‹epam›

Work Instruction

EPAM & CONTENTSTACK SALESFORCE COMPOSABLE COMMERCE ACCELERATOR

MACH

Contents

Instruction

Prerequisites

- Node.js 18+ and npm 9+.

Generate the Project

More details please see [here](#)

1. Run `npx @salesforce/pwa-kit-create-app@latest --preset retail-react-app-demo`
2. The new project will be generated in the `retail-react-app-demo` directory
3. Go to `retail-react-app-demo` directory, create the `.npmrc` file in the project root and insert the code above into the newly created `.npmrc`
4. Run `npm i @epmc-mach/accelarator`
5. Go to the `package.json` and modify `ccExtensibility` like this:

   package.json

   ```
   "ccExtensibility": {
       "extends": "@epmc-mach/accelarator",
       "overridesDir": "overrides"
     },
   ```

   More about Template Extensibility please see [here](#)

More details about how to run the project you will find [here](#)

Salesforce configuration

Change your configuration for SF here: ROOT/config/default.js

Please see more information [here](#)

ContentStack configuration

[Create new Stack](#)

Import our stack
Or find it in ContentStack MarketPlace (TBD)
Please request the access to out api_key and tokens

Create your Keys

```
API_KEY
ENVIRONMENT
DELIVERY_TOKEN
MANAGEMENT_TOKEN
```

More information in Contentstack

Runtime: How you can deploy your code

This document explain everything :https://developer.salesforce.com/docs/commerce/pwa-kit-managed-runtime/guide/pushing-and-deploying-bundles.html

Managed runtime: https://runtime.commercecloud.com/epam/accelarator

Create personal API key
   Follow https://developer.salesforce.com/docs/commerce/pwa-kit-managed-runtime/guide/pushing-and-deploying-bundles.html#save-your-credentials

Instruction

Start the authorization process by looking up your personal API key:
 	
1. Log in to **Runtime Admin**.
2. Click the user profile icon (top right) and click **Account Settings**.
3. Scroll down to the section called **API Key** and look for **Personal API Key.**
    o If you haven't yet created an API key, click the **Generate** link.
    o If you already have an API key, click the **Reset** link and click **Reset my API Key** when asked for confirmation.
4. Copy the command to use your API key.
 	
For security, when you return to the Account Settings page, the API key isn't displayed in full, so you must reset it to copy the full text of the API key again.
 	
From the command line, go to your PWA Kit project directory and run the command that you copied.
 	
Run the command again on any other computers that you want to use for pushing bundles.

Save API credentials with the suggested script (you will find this command in settings -
example: npx pwa-kit-dev@latest save-credentials --user {EMAIL} --key {Personal_API_key})

1 [Create environmental variables for a Contentstack](#)

2 Push
    a- npm run push -- -m "add your push message"
3 Deployment
    a- go to the deployments of your project environment on [Runtime Admin tool](#)
    b- Click Deploy button on your push

4 Click Visit Site

ContentStack - Content Import/Export

Install `@contentstack/cli` package

```
npm install -g @contentstack/cli

Set the needed configuration with the following cli command
see the usage command here
```
https://github.com/contentstack/cli/tree/main/packages/contentstack-config

```
Login with your credentials
csdx auth:login
```

see the usage command here
https://github.com/contentstack/cli/tree/main/packages/contentstack-auth

Export from the departure stack

`csdx cm:export --branch <branch name>`

Enter the API token if required

see the usage command here
https://github.com/contentstack/cli/tree/main/packages/contentstack-export

Import to the destination stack

`csdx cm:import --branch` <branch name>

Enter the API token if required

see the usage command
here.   https://github.com/contentstack/cli/tree/main/packages/contentstack-import

Contentstack description

Limits

Field Limitations

Field	Unit of measure	Limitations
"Title" field and "Display Name" property)	Max character length	200
Select	Max number of options	100
	Max character length of a single-value option	100
	Max character length of a key-value pair option	100 chars for key and 100 chars for value
Group	Max level of nesting in 'Group' field	5 (for stack v3.1 and above)
		16 (for stack v3, v2)
	Max number of fields (including nested fields)	100 (for stack v3.1 and above)
Modular Blocks	Max number of 'Modular Blocks' fields per content type	5

	Max number of fields in a Modular Block	This depends on how many fields you have used in your content type. The total number of fields (including the number of fields added in a Modular Block field) allowed in a content type is 100.
	Max number of Block schema definitions per 'Modular Blocks' field	20
Field Visibility Rules	Max rules allowed per content type	10
	Max conditions allowed in a rule	5
	Max target fields allowed per rule	5
Field Visibility Rules - Operand Field	Operand field cannot be any of these fields Note: Operand field can be a subfield of a Group field that's not marked 'Multiple'	• Rich-Text Editor • Markdown • Link • File • Group • Modular Blocks • Any subfield of a Modular Block
	Operand field cannot be any of the following	• Marked as 'Multiple' • Of JSON data type • Select field where the Selection Type is set to Multiple Choice
Field Visibility Rules - Target Field	Target field cannot be any of these fields:	• Subfield of a 'Modular Block' field • Group field marked as 'Multiple'
	Target field cannot be any of the following:	• Any field marked as 'Mandatory' • Field set as a target field more than once in a content type • Same as the operand field of any rule

	Field that has validation applied cannot be used as the target field	- A date range (a specific start and end date) - A max instance (any multiple field) - A limit for Multiple Choices (the Select field) - Marked as 'Mandatory' - Character length, for example, the blog name with character length between 10 and 20 - A number range, e.g., 10 to 15 - Validation through Regular Expression - Dimensions (image dimensions, etc) and extensions (.jpeg, .png, etc) applied

Limitations of Content Types

- The maximum character length of a UID of the content type is **200**
- The UID of the content type only accepts **alphanumeric**, **underscores (_)**, and **hyphen (-)**
- The maximum character length of description of the content type is **255**
- The maximum number of fields to add in a schema is **100**
- The maximum character length of the Title field and the Display Name property is **200**

Branches

Go to **Settings → Branches.**

To create a new branch, click on 'New Branch' button. Choose a source branch for a new branch.

Environments

Go to **Settings → Environments.**

To create a new environment, click on 'New Environment' button. Fill in the necessary fields.

Tokens

Go to **Settings → Tokens.**

Delivery Token

To create a new delivery token, click on 'Delivery Token' button. Fill in the necessary fields.

- Enter the token name.
- Select the branch(es) for which this token should be applicable.
- Select a publishing environment. The Delivery Token will be able to fetch the content of only the environment that you select here.

Management token

To create a new management token, click on 'Management Token' button. Fill in the necessary fields.

- Enter the token name.
- Select the branch(es) for which this token should be applicable.
- Select a publishing environment. The Delivery Token will be able to fetch the content of only the environment that you select here.
- Assign Read/Write permissions to this token.
- Set expiry for this token.

API

Base URL:

- US (North America, or NA): https://cdn.contentstack.io/
- Europe (EU): https://eu-cdn.contentstack.com/
- Azure North America (AZURE NA): https://azure-na-cdn.contentstack.com/
- Azure Europe (Azure EU): https://azure-eu-cdn.contentstack.com/

request URL
- ${baseUrl}/mobify/proxy/contentstack/v3/content_types/${contentType}/entries${entry}?environment=${environment}${refs}

Content Types & Entries

Content Type List		
Title	**Type**	**Label**
Imageless Banner	imageless_banner	Block
Promo Banner	promo_banner	
Extra Header	extra_header	
Footer	footer	
Header	header	
Hero	hero	Block, Reference
Reach Text Banner	reach_text_banner	
Icons	icons	Reference
Account Menu	account_menu	
Main Page Content	main_page_content	Page
Primary Page Components	primary_page_components	
Main Page Elements	main_page_elements	

Homepage Sections	homepage_sections	
Product	product	Static Page
Product Detail	product_detail	
Product List Type	product_list_type	
Styles	styles	
Order Detail Type	order_detail_type	
Embedded carousel banner	embedded_carousel_banner	

Entry:

- hero
- enhanced_hero
- shop_products
- functional_cards
- contact_reference
- video
- cart_items
- features
- card_block
- images_carousel
- product_details
- recommended_products
- imageless_banner
- account_details
- gif_block
- product_list
- wishlist
- rtf_banner
- account_addresses
- accordion_spoilers
- info_founder
- enhanced_image_banner

Environments:

- dev
- production

Ref:

- page_blocks.imageless_banner.imageless_banner
- account_menu.account_menu
- page_blocks.account_details.menu.account_menu
- page_blocks.wishlist.menu.account_menu
- page_blocks.rtf_banner.rtf_banner
- page_blocks.account_addresses.menu.account_menu
- page_blocks.shop_products.embedded_banners
- page_blocks.shop_products.types.category.group_icons
- header_bar.icon.icon
- page_blocks.features.feature_items.icon.icon

Instruction @epmc-mach/accelarator

Creating `.npmrc` file

You need **AUTH_TOKEN**. To get **AUTH_TOCKEN** go to **Edit Profile → Access Tokens**, fill in the **Token Name**, **Select scopes**: `api` , `read_api` , and click **Create personal access token.**

!!! IMPORTANT !!! Save the token in a safe place because you can only see it once.

.npmrc
```
@epmc-mach:registry=https://git.epam.com/api/v4/projects/175395/packages/npm/
//git.epam.com/api/v4/projects/175395/packages/npm/:_authToken=${AUTH_TOCKEN}
```

HOW TO USE EXTEND FEATURE OF PWA KIT

1. Run `npx @salesforce/pwa-kit-create-app@latest --preset retail-react-app-demo`
2. The new project will be generated in the `retail-react-app-demo` directory
3. Go to `retail-react-app-demo` directory, create the `.npmrc` file in the project root and insert the code above into the newly created `.npmrc`
4. Run `npm i @epmc-mach/accelarato`
5. Go to the `package.json` and modify `ccExtensibility` like this:

```
6. "ccExtensibility": {
7.   "extends": "@epmc-mach/accelarator",
8.   "overridesDir": "overrides"
   },
```

9. Run `npm i dotenv` and create the file `.env` in the project root
10. Go to `.env` and paste into it our `.env` code from `@epmc-mach/accelarator` package
11. Replace all `@salesforce/retail-react-app/` imports with `@epmc-mach/accelarator/` throughout the project.
    !!! Don't touch in the `package.json` and `package-lock.json` !!!
12. Replace all `@epmc-mach/accelarator/app/components/shared/ui` with `@chakra-ui/react` throughout the project.
13. Go to `overrides/app/ssr.js` and paste into it our `ssr.js` code from `@epmc-mach/accelarator` package

14. Go to `config/defaults.js`, find `ssrParameters` -> `proxyConfigs` and add to the array this:
15. `{`
16. `        host: 'eu-cdn.contentstack.com',`
17. `        path: 'contentstack'`
    `}`

!!! NOTE !!!

After `npm run start` you will see the `/` route with OVERRIDED `Home` page.

It's ok because you created the new page here `overrides/app/pages/home` and added the route here `overrides/app/routes.jsx`.

To see the DEFAULT page of the `@epmc-mach/accelarator` replace `/` with `/home` or something else in the `overrides/app/routes.jsx`

More about Template Extensibility please see here

Version 2

1. Run `npx @salesforce/pwa-kit-create-app@latest --preset retail-react-app-demo`
2. The new project will be generated in the `retail-react-app-demo` directory
3. Create `.npmrc` with pre setups
4. Run `npm i @epmc-mach/accelarator`
5. Run `npm i dotenv --save-dev`
6. Run `node node_modules/@epmc-mach/accelarator/setup.js`

Environment

- Variables
  - Project ID
  - [API key](API key)
  - Environment ID
- Create environment
- Get settings of environments

- [Modify configuration](#)
- [Set environment variables](#)
- [For development](#)

Just run next command in terminal

Variables

Project ID

`$PROJECT_ID` go to 'Edit Project Settings'

API key

`$API_KEY` go to 'Account Settings'
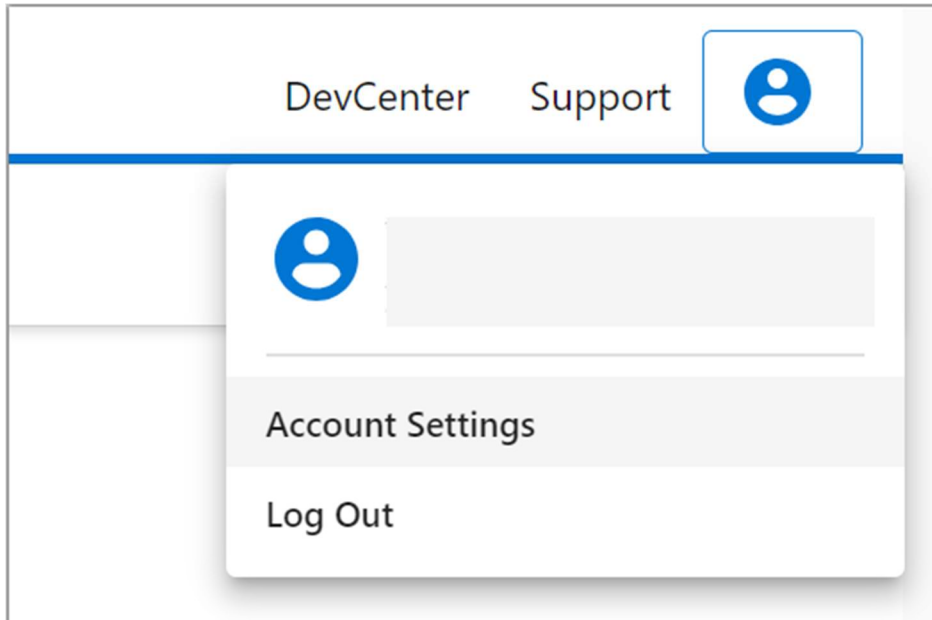
API Key

Personal API Key
Your API Key can be used to authenticate Mobify APIs and to configure your Mobify CLI
tool to push bundles. Learn more

| ********************************qlt_A0sc | Reset |

For security reasons, only a portion of your API key is visible. If you don't know your full
API key you can reset it.

Environment ID

`$ENVIRONMENT_ID` go to 'Environment Settings'

Environment Settings

General   Edit

Name   Development
A descriptive name for this environment.

Environment ID   development
User-friendly identifier for this environment.

Production Environment   Disabled
Mark as production to prioritize monitoring of your environment.
Learn more

Create environment

For creating an environment we can use the command below

```
curl "https://cloud.mobify.com/api/projects/$PROJECT_ID/target/" \
  --request 'POST' \
  --header "Authorization: Bearer $API_KEY" \
  --header 'Content-Type: application/json' \
  --data '{"name": "test"}'
```

Get settings of environments

To get the settings of environments we can use the command below

```
curl "https://cloud.mobify.com/api/projects/$PROJECT_ID/target/" \
  --header "Authorization: Bearer $API_KEY"
```

Modify configuration

For modification created environment called 'test' we can use the command below

```
curl
"https://cloud.mobify.com/api/projects/$PROJECT_ID/target/$ENVIRONMENT_ID/" \
  --request 'PATCH'  \
  --header "Authorization: Bearer $API_KEY" \
  --header 'Content-Type: application/json' \
  --data '{"ssr_proxy_configs": [{"path": "api", "host":
"kv7kzm78.api.commercecloud.salesforce.com"}]}'
```

Set environment variables

To set the variables of the environment we can use the command below

```
curl -X 'PATCH' \

'https://cloud.mobify.com/api/projects/$PROJECT_ID/target/$ENVIRONMENT_ID/env
-var/' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer $API_KEY' \
  -H 'Content-Type: application/json' \
  -d '{
  "REGION": {
    "value": "..."
```

```
  },
  "BRANCH": {
    "value": "..."
  },
  "API_KEY": {
    "value": "..."
  },
  "ENVIRONMENT": {
    "value": "..."
  },
  "DELIVERY_TOKEN": {
    "value": "..."
  },
  "MANAGEMENT_TOKEN": {
    "value": "..."
  }
}'
```

For updating a value just push a new value for a variable. For deleting a variable just push 'null' as a value for a variable.

For development

.env file config
```
#create environment file name as .env
#and place following configuration data.

# ContentStack env variables
REGION=eu
BRANCH=dev
API_KEY=blt6abaf8a3021be45a
ENVIRONMENT=dev
DELIVERY_TOKEN=cs3a15108e44ed02b5f53f4e74
MANAGEMENT_TOKEN=csa76f61953ddd9d2bb097bc6f


# ContentStack live preview variables
REACT_APP_CONTENTSTACK_API_KEY=blt6abaf8a3021be45a
REACT_APP_CONTENTSTACK_DELIVERY_TOKEN=cs3a15108e44ed02b5f53f4e74
# REACT_APP_CONTENTSTACK_ENVIRONMENT=your_environment_token

# Below config options are for enabling live preview/live edit tags for the
starter app

REACT_APP_CONTENTSTACK_API_HOST= api.contentstack.io
REACT_APP_CONTENTSTACK_MANAGEMENT_TOKEN=csf91a466ef27850630a3e6e78
REACT_APP_CONTENTSTACK_APP_HOST=eu-app.contentstack.com
REACT_APP_CONTENTSTACK_LIVE_PREVIEW= true
REACT_APP_CONTENTSTACK_LIVE_EDIT_TAGS= false
```

```
# REACT_APP_CONTENTSTACK_LIVE_PREVIEW=true by default set
REACT_APP_CONTENTSTACK_LIVE_PREVIEW=false to disable live preview
# For enabling live editing tags for this project set
REACT_APP_CONTENTSTACK_LIVE_EDIT_TAGS=true by default it is set to false
# For EU region add REACT_APP_CONTENTSTACK_APP_HOST=eu.app.contentstack.com

# By default branch=main, if a branch is not provided
# REACT_APP_CONTENTSTACK_BRANCH=dev

# By default region=us, if a region is not provided
# REACT_APP_CONTENTSTACK_REGION=eu

SKIP_PREFLIGHT_CHECK=true
```

SFCC description

General

To set the configuration (products, variation, recommendations and etc.) for a store, click on **Merchant Tools → RefArch → Products and Catalogs**

Catalogs

General

Go to **Catalogs**

To create a new catalog, click **New**
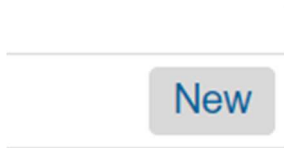
New Product Catalog

Fields with a red asterisk (*) are mandatory. Click **Apply** to save the details. Click **Cancel** to go back to the list.

Select Language: Default

Catalog ID:*

Name:

Description:

Apply   Cancel

Fill in all mandatory fields. After applying for a new catalog, click on a link for this catalog and after that click **Edit.**

Merchant Tools > Products and Catalogs > Catalogs > Storefront Catalog - EN

Categories

Storefront Catalog - EN

Edit

Site Assignments

This option allows to activate catalog for all sites listed below. To configure a catalog for a certain site, select the corresponding checkbox and click **Apply.**

Image Settings

It allows to define the storage location of your product images per catalog. In case of an external image location you have to specify an HTTP URL (e.g. "http://www.yourserver.com/images/"). If you would like to access external images based on a secure connection, you have to provide an HTTPS URL (e.g., "https://www.yoursecureserver.com/images/"). In case of an internal image location you can specify a **Base Path** (e.g., "/your/special/images/") pointing to a special folder within the catalog image directory. The initial Base Path ("/") points to the root folder of the catalog image directory.

You can add an image **View Type** by clicking the **Add View Type** link, providing a value and clicking **Apply.** You can remove the view types of an image by clearing its fields and clicking Apply. View types have to be unique per catalog.

In order to group images by variation values, you can specify an ID of a shared or local **Variation Attribute.**

You can set up a **Default Image Title** and a **Default Image Alt** for your images.

The following pattern variables can be used:

${productname} will be substituted with the name of the product or variation in the current locale.

${variationvalue} will be substituted with the display value of the variation value in the current locale. If the display value is undefined, the value itself is used.

${viewtype} will be substituted with the image view type.

Example: "The ultimate {productname} in color {variationvalue}." – "The ultimate beach towel in color red."

Image Location:	Internal
Base Path:	/
View Types:	large
	medium
	small
	swatch
	Add View Type
Variation Attribute ID:	
Default Image Alt:	
Default Image Title:	

Category Attributes

Fill in all mandatory fields. Click **Apply** to save your changes.

Product Attribute Definitions

This list shows attribute groups attached to this category. Category attribute groups define product attributes for all products assigned to this category. Provide an ID and click **Add** to add a new attribute group to the category. Click **Delete** to delete existing attribute groups selected by the checkboxes. Click **Edit** to manage the individual attribute definitions of this group.

Search Refinement Definitions

This list shows all search refinement definitions of this catalog category and all existing inherited search refinement definitions of parent categories. You can manage the most important attributes of existing refinement definitions for this category directly in the list below.

You can block or unblock an existing inherited search refinement definition with the links "Block" and "Unblock".

Click **Apply** to save your changes. Click **Delete** to delete existing refinement definitions and click **New** to create new definitions.

Products

General

Go to **Products**

To add a product, click **New.**
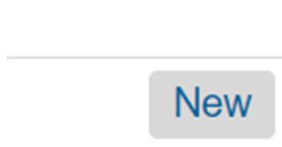
Fill in all mandatory fields. Click **Apply** to save the details. Click **Cancel** to abort and go back to the list. You can enter information in other languages if required.

To add ID and choose catalog. Click **Apply** to save your changes. After applying for a new product, find this product and click on the link id for editing. **Lock** this product for editing.

Custom product sections

Create custom field

To set the configuration for products, click on **Administration** → **Site Development** → **System Object Types** → **Product**

On this page you view system attributes of the selected object type. To add new attributes to this system type, use the "Attribute Definitions" tab. To group defined attributes, use the "Attribute Grouping" tab.

Custom field for product

Material Characteristics:

- Cotton Fabric
- Synthetic
- Polyester
- Wool

Washing Care:

- dry clean

- hand wash
- machine wash

These two custom fields described above
allow adding tabs on the product detail page. The description for these sections allows editing on the Contentstack side.

INFO   SIZE & FIT   REVIEWS   QUESTIONS   CARE   MATERIAL CHARACTERISTICS

Machine Wash
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Status:

- New Arrival
- On Sale

It allows to marking of products with special labels such as 'New In', 'On Sale' and 'Out of Stock'. Out of stock if a product is not available for purchase and related to a stock Level parameter.

Variations

The following list shows the variable attributes configured for this base product. You can add shared variation attributes using the ... button or entering the shared variation attribute ID followed by clicking **Add**. Click **New** to create a new local variation attribute. Click **Delete** to delete a selected local variation attribute, or to unassign a selected shared variation attribute.

Add Shared Variation Attribute						
ID:*		...	Add			
Select All	**ID/Attribute Definition**	**Name**		**Slicing**	**Type**	**Values**	**Sorting**
☐	color / color	Color		No	Local	29	⬆⬇
						New Delete

Inventory

The following list shows the inventory data of the product in all of its inventory lists. Click **Create** to create a new record for this product in an inventory list.

Product ID:	25686571M
Perpetual:	☐
Allocation:	

Create Reset

Categories

This page allows you to manage the category bindings of this product. The list below shows all categories the product is currently assigned to, grouped by catalog. A product has a single "Classification" and one "Primary Category" per catalog. The classification category defines the attribute set of the product. The primary category is used as standard presentation context within that catalog in the Storefront.

Click **Edit Categories** to assign the product to new categories. Click **Unassign** to remove the product from the selected categories. Click Apply to update the classification and primary categories of the product.

Select All	Category ID	Category Name	Category Path	Status	Classification	Primary	
	Apparel Master Catalog (apparel-m-catalog)						
☐	mens-clothing-suits	Suits	Mens > Clothing > Suits	◉	●	●	Details
	Storefront Catalog - EN (storefront-catalog-m-en)						
☐	mens-clothing-suits	Suits	Mens > Clothing > Suits	◉	○	●	Details
☐	newarrivals-mens	Mens	New Arrivals > Mens	◉	○	○	Details
	Storefront Catalog - Non-EN (storefront-catalog-m-non-en)						
☐	mens-clothing-suits	Suits	Mens > Clothing > Suits	◉	○	●	Details
☐	newarrivals-mens	Mens	New Arrivals > Mens	◉	○	○	Details

Unassign   Edit Categories Apply

Links

This list shows which products are linked with this product. **Linked From** are products, that are linked from this product. **Linked To** are links to this product from the listed products.

There are numerous link types: "Replacement", "Cross-Selling", "Up-Selling", "Accessory", "Follow-Up", "Different Order Unit", "Spare Parts", and "Other". For more information on these link types, click where you create a new product link.

>To quickly create links, just select a link type below and enter the product IDs you wish to link and then click **Create Link**. To search for specific products, just click the **Search to Create** >> button to find and create the respective product links.

To remove product links, simply select the product you wish to remove and then click the **Remove** button.

Linked From Charcoal Single Pleat Wool Suit <25686571M>	Hide
Filter Product Link List	
Link Type: All ⌄ Apply	
No products are currently linked from this product.	

Link Type: Replacement ⌄ Product IDs: [   ] Create Link Search to Create >>

Linked To Charcoal Single Pleat Wool Suit <25686571M>	Hide
No products are currently linked to this product.	

Recommendations

This list shows the recommended products associated with this product. Use this view to sort, edit, or delete existing recommendations or create new recommendations. Recommendations are always contained in a catalog and so only those in the selected catalog are visible. Use the select box to toggle between catalogs.

Filter Recommendation List

Catalog: [Storefront Catalog - EN ▾] [Apply]

Select All	Product ID	Name	Color	Refinement Color	Recommendation Type	Product Type	Status	View	Sorting
☐	25752235M	Checked Silk Tie			1 (Product Detail Page - Cross Sell)	Variation Base Product	⊙ ⊚ ⚲ ⊕⊩	🔍	Edit	⬇
☐	25604455M	No-Iron Textured Dress Shirt			1 (Product Detail Page - Cross Sell)	Variation Base Product	⊙ ⊚ ⚲ ⊕⊩	🔍	Edit	⬍
☐	25604524M	Black Single Pleat Athletic Fit Wool Suit			1 (Product Detail Page - Cross Sell)	Variation Base Product	⊙ ⊚ ⚲ ⊕⊩	🔍	Edit	⬆
								New	Delete

SFCC Accelerator - Environment

Environments

PWA Kit

Local setup

Salesforce PWA-Kit is a react based storefront connected to the Salesforce Commerce Cloud API's out of the box. This instruction helps installing the PWA-Kit locally connecting to a server in the cloud.

Prerequisites

the PWA-Kit needs node and NPM (part of node) to be installed. The PWA-Kit needs specific versions of node and NPM to be present:

Node version: `v14.19.0` (or the latest `14.x` version

NPM version: `6.14.16`

Install PWA-Kit locally

Use the following command to start the installation of the PWA-Kit

npx pwa-kit-create-app@latest --preset retail-react-app-demo

Start local runtime

Switch directory:

`cd pwa-kit-starter-project`

Use the command: `npm start`

After starting the local runtime the storefront can be loaded by opening: http://localhost:3000

Authentication

One of the topics being discussed in our conversations about the Accelerator is Authentication.

There are two levels of Authentication:

1. System authentication to systems like ContentStack;
2. Personal authentication by a user.

In the sequence diagrams below both levels of authentication are described.

1. System Authentication

When systems, like ContentStack, needs authentication we create system credentials being stored in a safe key store, like SFCC.

When logging in with those credentials a token will be returned by the System which can be stored in the Managed Runtime(Relux) to be used in the Header for doing calls. This token can be reused over different sessions.
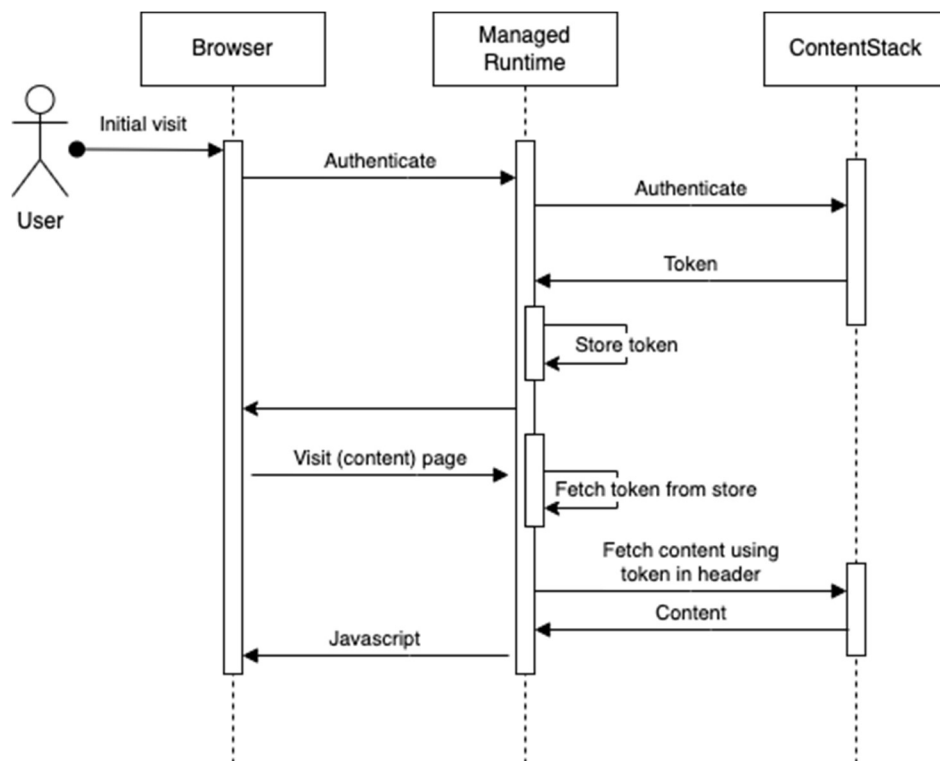
2. Personal Authentication

When a user logs in on the webshop, we are talking about personal authentication. In our Accelerator the authentication will be done against Salesforce Commerce Cloud.

For systems not containing personal data, like ContentStack the System authentication will still be used.
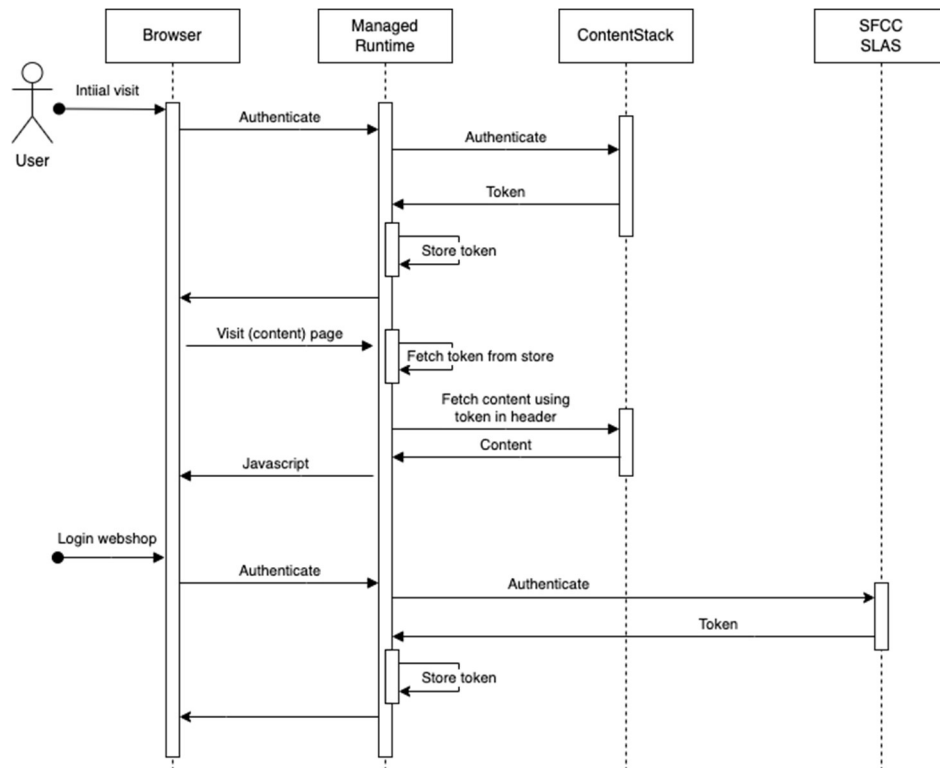
Content translation

The Contenstack suggests using multiple ways in order to translate the created content:
1 - [Smargling](#) (how to [integrate](#) - guide)

This way provides high-quality translation, however, that requires a subscription

2 - [GlobalLink Connect](#). - this extension can be installed through Marketplace, trial is available for 30 days and includes raw machine translation support for US English text into Germany for Germany, French for France, Spanish for Spain, Japanese, and Simplified Chinese.

Locale setting on the Salesforce side

https://help.salesforce.com/s/articleView?id=cc.b2c_configuring_site_locales.htm&type=5

Component examples

Banner above header (persistent banner, promo banner)

Content Type: Promo Banner

Description

This component is placed above header to promote discounts. When clicking the banner, promocode will automatically be applied to the cart

Instructions

1. Click "Promo banner" and choose an entry with configured text or text with promocode:

Description of the fields:

- **Title**: Title of the Module
- **Label**: Text represented on the web page
- **Promocode**: Promocode added to the cart
- **Href**: Hyperlink reference (URL)
- **Text Color**: Color of the text
- **Background Color**: Color of the Banner
- **Position**: Position of the banner. Variants:
    o Above the Header
    o Above the Footer
    o Under the Header
- **Tags**: Keywords or labels used for categorization

Title (required)

Promo Banner

Label

20% OFF TREASURES FROM THE VAULT! PLUS, FREE SHIPPING ON ORDERS $200+ WHEN YOU LO

Promocode

5ties

Href

Type something...

Text Color

#fff

Background Color

#000

Position

Above the H...   ✕   ⌄

Tags

Add some tags

Banner Components

There are several types of banners, including RTF banners (without images), animated banners, banner carousels, etc.

- [Enhanced Hero banner](#)
  - [Description](#)
    - [Posible configuration](#)
  - [Instructions](#)
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  - [Text](#)
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- [RTF banner](#)
  - [Text](#)
    - [Description](#)
    - [Instruction](#)
  - [1 image + text](#)
    - [Description](#)
- [Banner Carousel](#)
  - [Description](#)
  -
  - [Instruction](#)

Enhanced Hero banner

Content Type: Page2

Page Blocks ID: enhanced_hero

Page Blocks Title: Enhanced Hero

Description

This component is placed in the web-pages. When clicking the button it is possible to navigate to the related page.
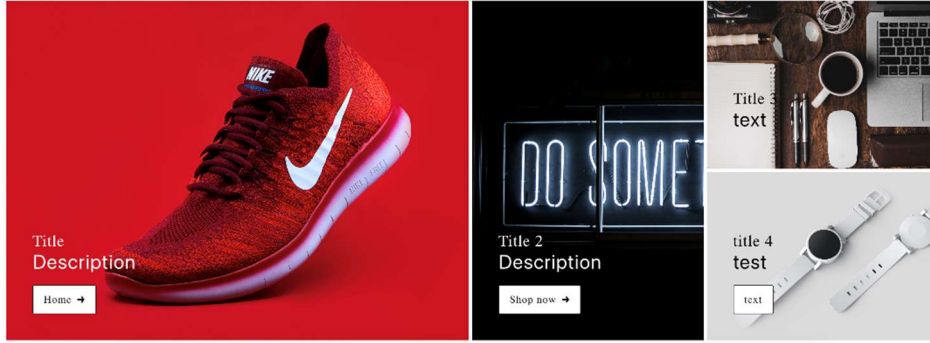
Posible configuration
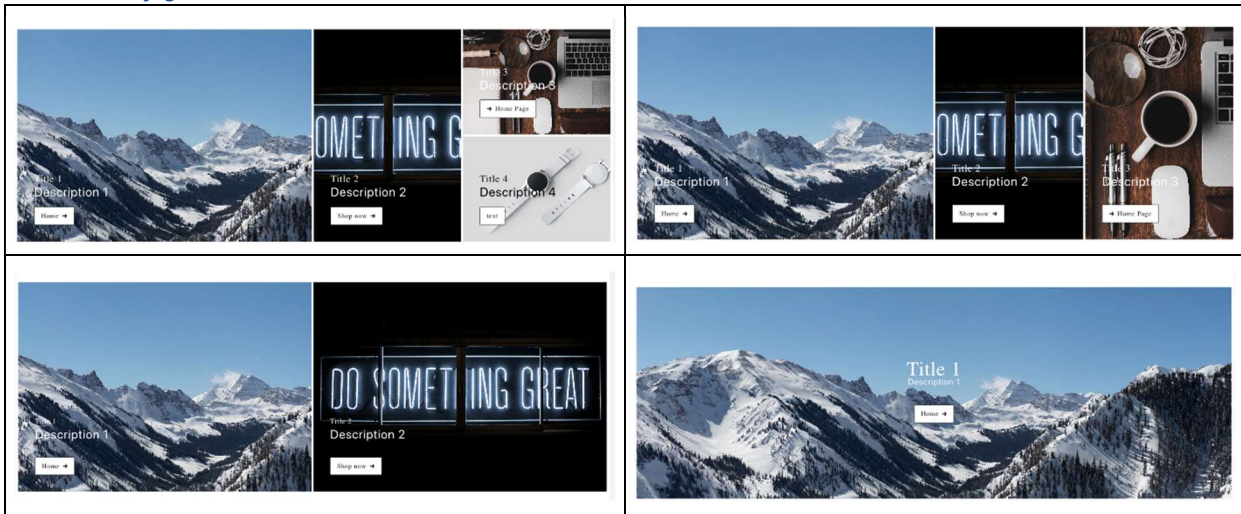
Instructions

Select your Entry Page with the CONTENT TYPE: PAGE2, and navigate to the **Page Blocks** section.

Next, click on **Enhanced Hero** and proceed to complete the forms. The following fields are available:

| Max number of the Hero group is 4 Description of the form and fields:

 • **Title**: Title of the section of the baner. Visible on the baner. Mandatory field
 • **Description**: Addtitional text for the baner.
 • **Buttons Group**: Group of buttons visible on the form. Recommended max 2.
 Label: Button text
 Href: Navigation to the page in the web-side
 Icon Position: Right/Left
 Icons: list of Icons for the button
 • **Image**: Image for the banner
 • **Text Schema**: Color Schema of the banner's text. Variants:
     o White
     o Black | |

Simple Hero banner

Text

Description

Hero banner can consist of title, text, buttons and an image (can be animated)
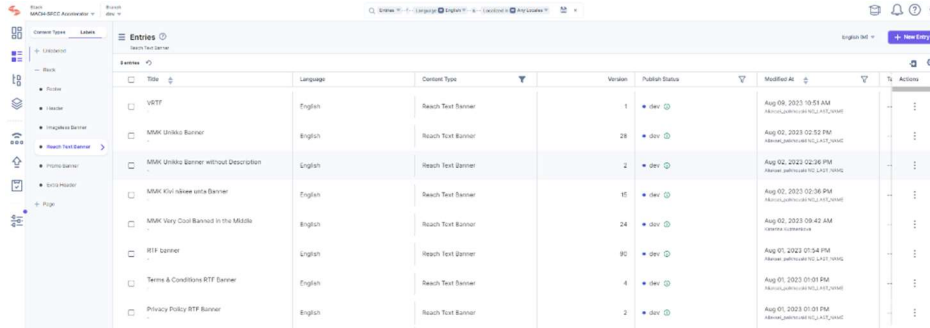
RTF banner

Text

RTF banner can consist of a text only. It supports links, bold/italic/underlined text and lists.
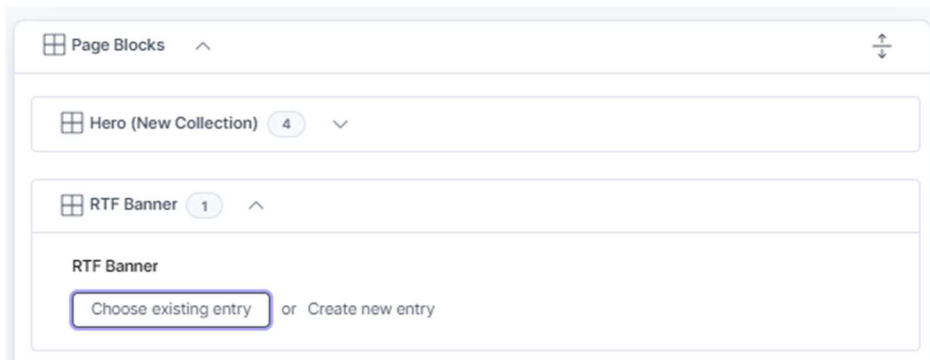
1. Navigate to: Entries -> Labels -> Block -> Rich Text Banner. Review existing banners to choose from OR create a New Entry

2. Navigate to Page → Click to add RTF banner -> Select an entry for an RTF banner

1 image + text

Description

Banner Carousel

1. Click "Image carousel" and select images

2. Select images

[📷] Image Title and Description ⑦

Add the title and description for the every image in the **carousel**

> Direction is important. If you add only one title and description they will be used as a static title and description for the every image in the carousel. If you have three images in the carousel and two titles and descriptions then the third image will contain the last title and description.

Images (required)

[image] 2cFZ_FB08UM-unsplash.jpg
168.46 KB

[image] MEsWk-dZzII-unsplash.jpg
565.00 KB

[image] 82obo-unsplash.jpg
1.49 MB

[Choose a file] or [Upload a new file]

Reverse Direction

[toggle off]

Setting slider toggle buttons as dots

[toggle off]

Header

There are 3 types of Menu.

Simple Menu

Description

Simple configuration

Instructions

Navigate to Header label and select "Header" in the entry list
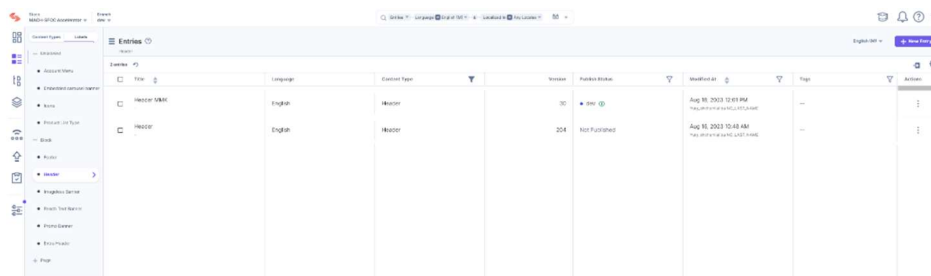
To make a simple header, make sure that in settings:

- no category picture is shown
- no description in the bottom is shown
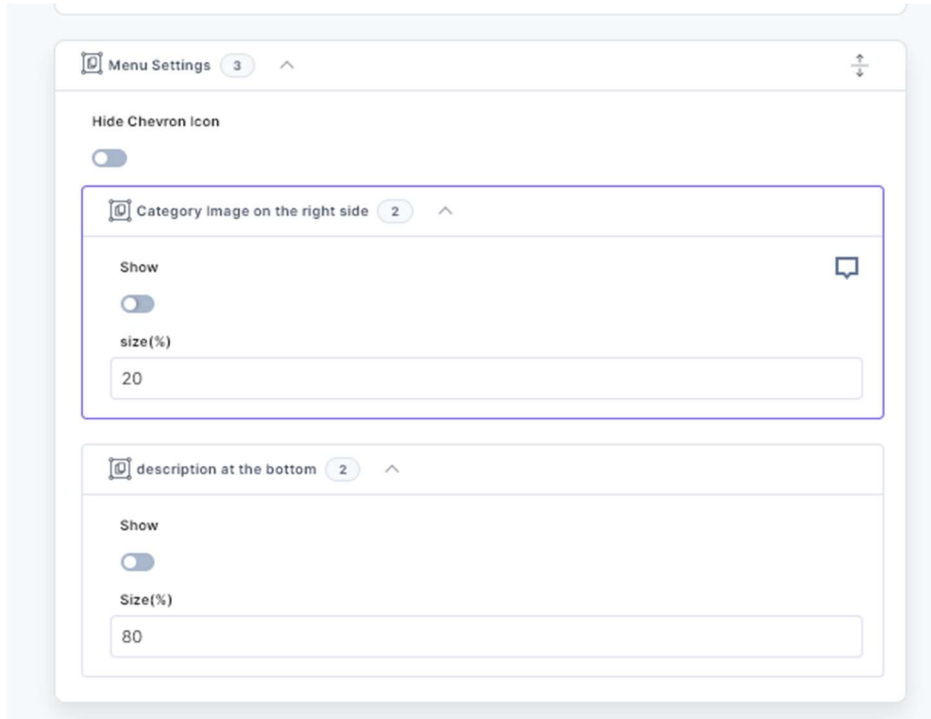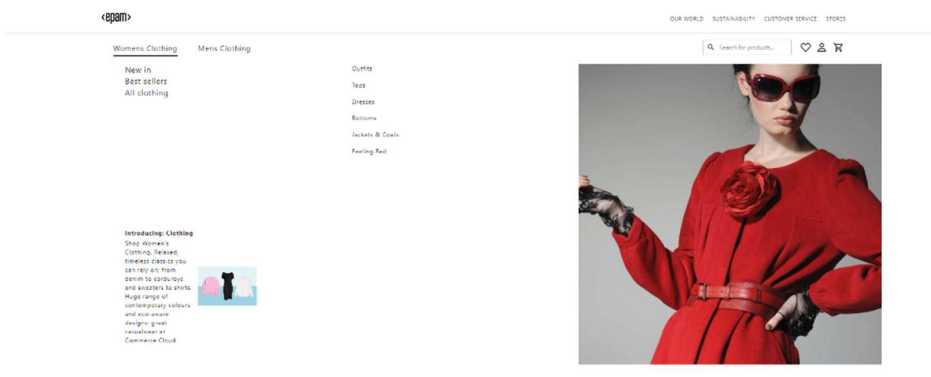

Menu with a Category Picture

Description

Instructions

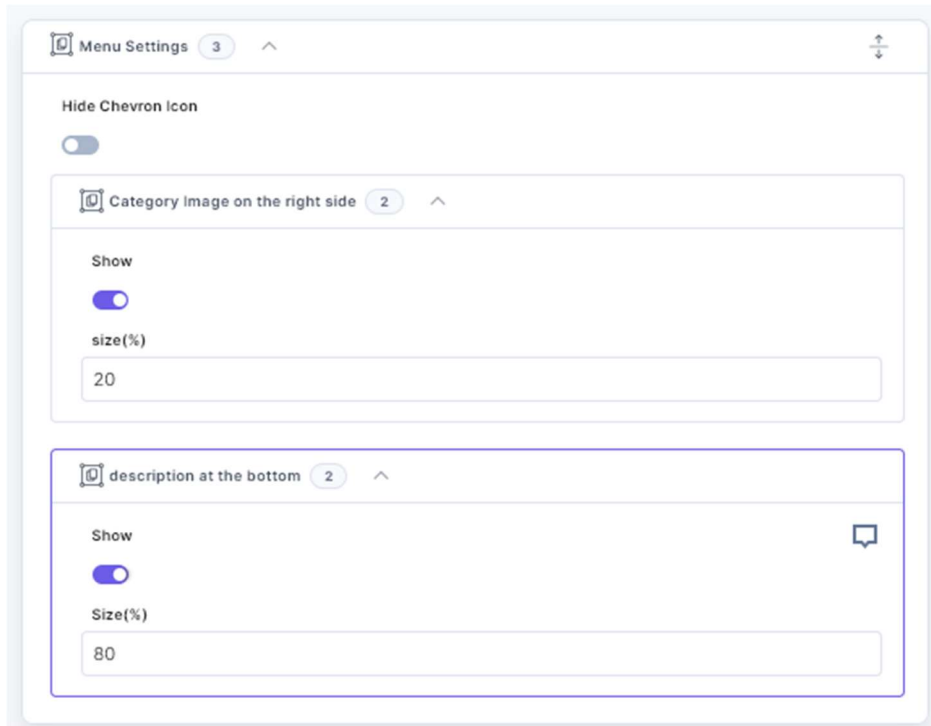To setup this megamenu, select "show category image"
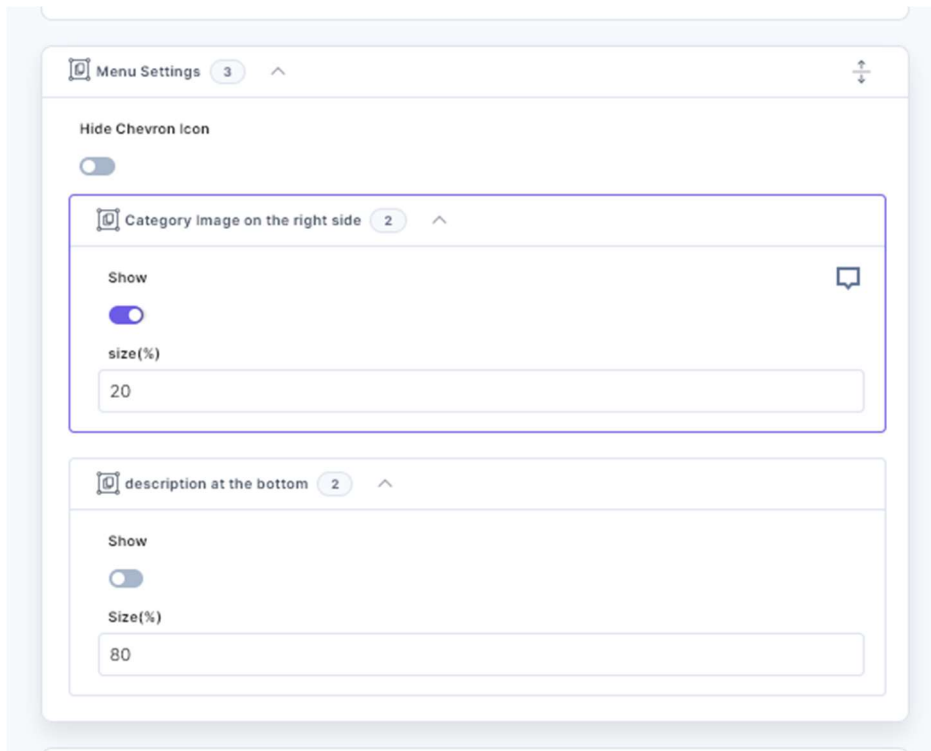
Menu with Two Category Pictures

Description

Instructions

To setup this megamenu, select "show category image" and "show description in the bottom"

Related Articles Component

Description

Related Articles component contains links to articles. The component can contain 3 or 4 article cards, depending on the configuration,

Filters can be applied to the section, so a particular articles appear on particular pages (e.g. articles about women products on women category page)

Related Articles
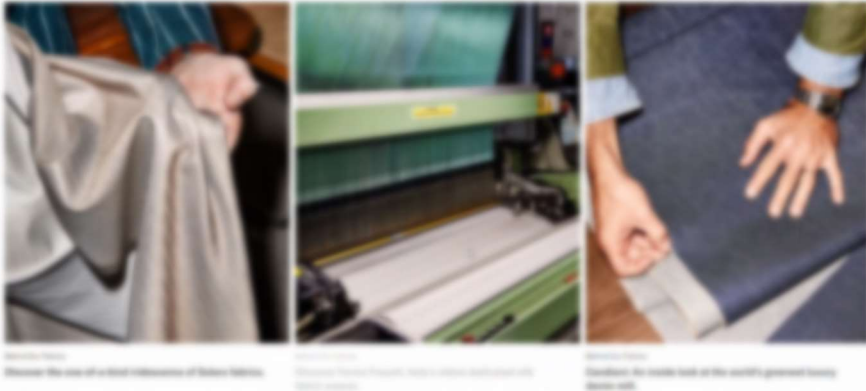
Instruction

1. In contentstack, navigate to Partners page and find "Related articles" block

Description of the fields: • **Title**: Title of the Module • **Articles**: Block for instances • **Instance**: Article card • **Image**: Image for an article card • **Link title**: Name of an article • **Link URL**: URL of an article	

Product Lister Banner 2x2

Description

This block can be placed on the homepage. It can contain asset picture or category picture, a button or URL
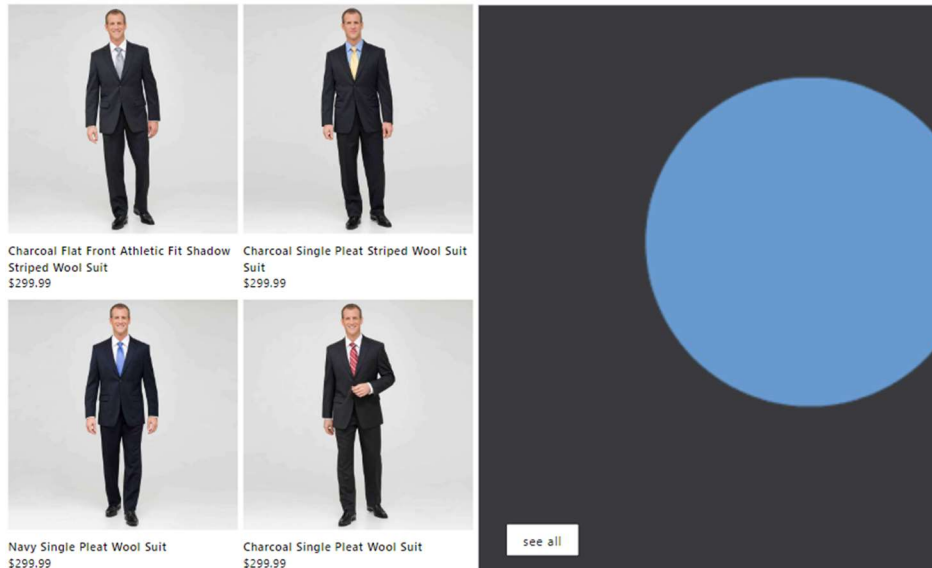
Instruction

1. Lister Banner should be selected inside Shop products block

Description of the fields: - **Category**: Category of products that will be listed in the component - **Image**: Image of the banner (can be animated) - **Wide Image Block**: Positioning of the image in the banner - **Button**: Block for button configuration - **Label**: Button text - **Is in stock label enabled?** Labels on product cards	

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