

HCL Digital Experience Integration with HCL Leap for Developers

HCLSoftware U



Creating a new generation of experts

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Introduction

This hands-on lab guides you in understanding how HCL Leap may integrate with the HCL Digital Experience (DX) platform as a developer.



Gene Hayes, Developer, based in Chicago (USA)

Gene uses the HCL Leap integration sample to understand how he may customize it to match other business needs.

Prerequisites

1. Completion of [HDX-INTRO](#), [HDX-BUS-100](#) (including the Woodburn Stores lab) courses and the [HDX-INT-BU](#) DX Integration with HCL Leap for Business Users lesson, as this gives you a good idea on how Leap may be used in DX sites.
2. A DX server with DX Solution Modules <https://hclsofy.com/catalog/dx-solution-modules> deployed of HCL SoFy, as this gives you access to both DX & Leap.
3. Access to download the Lab Resources:
In the same place where you have found this lab, you will find corresponding resources which you may download and unzip in your Desktop. This helps you to run the lab more easily, and you may later replace them by your own ones.

You will be using the following user IDs and passwords:

Purpose	User	Password
SoFy Login	Your official email id	Your password
SoFy Solution Console Login	sol-admin	pass
DX Login Administrator (Harry Pappus)	ghayes	HCL-Dem0

Lab Overview

In this lab, there are three different parts where you learn in each a different way to integrate HCL Leap in your site. These are shortly introduced now.

Part 1: Discover Leap Embedded Application

As Gene, you will first discover how the integration of Leap applications is managed with a Leap embedded application.

Why not leave a review?
ENTER DESCRIPTION OR LEAVE BLANK TO DISABLE

Note: Embedded Leap Applications are not displayed in Edit Mode

Content Template: Leap Application - CT
Title: Write a review
Description: Write a product review

Configuration

Application: Product Review (ba4900aa-4d4b-4892-8bb5-80b96aea7118)
Form: Product Review (F_ProductReview)

Presentation Style

Design: Leap Application - Accordion - HC
Custom CSS:

Part 2: Discover Leap Digital Data Connector Application

You learn how you may more easily integrate and customize a list of data from your Leap applications, using the Digital Data Connector (DDC).

Reviews (11)

Feb 10, 2023 ★★★★★ Love it! Sara Botello - Henley on Thames, GB
Great dress.

Jan 26, 2023 ★★★★★ Wonderful Florence - Henley on Thames, GB
Excellent dress

Jan 26, 2023 ★★★★★ Awesome Dougal - Henley on Thames, GB
Lovely dress

Jan 26, 2023 ★★★★★ Fantastic Brian - Henley on Thames, GB
Love it!!!

Jan 19, 2023 ★★★★★ I love this dress Mandy Zhang - Saint Augustine, US
It fits nicely

1 / 3

Content Template: Leap DDC - CT
Title: Reviews
Description: This component displays the reviews for the currently displayed product (id).

Configuration

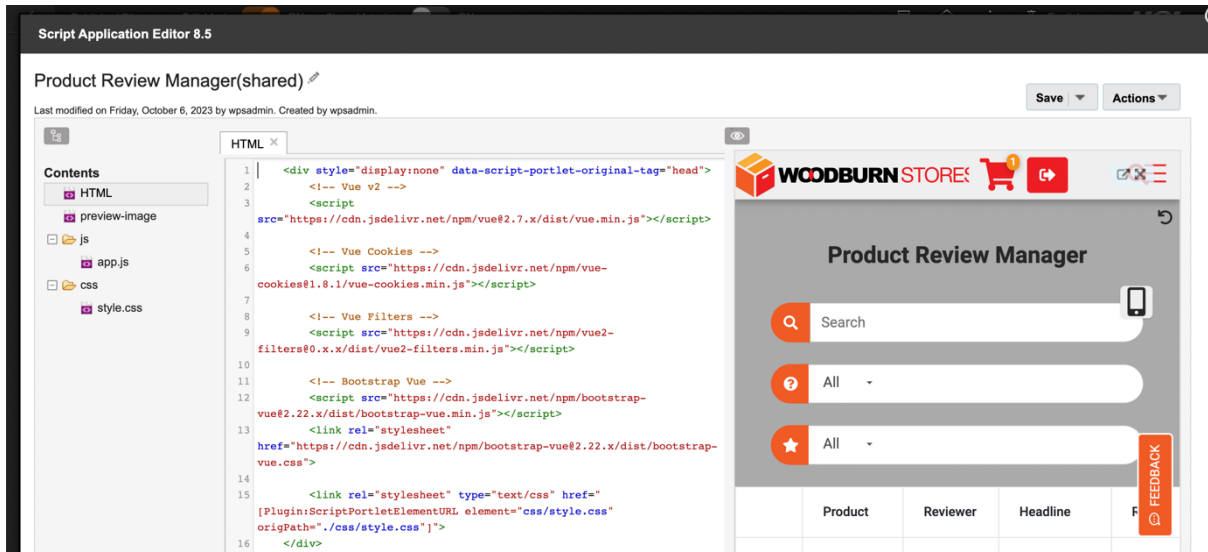
Application: Product Review (ba4900aa-4d4b-4892-8bb5-80b96aea7118)
Form: Product Review (F_ProductReview)

Settings

Sort By: lastUpdated
Sort Order: DESC
Other Parameters:
List Presentation: Product Reviews - LP
Data Source: Product-ID-specific Approved Leap submissions - HC

Part 3: Discover Leap Script Application

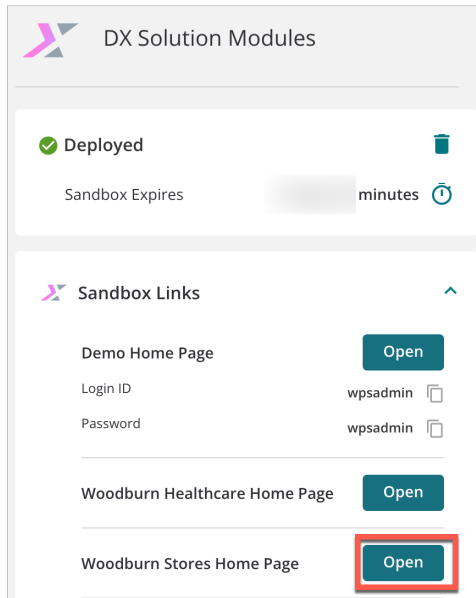
And you may learn how to use Leap data and functionality in a Leap Script Application.



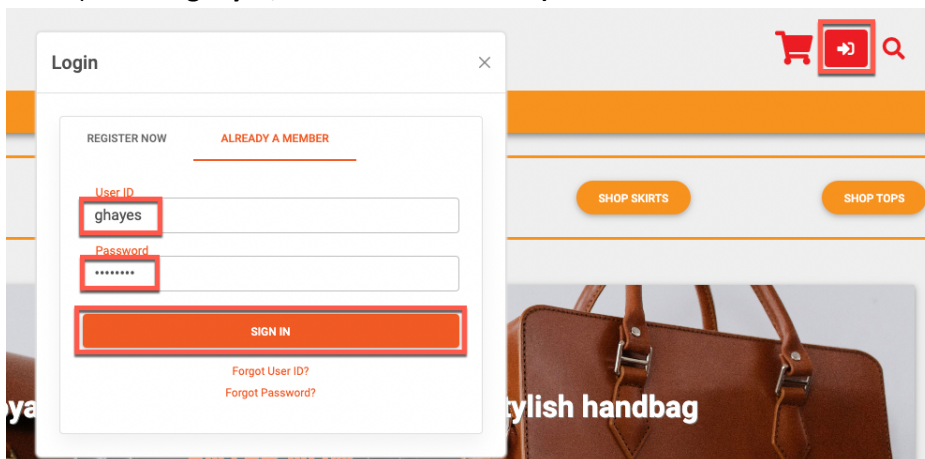
Part 1: Discover Embedded Leap Application

As a developer, Gene, you will first discover how the integration of Leap is managed with a Leap embedded application.

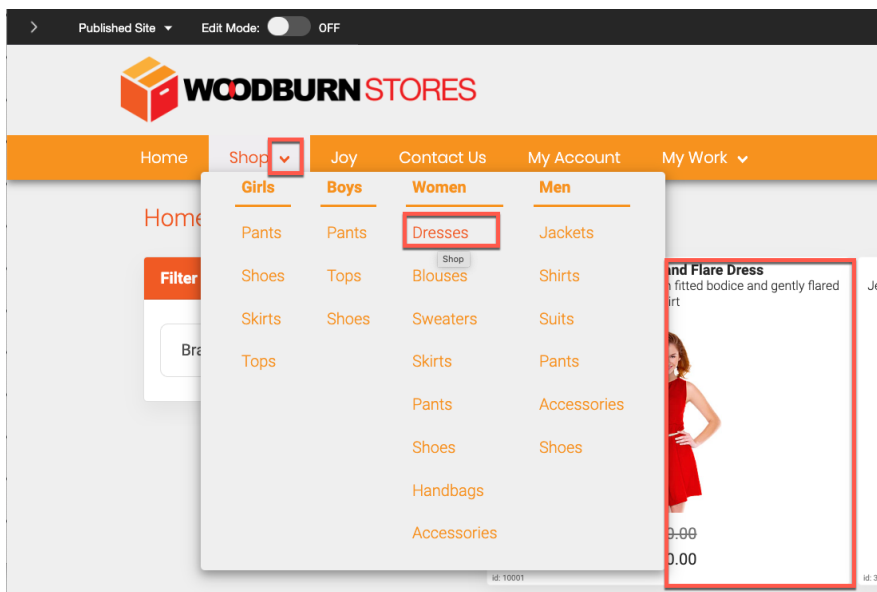
1. From your SoFy solution console, go to **DX Solution Modules**, open the Woodburn Store site. Under Sandbox Links, click **Open** for the **Woodburn Stores Home Page**.



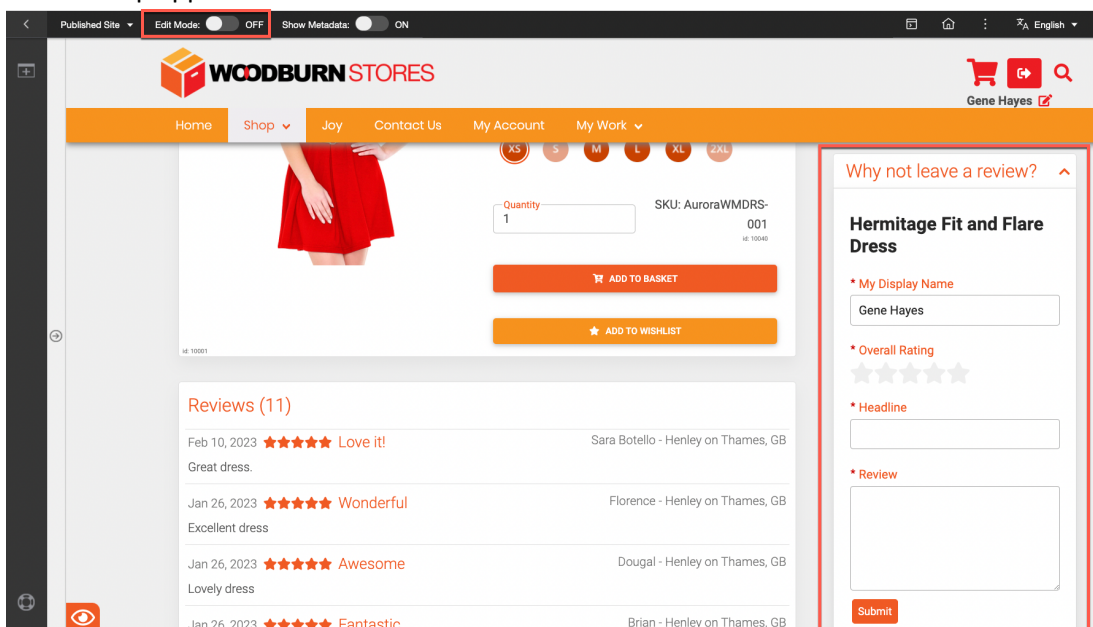
2. Then log on to the DX server as Gene Hayes. Click **LOG-IN** and then use the credentials of Gene (User ID: **ghayes**, Password: **HCL-Dem0**) and click **LOG-IN**.



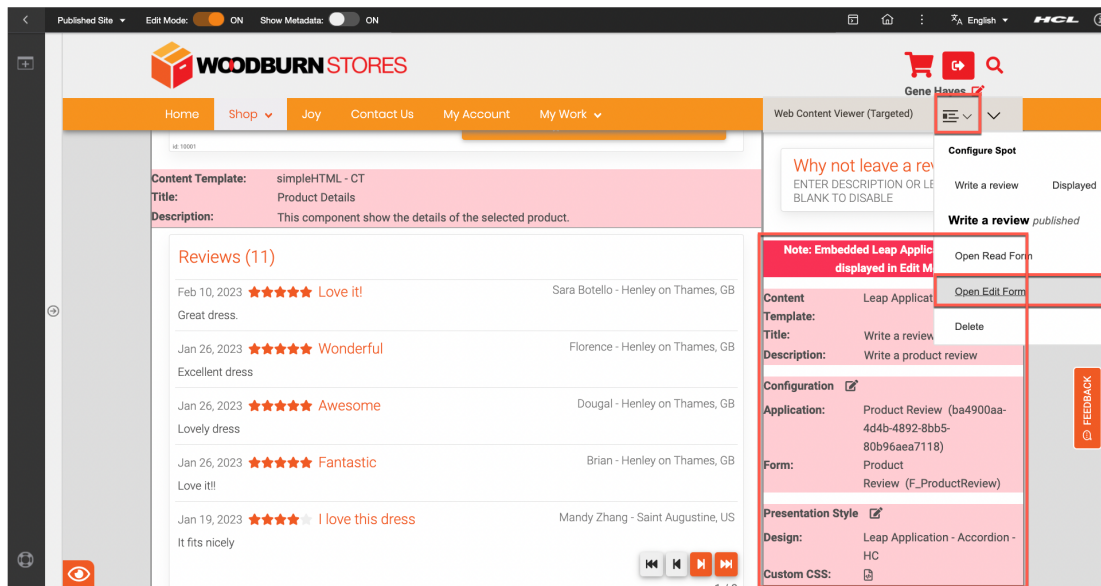
- Then select a product that has reviews. This is the case for Hermitage Fit and Flare Dress, under women dresses. Under **Shop**, click Women **Dresses** and then the **Hermitage Fit and Flare Dress**.



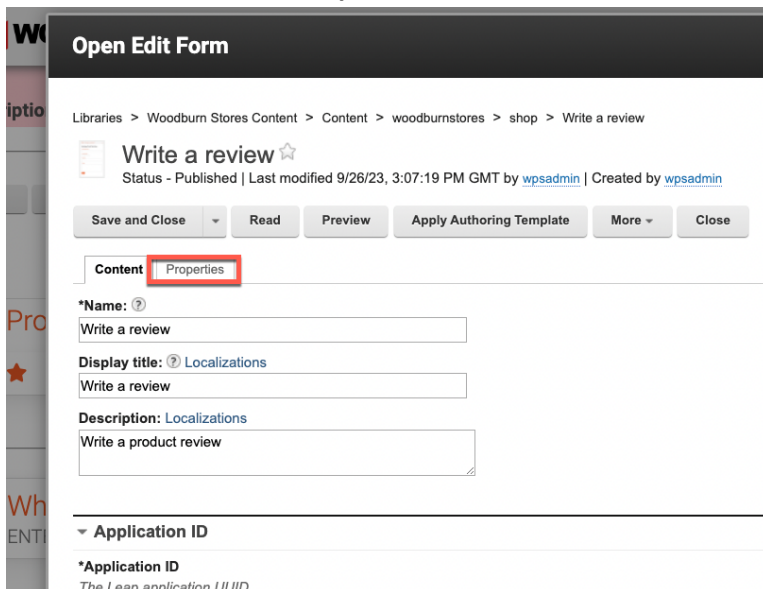
- Then scroll down and you'll see the Why not leave a review page component that integrates an HCL Leap application. Enable the **Edit Mode**.



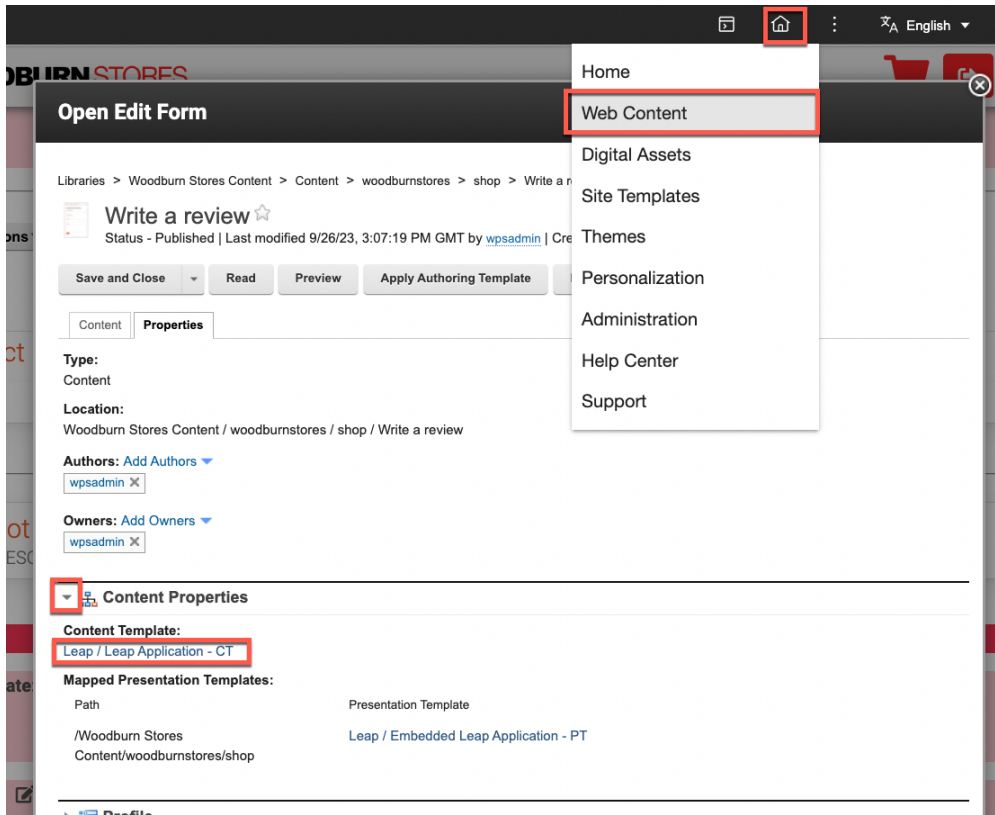
- You now see the details on its configuration. It is managed by a Write a review content item. Open this content to see all elements. Open the display content menu and click **Open Edit Form**.



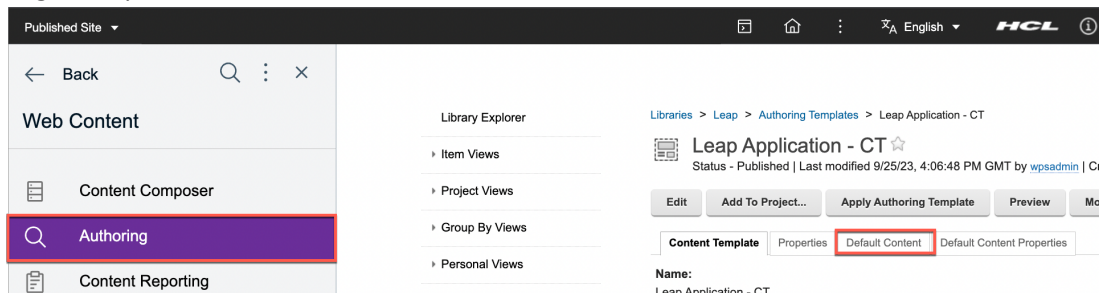
- Here you see the different elements that manage the selection of the Leap application form, with its Application and Form ID and more parameters. Now see what Content Template has been used for this. Click **Properties**.



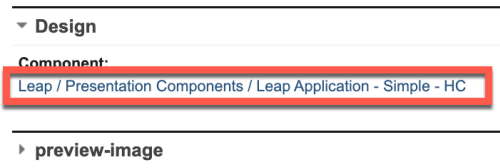
- Then open the **Content Properties** and you see that this content is based on the **Leap Application – CT Content Template** in the **Leap** web content library. Open it now in Web Content Authoring. Open the applications menu and click **Web Content**. If you cannot directly open the applications menu, close the content first.



- Open the Web Content section and click **Authoring**. Find the Leap library, click **Leap – Authoring Templates – Leap Application - CT** to open it and then the **Default Content** tab, so see the different elements it is using. It has the application and form ID and other parameters needed for the Leap embedded JavaScript API call. In addition, it also has custom CSS to be used, information to find this easily in search results, some additional content elements, like Display title, description and image and the preview-image for the Page Component.



- And it uses a Design reference component element that selects how to display this content and is set by default to the HTML Component **Leap / Presentation Components / Leap Application - Simple – HC**. Click this to see more details on this Simple design.



- Here you see the simple design HTML markup that puts an inplace editable display title and description on the top, with options to edit them easily, and then component to display the Leap application. Open this. Click [**Component name="leap/general/embed leap application - hc"**].

<> Leap Application - Simple - HC ☆
Status - Published | Last modified 9/1/23, 1:05:45 PM GMT by [wpsadmin](#) | Created by [wpsadmin](#)

Edit Add To Project... Preview Change to Draft More ▾ Close

HTML Properties

Name:
 Leap Application - Simple - HC

Display title:
 Leap Application - Simple - HC

Description:
 None

<> **HTML Element**

HTML Markup:
Export

```

<div id="[Plugin:ScriptPortletNamespace]" class="p-4">
  [IfNotEditMode]
  [Plugin:NotEquals text1="[Element key="displayTitle"]" text2=""]
  <div class="py-2 fs-4">
    <div class="display-4 fs-4 text-primary">[Element key="displayTitle"]</div>

    [Plugin:NotEquals text1="[Element key="displayDescription"]" text2=""]
    <div class="display-4 fs-6 text-muted">[Element key="displayDescription"]</div>
  [/Plugin:NotEquals]
</div>
[/Plugin:NotEquals]
[/IfNotEditMode]


[IfEditMode]
<div class="py-2 fs-4">
  <div class="display-4 fs-4 text-primary">
    [EditableElement key="displayTitle" format="div"]
    [Element key="displayTitle" ifempty="ENTER TITLE OR LEAVE BLANK TO DISABLE"]
  [/EditableElement]
  </div>

  <div class="display-4 fs-6 text-muted">
    [EditableElement key="displayDescription" format="div"]
    [Element key="displayDescription" ifempty="ENTER DESCRIPTION OR LEAVE BLANK TO DISABLE"]
  [/EditableElement]
  </div>
</div>
[/IfEditMode]

<div class="n-0">
  [Component name="leap/general/embed leap application - hc"]
</div>
</div>
    
```


11. This describes your default way to show the Leap application, used for most of the other designs, here configured to the basic one. This makes it easy to update it for all them. Open it. Click **[Component name="leap/general/embed leap application basic - hc"]**.

Libraries > Leap > Components > General > Embed Leap Application - HC

 **Embed Leap Application - HC** ☆
Status - Published | Last modified 9/26/23, 3:20:05 PM GMT by [wpsadmin](#) | Created by [wpsadmin](#)


[Edit](#) [Add To Project...](#) [Preview](#) [Change to Draft](#) [More ▾](#) [Close](#)

HTML Properties

Name:
Embed Leap Application - HC

Display title:
Embed Leap Application - HC

Description:
None

 **HTML Element**

HTML Markup:

[Export](#)

[Component name="leap/general/embed leap application basic - hc"]

12. You notice the header management, to show a loading of the form when viewing and a message that embedded Leap application are not displayed in edit mode. And then the use of the HCL Leap embedded JavaScript with all the parameters managed by the content, like the Leap application and form ID. More details on the Leap Embedded API are here: https://help.hcltechsw.com/Leap/9.3/ref_embedding_api.html. Now have a look at how this triggered with the corresponding presentation template of your Leap Application – CT content template. Open that content template again. Under the **Open Items**, click **Leap Application – CT**.

Open Items

- Leap Application ... X
- Leap Application ... X
- Embed Leap Applic... X
- Embed Leap Applic... X

Close: All | Others
New ▾

Open Views

- Library Explorer

Preferences

Embed Leap Application BASIC - HC

Description:
None

HTML Element

HTML Markup:

```
<div id="[Plugin:ScriptPortletNamespace]leapDiv" class="w-100">
  [Plugin:NotEquals text1="[Element context='current' type='content' key='appld']" text2=""]
  <div class="card shadow-1-strong m-4">
    <div class="card-body text-center m-4">
      [IfEditMode]
      <strong>Note: Embedded Leap Applications are not displayed in Edit Mode</strong>
      [IfEditMode]
      [IfNotEditMode]
      <div class="spinner-border spotlight-text-primary" style="width: 5rem; height: 5rem" role="status">
        <span class="visually-hidden">Loading...</span>
      </div>
      [IfNotEditMode]
    </div>
  </div>
[Plugin:NotEquals]
</div>
```

```
<script src="/apps/api/leap.js" data-leap-config="{overwriteExistingDojoConfig: true}"></script>

<script>
// console.log(### Embed Leap Application appld: [Element context='current' type='content' key='appld'])
Leap.onReady = function() {
  let prefSecMod = 'anon';

  [Plugin:NotEquals text1="[Plugin:EvaluateEL value='${wp.user.uid}']" text2=""]
  prefSecMod = 'secure';
[Plugin:NotEquals]

  let launchParams = {
    'appld': '[Element context='current' type='content' key='appld']',
    'formId': '[Element context='current' type='content' key='formId']',
    'locale': '[Element context='current' type='content' key='locale']',
    'targetId': '[Plugin:ScriptPortletNamespace]leapDiv',
    [Plugin:NotEquals text1="[Plugin:RenderParam key='{leapApp}submissionId'" text2=""]
    'prefSecMode': prefSecMod + '&id=[Plugin:RenderParam key='{leapApp}submissionId']'
  [Plugin:NotEquals]
    [Plugin:Equals text1="[Plugin:RenderParam key='{leapApp}submissionId'" text2=""]
    'prefSecMode': prefSecMod
  [Plugin:Equals]
  };
};
```

13. Here you can easily find its corresponding presentation template. Open it. Click **Content Template** and then under Default Presentation Template **Leap / Embedded Leap Application - PT**.

Libraries > Leap > Authoring Templates > Leap Application - CT

Leap Application - CT ☆
 Status - Published | Last modified 9/25/23, 4:06:48 PM GMT by wpsadmin | Created by wpsadmin

Edit Add To Project... Preview Change to Draft More ▾ Close

Content Template Properties Default Content Default Content Properties

Name:
Leap Application - CT

Display title:
Leap Application - CT

Description:
Use this template to allow business users to configure what Leap application to show embedded.

Item Properties

Rendering type:
This is a content rendering template. To create a File Resource or Link rendering template, click manage eler then select Resource or Link as the rendering type.

Default Presentation Template:
Leap / Embedded Leap Application - PT

Summary Presentation Template:
...

14. This first calls the Leap Application CSS HTML Component that manages the overall styling of the Leap applications. Then it calls the custom CSS from the content, defined in the Content Template. Is uses the selected design component from the content. And below you see the options to show the metadata and configure.

Libraries > Leap > Presentation Templates > Embedded Leap Application - PT

Embedded Leap Application - PT ☆
 Status - Published | Last modified 9/1/23, 1:01:14 PM GMT by wpsadmin | Created by wpsadmin

Edit Add To Project... Preview Change to Draft More ▾ Close

Presentation Template Properties

Name:
Embedded Leap Application - PT

Display title:
Embedded Leap Application - PT

Description:
Presentation Template to display a Leap Application (form)

Presentation Template Options

Export

```
[Component name="leap/general/leap application css - hc"]
[Element context="current" type="content" key="customCSS"]

[Element context="current" type="content" key="design"]

[IfEditMode]
<style>
```

15. You see the configuration option. Open that. Click **[Component name="leap/general/leap application selector - hc"]**.

```
<div class="collapse2 mt-3 meta-data">
  <div class="properties-section d-flex flex-column w-100">
    <div class="d-flex flex-row pb-2">
      <strong>Configuration</strong>
      <span class="ps-3" >[Component name="leap/general/leap application selector - hc"]</span>
    </div>
  </div>
```

16. This component allows your users to view all the published applications, select one and update its selection in the configuration content, using REST API calls.

17. Then go back to your presentation template and you see the place where you allow the users to select from the available styles. Have a closer look now. Click **[Component name="leap/general/leap presentation style selector - mc"]**.

```
<div class="collapse2 mt-3 meta-data">
  <div class="properties-section d-flex flex-column w-100">
    <div class="d-flex flex-row pb-2">
      <strong>Presentation Style</strong>
      <span class="ps-3" >[Component name="leap/general/leap presentation style selector - mc"]</span>
    </div>
  </div>
```

18. As you can see, this is a menu component that uses the presentation styles content that is based on the Leap / Leap Presentation Style – CT content template and has all options stored in this Leap library under the site area Leap Presentation Styles. You may want to look at the List Presentation Markup to see how these contents are displayed, can be selected and then stored into the Leap application content. Then have a look at those contents. First go to that site area. Click **Leap**.

Libraries > **Leap** > Components > General > Leap Presentation Style Selector - MC

Leap Presentation Style Selector - MC ☆
 Status - Published | Last modified 7/4/23, 8:50:40 AM GMT by wpsadmin | Created by wpsadmin

Edit Add To Project... Preview Change to Draft More ▾ Close

Menu Properties

Name:
Leap Presentation Style Selector - MC

Display title:
Leap Presentation Style Selector - MC

Description:
None

▸ **Menu Criteria**

▾ **Authoring Templates**

Search for content items that use these authoring templates:
 /Leap/Leap Presentation Style - CT

▸ **Further options**

▾ **Location**

Libraries Site Areas

For all selected and included site areas:

Include ancestors
 Include descendants

Matching Content associated Site Areas:
 /Leap/Leap Presentation Styles

19. Then click **Content – Leap Presentation Styles**. Here you all the options. Open one of them to see what is stored in it. Click for example **50-50 Image**.

Libraries > Leap > **Content > Leap Presentation Styles**


New ▾ Generate ▾ Read Edit Delete Preview More ▾

Filter

<input type="checkbox"/>	Type	Title	Status	Last Saved
<input type="checkbox"/>		50-50 Content Band	Published	7/4/23, 9:52:49 AM GMT
<input type="checkbox"/>		50-50 Image	Published	Yesterday 12:53:11 PM GMT
<input type="checkbox"/>		Accordion	Published	7/4/23, 9:51:41 AM GMT
<input type="checkbox"/>		Card	Published	7/4/23, 9:53:44 AM GMT
<input type="checkbox"/>		Modal Window	Published	7/4/23, 9:48:14 AM GMT
<input type="checkbox"/>		Simple	Published	7/4/23, 9:50:28 AM GMT
<input type="checkbox"/>		Data (Responses)	Published	7/4/23, 9:44:03 AM GMT
<input type="checkbox"/>		Slide Out	Published	7/25/23, 11:44:19 AM GMT

20. Here you see its title and image to show in the menu as well as the specific presentation component to use. So, if you want to add other presentations, create the presentation component and a content here to describes and points to it.

[Libraries](#) > [Leap](#) > [Content](#) > [Leap Presentation Styles](#) > 50-50 Image

 **50-50 Image** ☆
Status - Published | Last modified Yesterday 12:53:11 PM GMT by [wpsadmin](#) | Create

- Edit
- Add To Project...
- Preview
- Link
- More ▾
- Close

Content | Properties


Name:
50-50 Image
Display title:
50-50 Image
Description:
None

▼ **Title**

Title
50-50 Image

▼ **Image**

Image:



50-50 Image.png

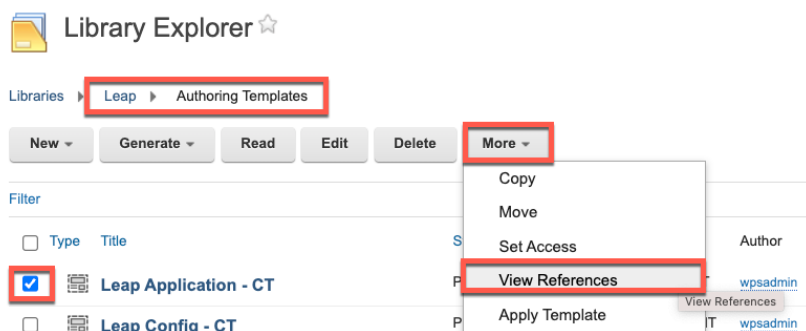
▶ **Image Attributes**

▶ **Renditions**

▼ **Design**

Component:
[Leap / Presentation Components / Leap Application - 50-50 Image - HC](#)

21. If you are looking for more examples of the Leap Application – CT Content Template, go to **Authoring Templates**, select your **Leap Application – CT Content Template** – open **More** and click **View References**.



You have successfully discovered how to embed an HCL Leap application using the Leap embedded JavaScript API and allow business users to select them easily with the right presentation.

Part 2: Discover Leap Digital Data Connector Application

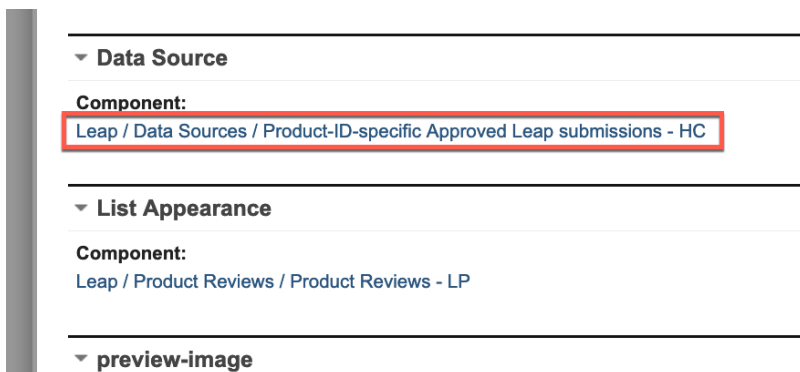
Learn how you may more easily integrate and customize a list of data from your Leap applications, using the Digital Data Connector (DDC).

1. This was for example used in the Shop page with the Review page component. In the Business User lab in part 2 you had a quick view on this. Go to that Shop page. Click **Shop** and **Dresses** under **Women**, select the **Hermitage Fit and Flare Dress**, switch on **Edit Mode** on and check the configuration again. You see that the Reviews page component uses the Leap DDC – CT Content Template with the right configuration and settings. It shows the list in the last updated, in descending order, uses the Products Review list presentation and Product-ID-specific Approved Leap submissions – HC as data source. Then open the content menu and click **Open Read Form** to look at the details of this content.

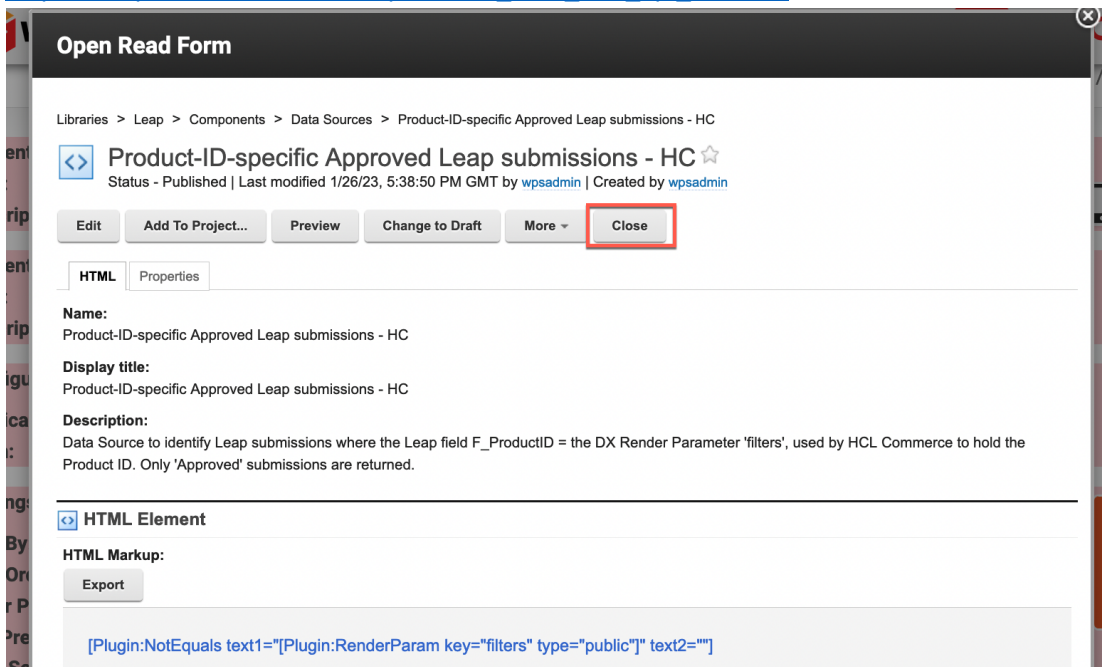
The screenshot displays a web editor interface for a product page. At the top, there's a navigation bar with 'Shop' highlighted. Below it, a 'Web Content Viewer (Targeted)' component shows a list of 11 reviews. The reviews are sorted by date in descending order. A 'Configure Spot' menu is open over the reviews, with 'Open Read Form' selected. Below the reviews, a configuration panel is visible, detailing the component's settings.

Content Template:	Leap DDC - CT
Title:	Reviews
Description:	This component displays the reviews for the currently displayed product (id).
Configuration	
Application:	Product Review (ba4900aa-4d4b-4892-8bb5-80b96aea7118)
Form:	Product Review (F_ProductReview)
Settings	
Sort By:	lastUpdated
Sort Order:	DESC
Other Parameters:	
List Presentation:	Product Reviews - LP
Data Source:	Product-ID-specific Approved Leap submissions - HC

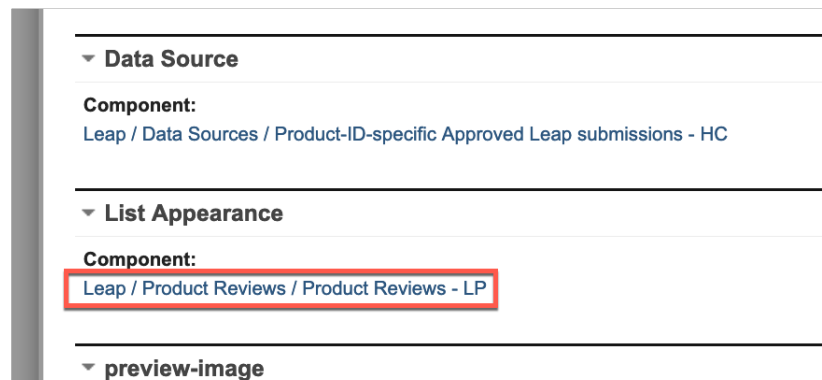
- Here you can easily access the data source and list appearance components. First have a look at how the data source is created. Click **Product-ID-specific Approved Leap submissions – HC**.



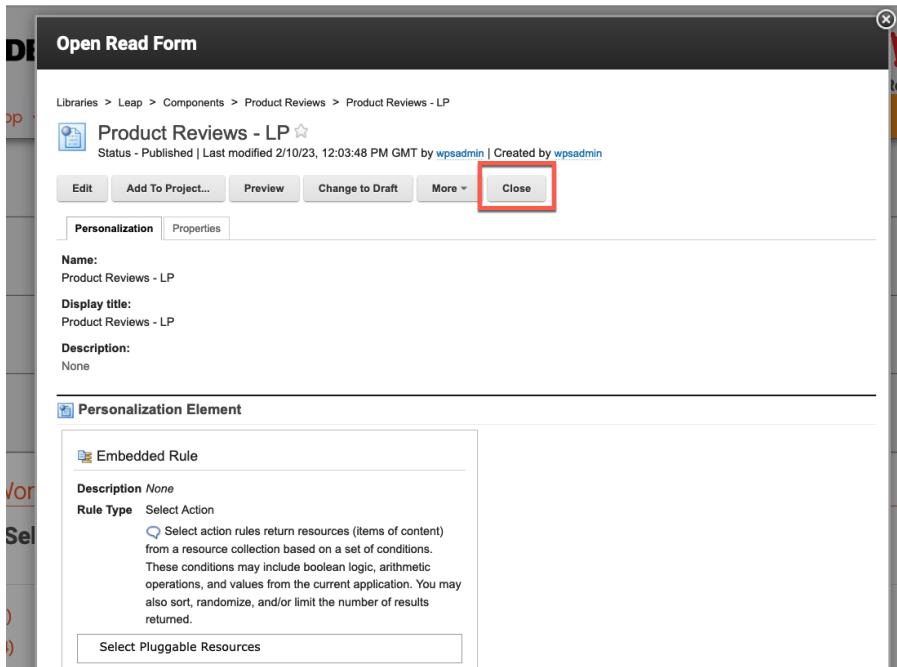
- Have a look at the HTML Markup. It uses the Leap List Data access REST API, detailed in https://help.hcltechsw.com/Leap/9.3/ref_data_rest_api_list.html. Then close it. Click **Close**.



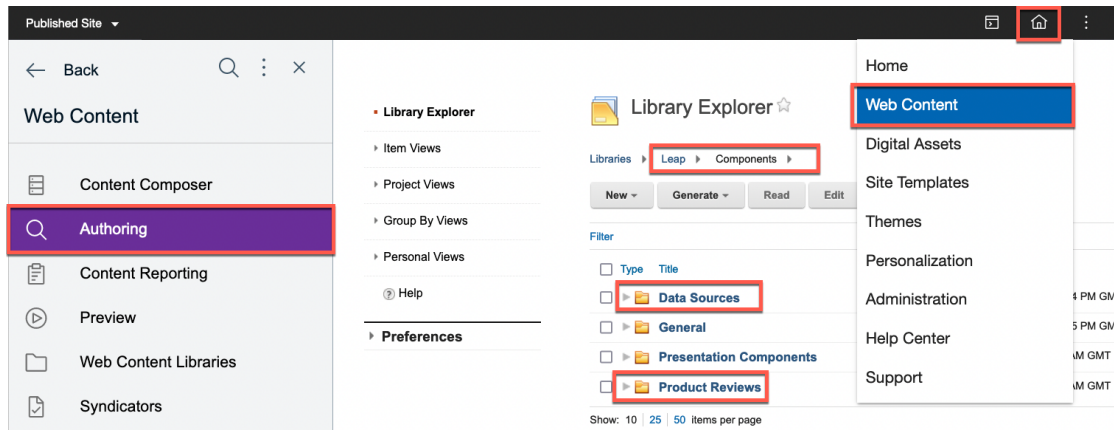
- And then open the list appearance. Click **Products Review**.



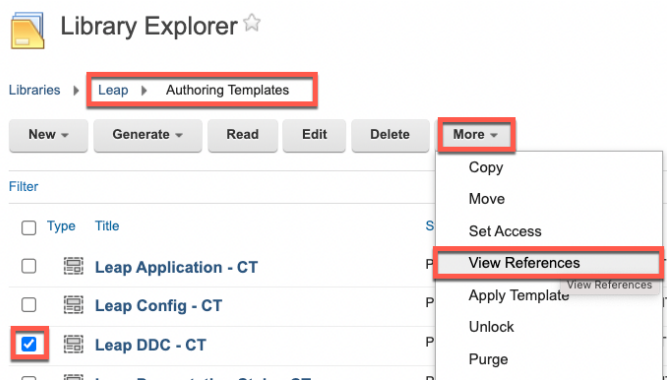
- This is the DDC Personalization Component, configured with the pluggable resources. Have a look at the List Presentation Markup. You will see it uses the Leap Data access REST APIs, described in https://help.hcltechsw.com/Leap/9.3/ref_data_access_rest_api.html. Then close it again. Click **Close**.



- If you go to the **Web Content – Authoring**, in the **Leap** web content library under the **Components**, you will find other **Data Sources** and under **Product Reviews** another List Presentation. These are used for other Digital Data Connector configurations with HCL Leap.



7. And to find more examples of use of this Leap DDC – CT Content Template, go to **Leap – Authoring Templates**, select the template, click **More** and **View References**.

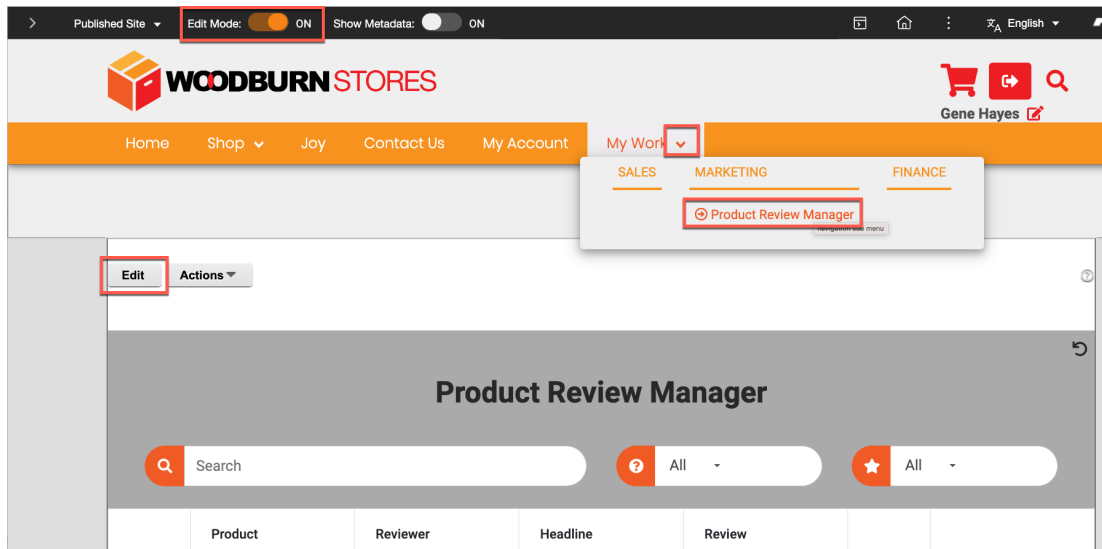


Congratulations. You have successfully discovered how the Digital Data Connector was used to manage lists of data from HCL Leap in DX.

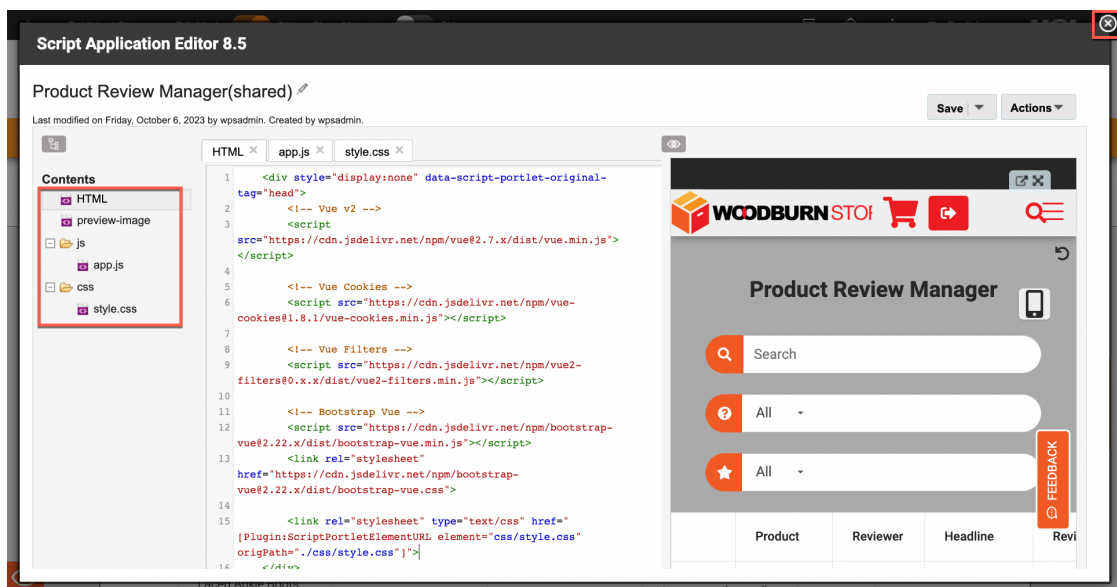
Part 3: Discover Leap Script Application

Learn how to use Leap data and functionality in a Leap Script Application.

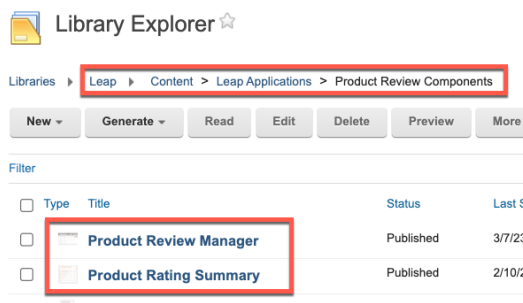
1. First look at the Leap Script Application example that is provided in the Woodburn Stores site. Open **My Work**, and under **MARKETING**, open the **Product Review Manager** page. Try this out again, if you have not done this with the Business User lab and then switch the edit mode on. Then click **Edit**.



2. You can see this is a View.js portlet that manages its design in the HTML content, the logic in the app.js and the look and feel in the style.css (empty, as defined by the DX theme). Have a look around. Then close it.



- If you go to the **Web Content - Authoring** again, you will under the **Leap** web content library, **Content – Leap Applications – Product Review Components** this and another Script Application example. Feel free to learn from these and copy them and make any changes.



You have successfully discovered how to integrate HCL Leap data in DX using Script Applications.

Conclusion

Using this lab tutorial, you have learn how to integrate HCL Leap applications, using the Embedded JavaScript API with a configurable content. You also learn different ways to integrate HCL Leap data in DX, using the Digital Data Connector and a Script Application.

You should now be able to create your own integrations.

Resources

Refer to the following resources to learn more:

HCL Digital Experience Home - <https://hclsw.co/dx>

HCL Digital Experience on HCL Solutions Factory (SoFy) - <https://hclsofy.com/>

HCL Software - <https://hclsw.co/software>

HCL Product Support - <https://hclsw.co/product-support>

HCL DX Product Documentation - <https://hclsw.co/dx-product-documentation>

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HCL DX Product Ideas - <https://hclsw.co/dx-ideas>

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HCL DX Did You Know? Videos - <https://hclsw.co/dx-dyk-videos>

HCL DX GitHub - <https://hclsw.co/dx-github>

HCL DX Web Developer Toolkit - <https://github.com/HCL-TECH-SOFTWARE/WebDevToolkitForDx>

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