</button>–>`
`</form>-->`
`<ul class="nav navbar-nav navbar-right">`
`<li class="dropdown pull-right">`
`<div id="userAction" class="dropdown-toggle navbar-left"></div>`
`<!--<a href="#" class="dropdown-toggle" data-toggle="dropdown">Martina Herrera <b class="caret"></b></a>`
`<ul class="dropdown-menu">`
`<li><a href="#"><i class="fa fa-user fa-1"></i> Preference</a></li>`
`<li><a href="api_01.html"><i class="fa fa-sign-out fa-1"></i> Logout</a></li>`
`</ul>-->`
`</li>`
`</ul>`
`</div><!--/.nav-collapse -->`
	`class="navbar-left"></div>`
	`<div id="masthead-useraction" class="navbar-left"></div>`
	`</div>`

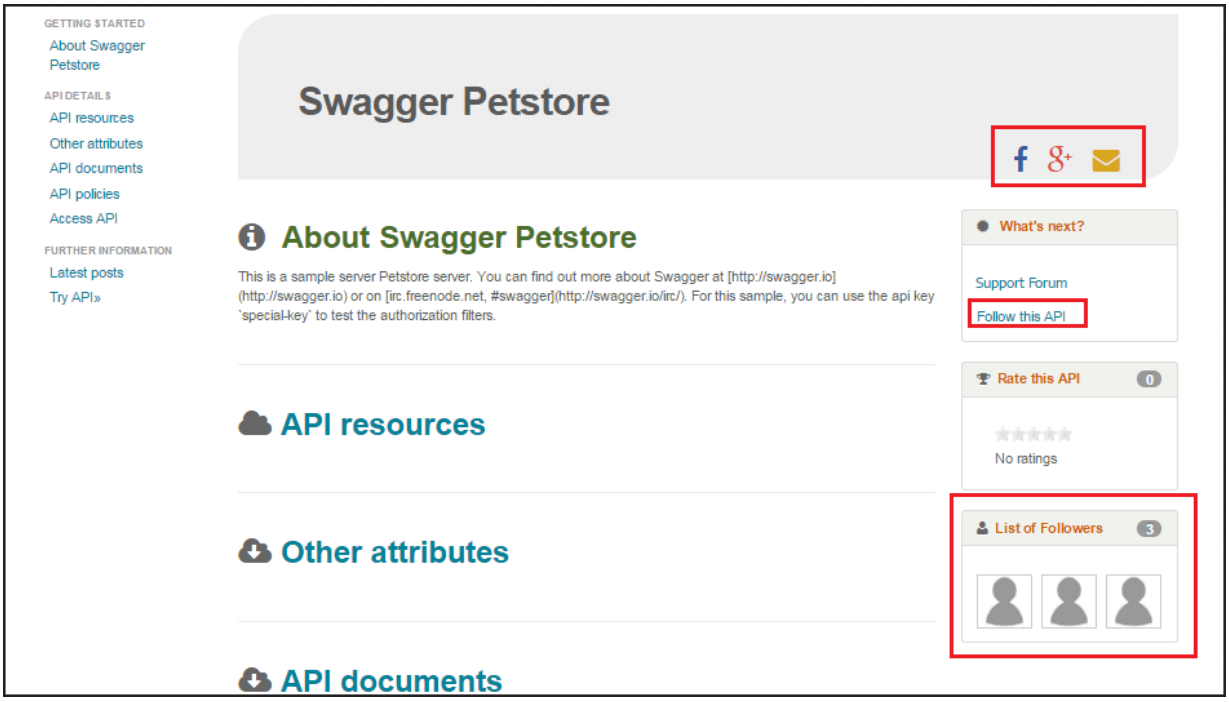
7.2.1 Upgrade the API Details Page.

Note: The changes mentioned in this section are necessary only if you had modified the API Details page in your custom view.

From API Portal 9.9, the **API Details** page has undergone following changes:

- List of Followers component added
- Follow this API component added
- Support Forum component added
- Export API Component added

- Share this API component added
- Background image removed
- Breadcrumb modified
- Associated packages



Since these are new components added to **API Details** page in 9.12, they are not be visible in your custom view. Now, to upgrade the API Details page in your custom view, edit the view and click **API Details** Page.

List of changes to be performed:

#	API Details page changes

1	Fix the **List of Followers** by placing the following content after **Rate API** component.
	`<!-- Rate API -->`
	`<div id="rate-api" ></div>`
	`<!-- List of Followers Panel -->`
	`<div id="followers_panel"></div>`

2	Fix the **Follow this API** by placing the following content after **Access Token** component.
	`<!-- Get Access Token -->`
	`<tr id="api-access-token-row">`
	`<td>`
	`<div id="access-token"></div>`
	`</td>`
	`</tr>`
	`<tr id="api-watch-row">`

#	API Details page changes

	`<td>`
	`<div id="api-watch-container"></div>`
	`</td>`
	`</tr>`

3	Fix the **Support Forum** by replacing the content as shown below.
	`<! --- DELETE the below snippet--->`
	`<tr id="api-support-forum-row">`
	`<td style="border-top:none;">`
	`<div id="support-forum"></div>`
	`</td>`
	`</tr>`
	`<! --- Add the following snippet---><!-- Support Forum -->`
	`<tr id="api-support-forum-row">`
	`<td style="border-top:none;">`
	`<a href="javascript:;" onclick="window.location.href='/#'+window.getTenantId()+'/collaboration'" > ${views.apiSupportForum.supportForum.DBI} </a>`
	`</td>`
	`</tr>`

4	Fix the **Share this API** by placing the following content after **headerherounit** element.
	`<! --- DELETE the below snippet--->`
	`<div id="headerherounit"></div>`
	`<! --- Add the following snippet--->`
	`<div id="headerherounit">`
	`<table><tr><td><div id="api_header_icon"></div></td><td><div><h1 id="api_header_name"></h1></div></td></tr></table>`
	`</div>`
	`<div id="api_header_short_desc"></div>`
	`<div id="share-api"></div>`

5	Fix the **Background image** by replacing the content as shown below.
	`<! --- DELETE the below snippet--->`
	`<div class="hero-unit dashboard-bg">`
	`<! --- Add the following snippet--->`
	`<div class="hero-unit">`

6	Fix the **Breadcrumb** by replacing the content as shown below.
	`<! --- DELETE the below snippet--->`
	`<li class="active"><div id="api_name" style="display: inline-block;"></div></li>`
	`<! --- Add the following snippet--->`
	`<li class="active"><div id="bread_crumb_api_name" style="display: inline-block;"></div></li>>`

7	Fix the **Export API as** by placing the following content after **Follow this API** component.
	`<!-- Follow this API Component -->`
	`<tr id="api-watch-row">`
	`<td> <div id="api-watch-container"> </div> </td>`

#	API Details page changes

	`</tr>`
	
	`<!-- Export API as Component -->`
	`<tr id="api-export-row">`
	`  <td> <div id="api-export-container"></div> </td>`
	`</tr>`

8	In order to view the Associated packages component in the customized configuration, you have to include the following DIV container in the required position. `<div id="associated_domains”> </div>`

8 Customization Upgrade from API Portal 9.9 to 10.0

Prerequisites:

- You should have an understanding of the basics of API Portal Customization for API Portal 9.9

- You should have taken the backup (archive) of the view that you want to migrate from 9.9 to 10.0

8.1 Upgrade the API Details Page

Note: The changes mentioned in this section are necessary only if you had modified the API Details page in your custom view.

The **API Details** page of the API Portal 9.12 has undergone following changes:

- Export API component added
- Associated packages

Since this are the new components added to **API Details** page in 9.12, they are not be visible in your custom view. Now, to upgrade the API Details page in your custom view, edit your custom view and click **API Details** Page.

List of changes to be performed:

#	API Details page changes

1	Fix the **Export API as** by placing the following content after **Follow this API** component.
	`<!-- Follow this API Component -->`
	`<tr id="api-watch-row">`
	`  <td> <div id="api-watch-container"> </div> </td>`
	`</tr>`
	
	`<!-- Export API as Component -->`
	`<tr id="api-export-row">`
	`  <td> <div id="api-export-container"></div> </td>`
	`</tr>`

2	In order to view the Associated packages component in the customized configuration, you have to include the following DIV container in the required position. `<div id="associated_domains”> </div>`

The **API Details** page of the API Portal 10.0 has undergone following changes:

- Download SDK client

List of changes to be performed:

#	API Details page changes

1	Fix the Download SDK as by placing the following content after **Download SDK component**.
	`<!-- Download  SDK component -->`
	`<tr id="api-client-sdk-row">`
	`  <td> <div id="api-client-sdk-container"></div> </td>`
	`</tr>`