

Scenario = You take any business, there will key points for you?

1) Attract Customer =

Contextually relevant Info.

During the Diwali ... We see most of Diwali related items.

Jun 6th – iPhone ... Jun 7th – iPhone ... Jun 9th – iPhone

When U come 11th ... U will see most of Phone related items.

Create great experience.

Q = Why UX is import?

UI – UX – CX

https://articles.uie.com/three_hund_million_button/

300 Million Dollars Revenue.

This is the power of UX.

2) Convert Customer =

Regardless of Channel (Desktop / Mobile / ...) – You should do the business with them.

3) Retain Customer =

By reaching the expectations throughout customer journey.

Now a days – Its not matter... How much business you are doing?

It's matter, how much customer base you have.

Flipkart – 10 Years completion day.

==> For **1st , 2nd & 3rd** Points ... We need the Tech. to achieve.

“SAP Comm” is the 1 of the technology for to achieve all those above.

Scenario = What is the Omni Commerce (or) Omni Channel?

Let's say – You got job. U want to give a gift (Gold Ring) for GF / BF.

1st Sol = U go to Store – Search for ring – Ask for Price – Buy it – U go & give to your BF / GF. If the business is happening in this way, then it's called "**Single Chanel**".

2nd Sol = U go to Website – Search for ring (Model) – Check the Price – U go to Store – Quickly ask your model – Buy it – U go & give to your BF / GF. If the business is happening in this way, then it's called "**Multi Chanel**".

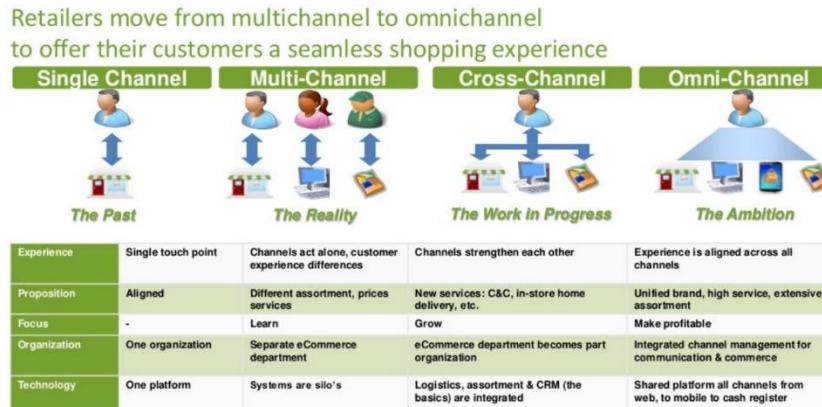
3rd Sol = U go to Website – Select the Design – Sending the Design to your Friend – Let your friend select the design – Call the CC & Place the Order – Delivery person comes & deliver the product. If the business is happening in this way, then it's called "**Cross Chanel**".

4th Sol = This is called Modern Approach / Agile Approach.

Start searching which website is good for your Transaction – Search for Product – You can apply Vouchers & get Discounts – You can pay some money with Wallet & some amount with CC – Specify different delivery dates – Place the Order – If you don't like, No problem, you can simply place the Cancel Req. – There will be **seamless amount** return process.

If the business is happening in this way, then it's called "**Omni Channel**".

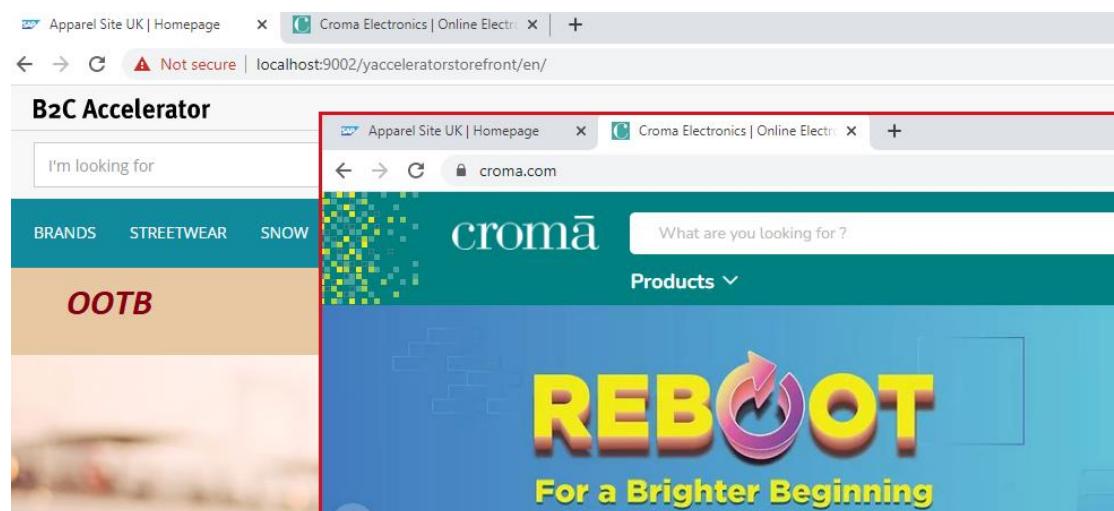
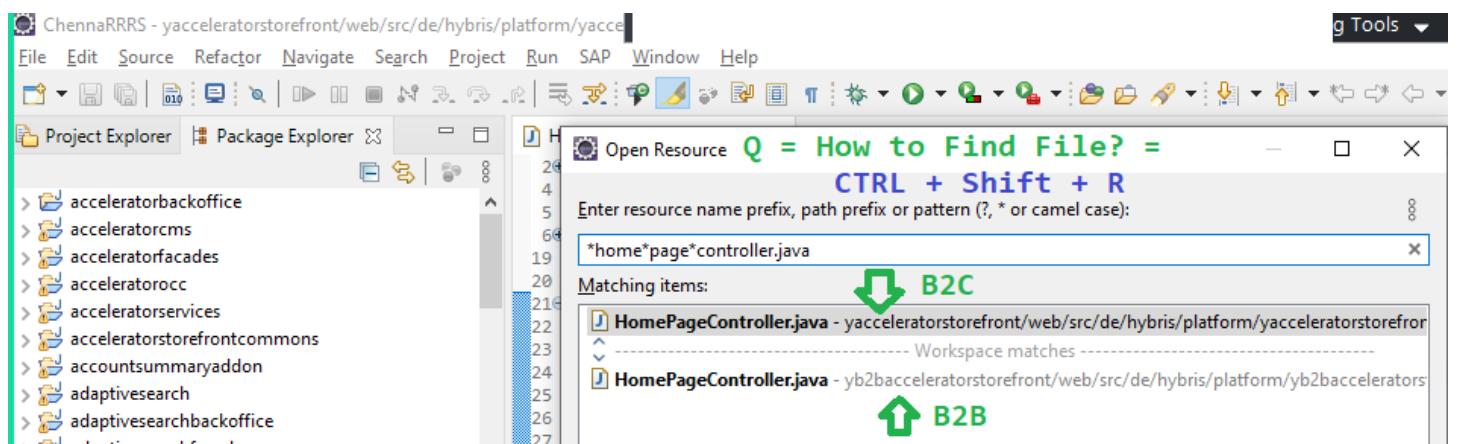
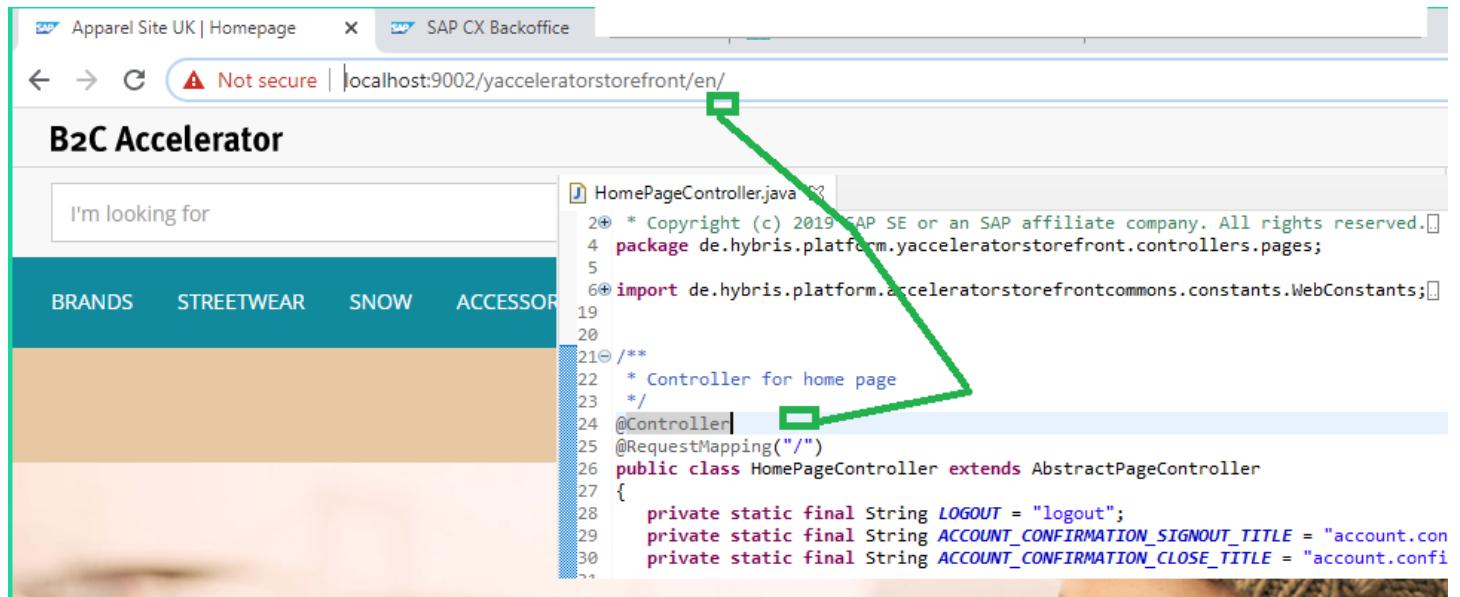
Note: "SAP Comm" is the Omni Commerce / Channel.



Scenario = Website & Pages

1 = Homepage -- HomeController.java

URL = <https://localhost:9002/yacceleratorstorefront/en/>



2 = Search Results Page [SRP] (or) Search Page

SearchPageController.java

The screenshot displays three browser tabs, each showing search results for the term "caps".

- Top Tab:** Shows the search term "caps" in the search bar. A green arrow points from the search bar to the search icon.
- Middle Tab:** Shows the search term "caps" in the search bar. A green arrow points from the search bar to the search icon. To the right, a portion of the Java code for `SearchPageController.java` is visible, indicating the controller handles the search request.
- Bottom Tab:** Shows the search term "caps" in the search bar. A red circle highlights the search bar area.

Search Results Page (B2C Accelerator):

- Search Bar:** Shows the search term "caps".
- Navigation:** BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH.
- Breadcrumbs:** HOME / CAPS
- Search Result Summary:** You searched for "caps" | 19 Products found
- Product Listings:** Three product cards are shown, each featuring a cap image.

Java Code Snippet (`SearchPageController.java`):

```
2① * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.②
4③ package de.hybris.platform.yacceleratorstorefront.controllers.pages;
5④
6⑤ import de.hybris.platform.acceleratorcms.model.components.SearchBoxComponentModel;
45⑥
47⑦ @Controller
48⑧ @RequestMapping("/search")
49⑨ public class SearchPageController extends AbstractSearchPageController
50⑩ {
51⑪     private static final String SEARCH_META_DESCRIPTION_ON = "search.meta.description";
52⑫     private static final String SEARCH_META_DESCRIPTION_RESULTS = "search.meta.description_results";
53⑬
54⑭     @SuppressWarnings("unused")
55⑮     private static final Logger LOG = Logger.getLogger(SearchPageController.class);
56⑯ }
```

3 = Category Page (or) Product Listing Page [PLP]

CategoryPageController.java

URL =

<https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100>

B2C Accelerator

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / ACCESSORIES / BELTS

Shop by Stores or

SORT BY: RELEVANCE

CategoryPageController.java

```
2④ * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
3⑤ package de.hybris.platform.yacceleratorstorefront.controllers.pages;
4⑥
5⑦ import de.hybris.platform.acceleratorstorefrontcommons.controllers.pages.AbstractCategoryPageController;
6⑧
7⑨ /**
8⑩ * Controller for a category page
9⑪ */
10⑫ @Controller
11⑬ @RequestMapping(value = "/**/c")
12⑭ public class CategoryPageController extends AbstractCategoryPageController {
```

8 Products found

Snow Jackets | Snowwear men | C × C Home Appliances | Buy Latest Ho × | +

← → C Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100

B2C Accelerator

I'm looking for

BRANDS STREETWEAR SNOW

HOME / CATEGORIES / SNOWWEAR

Shop by Stores

croma.com/home-appliances/c/5

What are you looking for ?

Products ▾

Croma > Home Appliances

4 = Login Page

LoginPageController.java

The screenshot shows a browser window with the title "Login | Apparel Site UK". The address bar displays "localhost:9002/yacceleratorstorefront/en/login". The page content is a "B2C Accelerator" login page. On the right, a code editor shows the Java file "LoginPageController.java" with the following code:

```
30 *  
31 * Login Controller. Handles login and register for the account flow.  
32 */  
33 @Controller  
34 @RequestMapping(value = "/login")  
35 public class LoginPageController extends AbstractLoginPageController  
36 {  
37     private HttpSessionRequestCache httpSessionRequestCache;  
38  
39     @Override  
40     protected String getView()  
41     {
```

On the left, there are two sections: "Create an Account" and "Returning Customer".

Create an Account
For a fast checkout, easy access to previous orders, and the ability to create an address book and store settings. Register below.

Returning Customer
Already have an account? Sign in to retrieve your account settings.

EMAIL ADDRESS

PASSWORD

[Forgot your password?](#)

The screenshot shows a browser window with the title "Login | Apparel Site UK". The address bar displays "localhost:9002/yacceleratorstorefront/en/login". Below it, another tab is open with the URL "reliancedigital.in/signin". The main content area is a "B2C Accelerator" login page for RelianceDigital. The page features a red header with the RelianceDigital logo and navigation links like "OUR BRAND PROMISE", "EASY RETURN", "NEXT DAY DELIVERY", "SERVICE GUARANTEE", and "UNMAT". The main form has fields for "TITLE" and "EMAIL ADDRESS", and a "Login" button.

5 = Product Details Page [PDP]

ProductPageController.java

The screenshot shows a SAP CX storefront for a 'Faded Droid Cap white Uni' with ID 300564390. The product is described as 'The droid. Faded Cap let you never fade away.' It is made of 97% Cotton 3% spandex and is available in white. The price is £11.30. The Java code for ProductPageController.java is visible in the browser's developer tools, with a green arrow pointing from the top navigation bar to the code.

```
ProductPageController.java
1 * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
2 package de.hybris.platform.yacceleratorstorefront.controllers.pages;
3
4 import de.hybris.platform.acceleratorfacades.futurestock.FutureStockFacade;
5
6
7 /**
8  * Controller for product details page
9  */
10 @Controller
11 @RequestMapping(value = "/**/p")
12 public class ProductPageController extends AbstractPageController
13 {
14     /**
15      * @SuppressWarnings("unused")
16     private static final Logger LOG = Logger.getLogger(ProductPageController.class);
17 }
```

The screenshot shows a Reliance Digital storefront for a 'Kampai Jacket black/black/dark' with Article ID 491134739. The URL in the browser's address bar is reliancedigital.in/sony-ht-iv300-1000-watts-5-1-channel-home-theater-system/p/491134739. The page includes a search bar, navigation links for mobiles, television, home appliances, computers, cameras, and kitchen appliances, and a footer with links for mobiles, tablets, television, audio, home appliances, computers, cameras, and kitchen appliances.

6 = Cart Page

CartPageController.java

The screenshot shows a browser window with the URL localhost:9002/yacceleratorstorefront/en/cart. The title bar indicates "Not secure". The page is titled "B2C Accelerator". On the left, there's a search bar with "I'm looking for" and a navigation menu with links to BRANDS, STREETWEAR, SNOW, and ACCESSORIES. Below the menu, it says "HOME / BAG". A "Bag" item is listed with ID: 00003000. The main content area displays the Java code for `CartPageController.java`:

```
1 * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
2 package de.hybris.platform.yacceleratorstorefront.controllers.pages;
3
4 import de.hybris.platform.acceleratorfacades.cart.action.CartEntryAction;
5
6 /**
7  * Controller for cart page
8 */
9 @Controller
10 @RequestMapping(value = "/cart")
11 public class CartPageController extends AbstractCartPageController
12 {
13     public static final String SHOW_CHECKOUT_STRATEGY_OPTIONS = "storefront.show.checkoutStrategyOptions";
14     public static final String ERROR_MSG_TYPE = "errorMsg";
15     public static final String SUCCESSFUL_ORDERIFICATION_CODE = "success";
16 }
```

Below the code, there are two buttons: "CONTINUE SHOPPING" and "CHECK OUT".

The screenshot shows a browser window with the URL localhost:9002/yacceleratorstorefront/en/cart. The title bar indicates "Not secure". The page is titled "B2C Accelerator". It shows a shopping cart table with one item:

ITEM (STYLE NUMBER)	PRICE	QTY	DELIVERY
Ginga Cap white SM 300604627 Style: white Size: SM	£28.31	1	SHIP £

At the bottom, there's a "CONTINUE SHOPPING" button.

The screenshot shows a browser window with the URL reliancedigital.in/cart. The title bar indicates "Not secure". The page is titled "B2C Accelerator". It shows a shopping cart table with one item:

ITEM (STYLE NUMBER)	PRICE	QTY	DELIVERY
Ginga Cap white SM 300604627 Style: white Size: SM	£28.31	1	SHIP £

At the bottom, there's a "CONTINUE SHOPPING" button.

7 = Checkout Page

Checkout*Controller.java

The screenshot shows a browser window with two tabs. The left tab displays the Java code for `CheckoutController.java`, which includes annotations like `@Controller` and `@RequestMapping`. The right tab shows the UI of a B2C Accelerator storefront. The UI includes a header with 'B2C Accelerator' and a search bar. Below the header is a navigation menu with 'BRANDS', 'STREETWEAR', 'SNOW', 'ACCESSORIES', and 'YOU'. The main content area is titled 'Secure Checkout' and shows '1. Shipment/Pick Up Location'. It lists a shipment with 2 items: 'Multilogo Good Looking SS Women heather grey S' and 'Ginga Cap white SM'. To the right, there's a 'Order Summary' section with a table showing the items and their details. A green arrow points from the code tab to the UI tab.

The screenshot shows a browser window with two tabs. The left tab displays the Java code for `CheckoutController.java`. The right tab shows the UI of a Reliance Digital storefront. The UI includes a header with 'Reliance Digital' and a search bar. Below the header is a navigation menu with 'BRANDS', 'STREETWEAR', 'SNOW', 'ACCE'. The main content area is titled 'Secure Checkout' and shows '1. Shipment/Pick Up Location'. It lists a shipment with 3 items: 'Incision Leather Belt shadow grey SM' and 'Kampai Jacket black/black/dark copper X'. To the right, there's a 'LOGIN DETAILS' section with fields for 'Email' and 'Password'. A green arrow points from the code tab to the UI tab.

8 = Order Page

Order*Controller.java

The screenshot shows the Eclipse IDE interface. On the left is the Project Explorer view, which lists various Java packages and configurations. In the center, the code editor displays `Order*Controller.java`. On the right, the Open Resource search bar contains the query `order*controller.java`, and the results pane shows several matching items, including `OrderApprovalController.java`, `OrderApprovalController.java`, `OrderApprovalPermissionsController.java`, `OrderApprovalPermissionTypesController.java`, `OrderApprovalsController.java`, `OrderControllerIntegrationTest.java`, and `OrderEntryOverviewController.java`.

```
20 * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
4 package de.hybris.platform.yacceleratorstorefront.controllers.
5
6 import de.hybris.platform.acceleratorfacades.product.ProductFacade;
30
31
32 /**
33 *
34 */
35 @Controller
36 @RequestMapping(value = "/quickOrder")
37 public class QuickOrderPageController extends AbstractSearchPageController {
38 {
    private static final Logger LOG = Logger.getLogger(QuickOrderPageController.class);
}
```

9 = My Account Page

AccountPageController.java

The screenshot shows a web browser displaying the address book page at `localhost:9002/yacceleratorstorefront/en/my-account/address-book`. The browser title bar indicates it's a secure connection. Below the title bar, there's a navigation bar with links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The main content area shows the address book for "MR. CHENNA RRRS (DEFAULT)" with entries for Dallas and United Kingdom, along with edit and delete icons. A green arrow points from this part of the screen to the code editor window below.

The code editor window shows the `AccountPageController.java` file:

```
20 * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
4 package de.hybris.platform.yacceleratorstorefront.controllers.
5
6 import de.hybris.platform.acceleratorfacades.ordergridform.OrderGridForm;
85
86
87
88 /**
89  * Controller for home page
90 */
91 @Controller
92 @RequestMapping("/my-account")
93 public class AccountPageController extends AbstractSearchPageController {
94 {
```

Below the browser window, another browser window is shown with the URL `localhost:9002/yacceleratorstorefront/en/`. This window displays the "B2C Accelerator" homepage. At the top right, there are links for "WELCOME CHENNAI", "MY ACCOUNT" (which is circled in green), and "SIGN OUT".

Scenario =

Search Results Page results [Products] comes from **Solr** [**Not from DB**].

Category page results [Products] comes from **Solr** [**Not from DB**].

Q = What are the OOTB Steps (or) functionalities in Checkout Page [B2C]?

URL =

<https://localhost:9002/yacceleratorstorefront/en/checkout/multi/delivery-address/add>

1) Shipping Address / Pick Up location

2) Shipping Methods =

a. Standard Delivery

b. Premium Delivery

3) Payment & Billing Address 4) Final Review

Cert Q = Which of the following are non-functional requirements?

1) Administration 2) Reliability 3) Portability

4) Team management 5) Security 6) All Above

Read = https://en.wikipedia.org/wiki/Non-functional_requirement

Cert Q = What business analyst do?

1) Functional Requirements 2) Portability Requirements

3) End User Requirements 4) Non-Functional Requirements

5) All Above

SAP Comm Certification Details

URL = <https://cxwiki.sap.com/display/education/Certification+Exams>

- 1) Developer [Technical]
- 2) Business User [BA / Fun]
- 3) Product Support Specialist [PSS]

<https://training.sap.com/certification/validity>

Snow Jackets | Snowwear men | X SAP List of Valid Certifications X +

← → C training.sap.com/certification/validity

E_S4HCON2022 - SAP Certified Technology Specialist - SAP S/4HANA Conversion and SAP System Upgrade

P_C4HCD_1905 - SAP Certified Development Professional - SAP Commerce Cloud 1905 Developer

View Details

P_C4HCD_1905

SAP Certified Development Professional - SAP Commerce Cloud 1905 Developer

Delivery Methods:	Certification	Exam:	80 questions
Level:	Professional	Sample Questions:	View more
		Cut Score:	61%
		Duration:	180 mins
		Languages:	English

training.sap.com/certification/p_c4hcd_1905-sap-certified-development-professional---sap-commerce-cloud-1905-developer-g/

Description

- The "SAP Certified Development Professional - SAP Commerce Cloud 1905 Developer" certification exam validates that the candidate possesses the required level of knowledge to work effectively with the SAP Commerce Cloud Suite 1905. This certification proves that the candidate has an overall understanding and in-depth technical skills to participate as a member of a project team. The scope of SAP Commerce Cloud knowledge in the courses stated within "Topic Areas" is narrower than the scope of knowledge checked in the certification questions. In addition to the courses stated as covering the topics within "Topic Areas", as preparation for this certification exam, candidates must also study the SAP

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Book this product to consume within Certification Hub

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CER006 - SAP Global Certification
Online Exam, Six Attempts

United States of America

Certification Hub Subscription
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We get an account when we take “Certification Hub Subscription”.

This account is valid for 1 year.

Certification Hub Subscription is valid for 1 year.

Anytime within **1 year** we can able to write **6 exams** for the Valid list.

July 1st – YYY person is writing [1st chance] Developer Certificate [Version **1905**] = Fail (5 More chances).

July 2nd – YYY person is writing [2nd chance] Developer Certificate [Version **1905**] = Fail (4 More changes).

July 3rd – YYY person is writing [3rd chance] Developer Certificate [Version **1905**] = Fail (3 More changes).

Now – YYY is **not eligible** to write Developer certificate [Version **1905**].

If any new version [Version 2011] developer certificate comes then again, YYY person can write 3 times. That means – Any version max 3 attempts.

On July 1st – YYY person is writing [1st chance] Dev Cert & Passed = 5 More chances there.

On July 2nd – YYY person is writing [1st chance] Business User & Passed = 4 More chances there.

On July 3rd – YYY person is writing [1st chance] PSS & Passed = 3 More chances there.

Remaining 3 more chances you use to write other from List of valid certifications [SAP Fiori... SAP HANA ...].

Let's say – You have 2 more changes ... But account validity 1 year is over, then we can't write any. So, use all 6 chances within validity [1 year].

====> Certification you can write Online (From Home itself you can).

Scenario = Let's say – U are saying, I am working as "SAP Comm" developer for "**Lenovo**" company.

People may ask the Q = Is that Site Live.

If you say yes, then they may ask the Site URL.

By looking at the site URL, people can identify site is developed using SAP **Comm / not**.

Example = <https://www.lenovo.com/us/en>

Q = How to find Site is developed using "SAP Comm" / not?

Solution 1 = Category Page URL's

By default, "SAP Comm" Category Page URL's ends with "**/c/c#** (or) **/c/cname**".

OOTB =

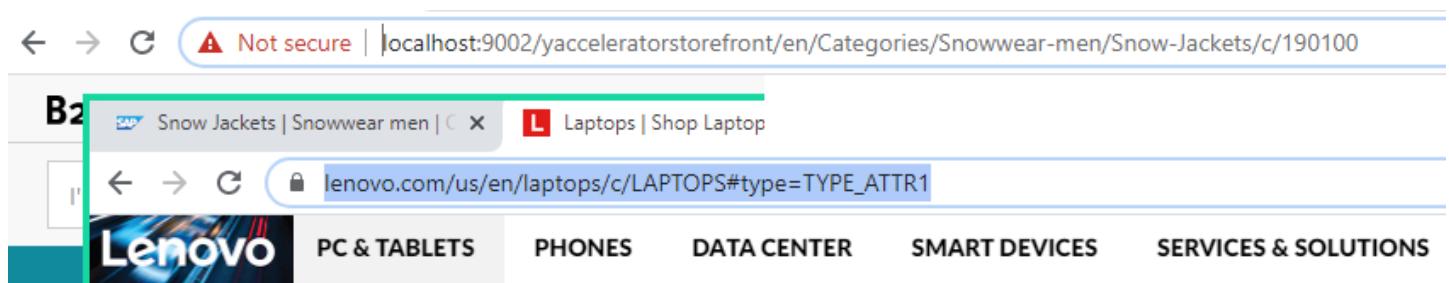
<https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100>

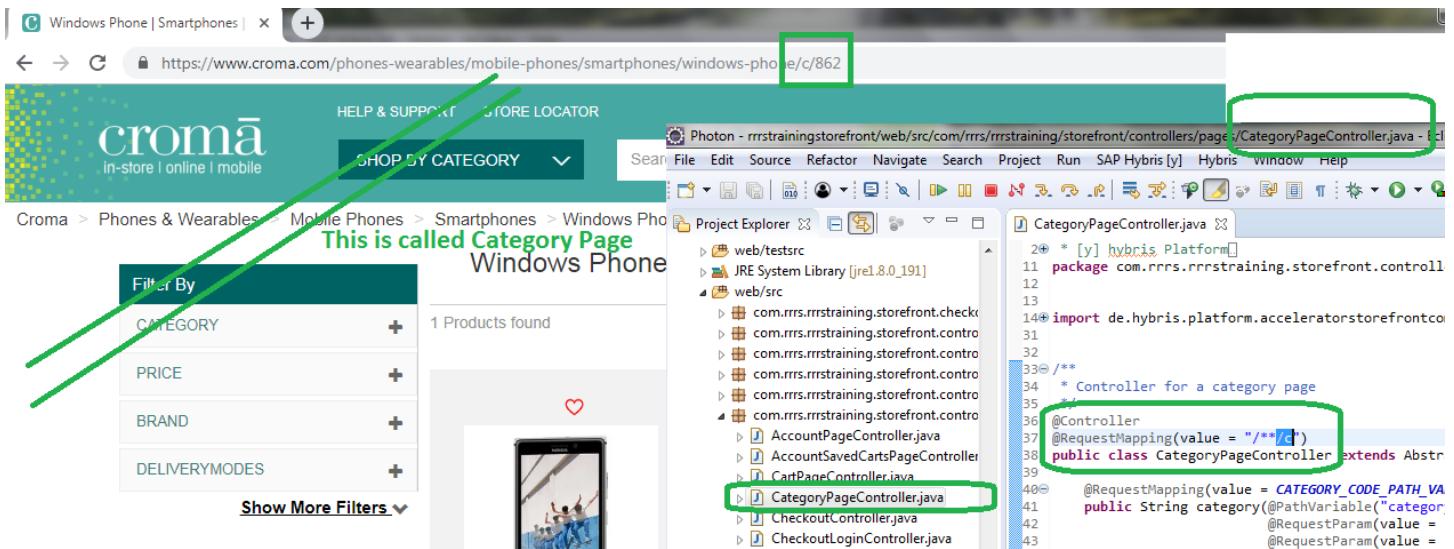
Lenovo =

https://www.lenovo.com/us/en/laptops/c/LAPTOPS#type=TYPE_ATTR1

Croma =

<https://www.croma.com/kitchen-appliances/c/864>





Solution 2 = Product Page URL's

By default, “SAP Comm” Product Page URL’s ends with “**/p/p#** (or) **/p/pname**”.

OOTB =

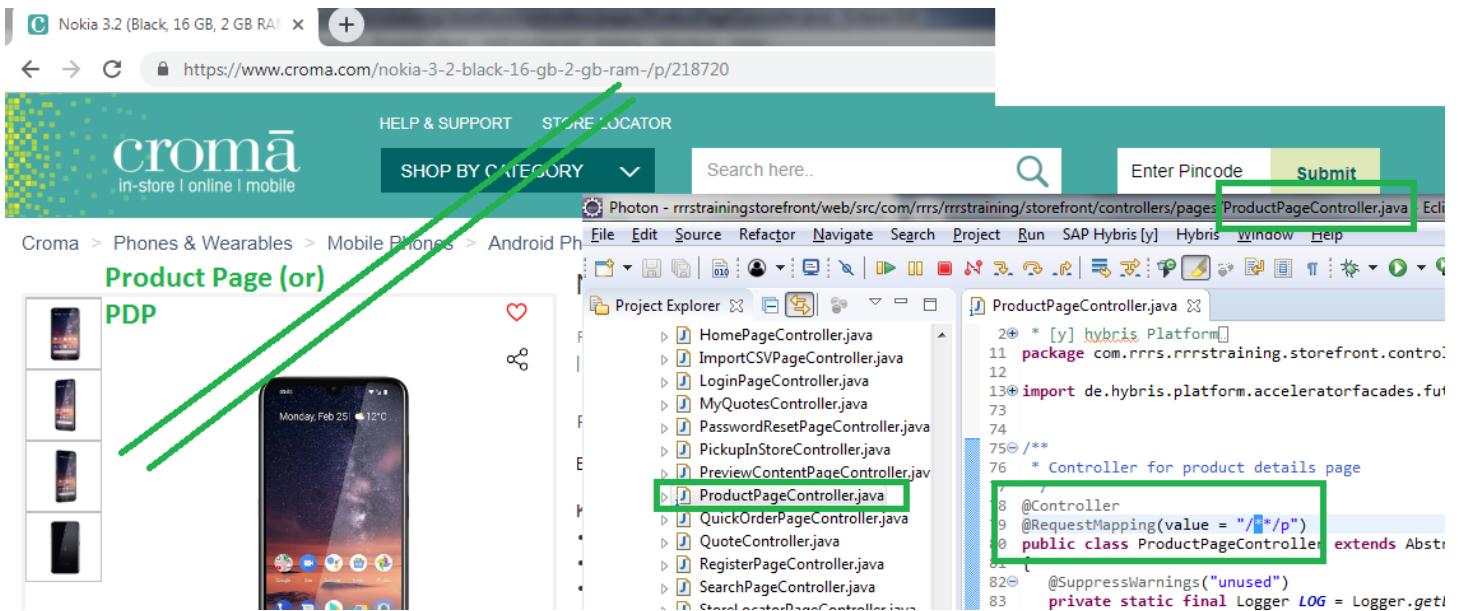
<https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Last-Mission-Jacket/p/300460184>

Lenovo =

<https://www.lenovo.com/us/en/laptops/thinkpad/thinkpad-x1/X1-Carbon-Gen-8-/p/22TP2X1X1C8>

Croma =

<https://www.croma.com/wonderchef-turbo-1-7-litres-chopper-suitable-for-fruits-+-vegetable-3-blades-63152432-black-/p/233680>



Note = Some companies will not have **/c** in Category page URL's.

And also, will not have **/p** in Product page URL's.

Bcoz of having **/c or /p** in the URL's will not add values for **SEO**.

Example = OCM Site

Category Page = <https://www.ocm.com/dorm-life/bath/bath-mats>

Product Page = <https://www.ocm.com/product/cushioned-bath-mat-2147731039?list=product%20listing%20page&lob=dorm-life&category=bath&subCategory=bath-mats#main-content>

To have better SEO implementation – some companies **override /c or /p** behavior.

The screenshot shows a code editor with the file 'commerceServices-spring.xml' open. The code defines two beans: 'defaultCategoryModelUrlResolver' and 'defaultProductModelUrlResolver'. Both beans are of type 'DefaultCategoryModelUrlResolver' and 'DefaultProductModelUrlResolver' respectively, from the package 'de.hybris.platform.commerceservices.url.impl'. They both reference 'threadContextService', 'commerceCategoryService', and 'baseSiteService'. The 'pattern' property for the category resolver is set to '{category-path}/c/{category-code}', and for the product resolver, it is set to '{category-path}/{product-name}/p/{product-code}'. A tooltip for 'productAndCategoryHelper' is visible.

```
892 <alias name="defaultCategoryModelUrlResolver" alias="categoryModelUrlResolver"/>
893 <bean id="defaultCategoryModelUrlResolver"
894     class="de.hybris.platform.commerceservices.url.impl.DefaultCategoryModelUrlResolver">
895     <property name="threadContextService" ref="threadContextService"/>
896     <property name="commerceCategoryService" ref="commerceCategoryService"/>
897     <property name="baseSiteService" ref="baseSiteService"/>
898     <property name="pattern" value="/{category-path}/c/{category-code}"/>
899 </bean>
900
901 <alias name="defaultProductModelUrlResolver" alias="productModelUrlResolver"/>
902 <bean id="defaultProductModelUrlResolver"
903     class="de.hybris.platform.commerceservices.url.impl.DefaultProductModelUrlResolver">
904     <property name="threadContextService" ref="threadContextService"/>
905     <property name="commerceCategoryService" ref="commerceCategoryService"/>
906     <property name="baseSiteService" ref="baseSiteService"/>
907     <property name="defaultPattern" value="/{category-path}/{product-name}/p/{product-code}"/>
908     <property name="productAndCategoryHelper" ref="productAndCategoryHelper"/>
909 </bean>
910
911
```

The screenshot shows a code editor with two tabs: 'DefaultCategoryModelUrlResolver.java' and 'DefaultProductModelUrlResolver.java'. The code implements the 'ModelUrlResolver' interface. It starts by getting the current base site. Then, it replaces placeholders in the pattern: '{baseSite-uid}' with the current base site's uid, '{category-path}' with the category path, '{product-name}' with the product name, and '{product-code}' with the product code. The 'urlSafe' method is used to handle the product name.

```
String url = getPattern();
if (currentBaseSite != null && url.contains("{baseSite-uid}"))
{
    url = url.replace("{baseSite-uid}", urlEncode(currentBaseSite.getUid()));
}
if (url.contains("{category-path}"))
{
    url = url.replace("{category-path}", buildPathString(getCategoryPath(baseProduct)));
}
if (url.contains("{product-name}"))
{
    url = url.replace("{product-name}", urlSafe(baseProduct.getName()));
}
if (url.contains("{product-code}"))
{
    url = url.replace("{product-code}", urlEncode(source.getCode()));
}
```

The screenshot shows a code editor with three tabs: 'ProductPageController.java', 'ProductPageController.java', and 'CategoryPageController.java'. The 'ProductPageController.java' tab shows a controller for product details pages. The 'CategoryPageController.java' tab shows a controller for category pages, extending 'AbstractCategoryPageController'. It has a single method 'categoryByCode' that takes a 'categoryCode' parameter. The 'ProductPageController.java' tab also shows annotations for the controller and its methods.

```
66
67
68 /**
69  * Controller for product details page
70 */
71 @Controller
72 @RequestMapping(value = "**/p")
73 public class ProductPageController extends AbstractPageController {
74
75     @SuppressWarnings("unused")
```

```
23
24 /**
25  * Controller for a category page
26 */
27 @Controller
28 @RequestMapping(value = "**/c")
29 public class CategoryPageController extends AbstractCategoryPageController {
30     @RequestMapping(value = CATEGORY_CODE_PATH_VARIABLE_PATTERN, method = RequestMethod.GET)
31     public String categoryByCode(@PathVariable("categoryCode") final String categoryCode) { // NOSONAR
32         return "categoryByCode"; // NOSONAR
33     }
34 }
```

Q = If URL does not have /p/p# (or) /c/c# then is there any way to find site is developed using SAP Comm / Not?

Solution 3 = SAP Comm OOTB -- JS files will be “acc.yyy.js” format.

Example =

acc.cart.js

acc.checkout.js

acc.cms.js

The screenshot shows a browser developer tools window with the 'Sources' tab selected. The search bar at the top has 'acc.c' typed into it. Below the search bar, a list of JavaScript files is displayed, each with its file name, host, and path. The files listed are:

- acc.cms.js
- acc.cart.js
- acc.common.js
- acc.consent.js
- acc.carousel.js
- acc.cartitem.js
- acc.checkout.js

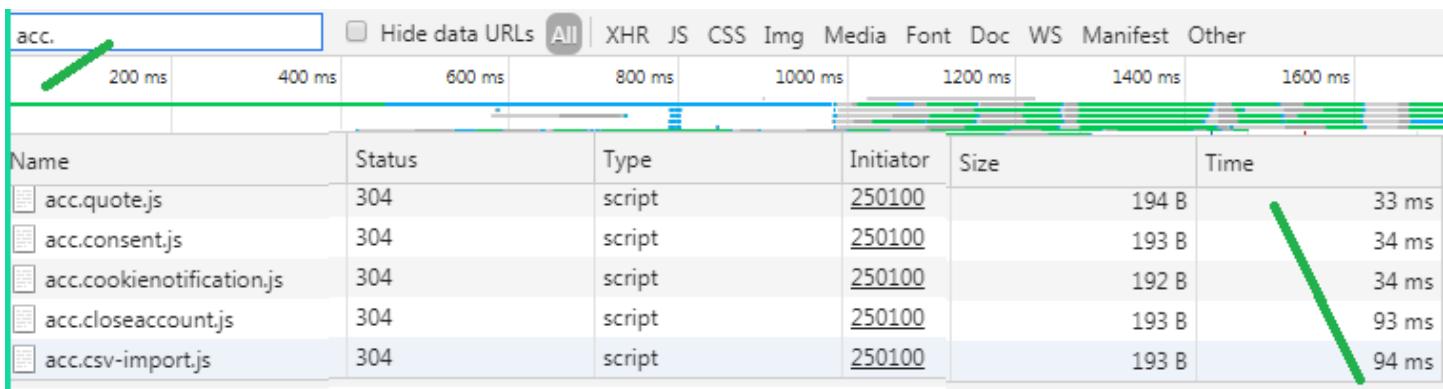
The screenshot shows a browser developer tools window with the 'Sources' tab selected. The search bar at the top has 'acc.cart' typed into it. Below the search bar, a list of JavaScript files is displayed, each with its file name, host, and path. The files listed are:

- acc.cart.js
- acc.cartitem.js
- acc.checkout.js
- acc.savedcarts.js

Note = SAP Comm provides **lots of JS** files.

Each JS file will be loaded into frontend & it takes time for loading.

This will impact the **site performance**, because each JS file will be loaded & takes the time.



Note = To reduce loading time (or) Improve the performance, company will do the **minification**.

We have different types of minification [To improve performance]: -

1) JS minification

2) CSS minification

3) Image binary

4) ===

For minification purpose – We can use some 3rd party tools (or) Grunt.

Example

```
ACC.cart = {
  _autoload: [
    "bindHelp",
    "cartRestoration",
    "bindCartPage",
    "bindMultiDEntryRemoval",
    "bindMultiIdCartProduct",
    ["bindApplyVoucher", $("#js-voucher-apply-btn").length != 0],
    ["bindToReleaseVoucher", $("#js-applied-vouchers").length != 0]
  ],
}
```

Input JavaScript

```

"bindHelp",
"cartRestoration",
"bindCartPage",
"bindMultiDEntryRemoval",
"bindMultidCartProduct",
["bindApplyVoucher", $("#js-voucher-apply-btn").length != 0],
["bindToReleaseVoucher", $("#js-applied-vouchers").length != 0]
],
bindHelp: function () {
$(document).on("click", ".js-cart-help", function (e) {

```

Minified Output

```

ACC.cart=_autoload;
["bindHelp","cartRestoration","bindCartPage","bindMultiDEntryRemoval","bindMultidCartProduct","[bindApplyVoucher",0!=($("#js-voucher-apply-btn").length),bindHelp:function(){$(document).on("click",".js-cart-help",function(t){t.preventDefault();var e=$(this).data("help");ACC.colorbox.open(ACC.common.encodeHtml(e),{html:$(".js-help-popup-content").text(),width:"300px"}))},cartRestoration:function(){$(".cartRestoration").click(function(){var t=$(this).data("cartUrl");window.location=t});bindCartPage:function(){$(document).on("click",".js-show-editable-grid",function(t){ACC.cart.populateAndShowEditableGrid(this,t)});bindMultiDEntryRemoval:function()

```

Assume that -- 4500 Chars

Here -- It can be 3200 Chars

Note = “SAP Comm” comes with minification feature.

Q = How to use “SAP Comm” minification?

B2C Accelerator

I'm looking for

Before "SAP Comm" Minification

- BRANDS
- STREETWEAR
- SNOW
- ACCESSORIES
- YOUTH

Elements Console Sources Network Performance Memory Application Security Lighthouse

Page Filesystem >:

- top
- localhost:9002
 - yacceleratorstorefront
 - _ui
 - en
 - (index)
 - media
- fonts.googleapis.com
- fonts.gstatic.com
- ssl.google-analytics.com

acc

- acc.cms.js
- acc.cart.js
- acc.tabs.js
- acc.order.js
- acc.track.js
- acc.quote.js

hybris administration console

You're Administrator [logout](#)

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Classpath Analyzer

New key...	New value...	add
storefront.wro4j.enabled	true	remove checkmark

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By default “storefront.wro4j.enabled” = **false** [No minification]

storefront.wro4j.enabled = **true** [Minification Enabled].

The screenshot shows a browser window with two tabs: "Apparel Site UK | Homepage" and "SAP CX Backoffice". The URL is "localhost:9002/yacceleratorstorefront/en/". The SAP CX Backoffice tab displays the "B2C Accelerator" storefront. A green arrow points from the text "Results after Minification applied" to the list of files in the "Sources" panel. The "Sources" panel lists several files under the "en" folder, including "all_responsive.js", "all_responsive.css", "alpha_responsive.css", and "addons_responsive.js". The "Sources" tab is selected, and other tabs like "Elements", "Console", "Network", "Performance", "Memory", "Application", "Security", and "Lighthouse" are visible.

Note = If Minification is enabled then **it's difficult to debug the JS code**.

That's why in real time, we have the logic like: -

If (storefront.wro4j.enabled = true)

Do minification & load minification files

Else

Directly load the normal JS files [No minification]

ConfigWro4jBeforeViewHandler.java

```

18 */
19 public class ConfigWro4jBeforeViewHandler implements BeforeViewHandler
20 {
21     private SiteConfigService siteConfigService;
22
23     protected SiteConfigService getSiteConfigService()
24     {
25         return siteConfigService;
26     }
27
28     @Required
29     public void setSiteConfigService(final SiteConfigService siteConfigService)
30     {
31         this.siteConfigService = siteConfigService;
32     }
33
34     @Override
35     public void beforeView(final HttpServletRequest request, final HttpServletResponse response, final ModelAndView modelAndView)
36             throws Exception
37     {
38         modelAndView.addObject("wro4jEnabled",
39             Boolean.valueOf(getSiteConfigService().getBoolean("storefront.wro4j.enabled", false)));
40     }
41 }

```

javaScript.tag

```

1 <%@ tag body-content="empty" trimDirectiveWhitespaces="true" %>
2 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
3 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>
4
5 <%@ taglib prefix="cms" tagdir="/WEB-INF/tags/responsive/template/cms" %>
6 <%@ taglib prefix="template" tagdir="/WEB-INF/tags/responsive/template" %>
7
8 <template:javaScriptVariables/>
9
10 <c:set var="commonResourcePathHtml" value="${fn:escapeXml(commonResourcePath)}"/>
11 <c:choose>
12     <c:when test="${wro4jEnabled}">
13         <script src="${fn:escapeXml(contextPath)}/wro/all_responsive.js"></script>
14         <script src="${fn:escapeXml(contextPath)}/wro/addons_responsive.js"></script>
15     </c:when>
16     <c:otherwise>
17         <%-- jquery --%>
18         <script src="${commonResourcePathHtml}/js/jquery-3.5.1.min.js"></script>
19
20         <%-- plugins --%>
21         <script src="${commonResourcePathHtml}/js/acc.address.js"></script>
22         <script src="${commonResourcePathHtml}/js/acc.autocomplete.js"></script>
23         <script src="${commonResourcePathHtml}/js/acc.carousel.js"></script>
24         <script src="${commonResourcePathHtml}/js/acc.cart.js"></script>

```

styleSheets.tag

```

1 <%@ tag body-content="empty" trimDirectiveWhitespaces="true" %>
2 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
3 <%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>
4
5 <%@ taglib prefix="cms" tagdir="/WEB-INF/tags/responsive/template/cms" %>
6
7 <link rel="stylesheet" type="text/css" href="//fonts.googleapis.com/css?family=O,
8 <c:choose>
9     <c:when test="${wro4jEnabled}">
10         <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
11             ${commonResourcePathHtml}/css/wro4j.css
12         )}">
13     </c:when>
14     <c:otherwise>
15         <%-- Theme CSS files --%>
16         <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
17             ${commonResourcePathHtml}/css/theme.css
18         )}">
19         <c:forEach items="${addonCommonCssPaths}" var="addOnCommonCss">
20             <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeX
21         </c:forEach>
22     </c:otherwise>
23 </c:choose>

```

Project Explorer | Package Explorer

Gruntfile.js

```

10     files: ['${webroot}/WEB-INF/_ui-src/responsive/ttu/yuester-0.1.0/js/ - .js'],
11     tasks: ['sync:syncbase'],
12 },
13     jquery: {
14         files: ['${webroot}/WEB-INF/_ui-src/responsive/lib/jquery*.js'],
15         tasks: ['sync:syncjquery'],
16     },
17 },
18     less: {
19         default: {
20             files: [
21                 {
22                     expand: true,
23                     cwd: '${webroot}/WEB-INF/_ui-src/',
24                     src: '**/themes/**/less/style.less',
25                     dest: '${webroot}/_ui/',
26                     ext: '.css',
27                     rename: function(dest,src){
28                         var nsr = src.replace(new RegExp("/themes/(.+)/less"), "/theme-$1.css");
29                         return dest+nsr;
30                     }
31                 }
32             ]
33         }
34     }
35 }

```

Before minification [No of JS files, No of CSS files and ...]

The screenshot shows the Network tab in the Chrome DevTools. A red arrow points from the text "Before Applying "SAP Comm" provided Minification." to the table below. The table lists three script requests:

Name	Status	Type	Initiator	Size	Time	Waterfall
cpq.analyticshandler.js	304	script	190100	202 B	56 ms	
cpq.ddlhandler.js	304	script	190100	202 B	31 ms	
cpq.variantsearchhandler.js	304	script	190100	202 B	30 ms	

At the bottom of the table, it says "110 / 165 requests | 22.0 kB / 135 kB transferred".

Before minification [No of JS files, No of CSS files and ...]

The screenshot shows the Network tab in the Chrome DevTools. A green box highlights the table below, and the text "After minification applied" is written above it. The table lists three script requests:

Name	Status	Type	Initiator	Size	Time	Waterfall
generatedVariables.js	304	script	190100	201 B	16 ms	
all_responsive.js	304	script	190100	157 B	15 ms	
addons_responsive.js	304	script	190100	157 B	13 ms	

At the bottom of the table, it says "5 / 40 requests | 717 B / 95.2 kB transferred".

Scenario = How to check / monitor the performance of the site (or) page before (or) after minification applied.

== We can 3rd party tools (or) We use **Lighthouse** browser plugin.

The screenshot shows the B2C Accelerator dashboard. At the top, there's a search bar with "I'm looking for" and a magnifying glass icon. Below the search bar is a navigation menu with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. Underneath the menu, a breadcrumb trail shows the current location: HOME / CATEGORIES / SNOWWEAR WOMEN / SNOW JACKETS WOMEN / TABLOID JACKET WOMEN. The main content area has tabs for Elements, Console, Sources, Network, Performance, Memory, Application, Security, and Lighthouse. The Lighthouse tab is highlighted with a green box and a green arrow pointing to it from below. To the right of the tabs is a sidebar with sections for Categories (Performance, Progressive Web App, Best practices, Accessibility, SEO) and Device (Mobile, Desktop). A large blue button labeled "Generate report" is visible in the center.

Results = Before minification applied: -

This screenshot shows the same B2C Accelerator dashboard as above, but the Lighthouse report has been generated. The main content area displays the results of the Lighthouse audit. A large green arrow points to the "Performance" score of 41. Below the scores are labels: Performance (41), Accessibility (72), Best Practices (100), SEO (70), and Progressive Web App (?). The URL in the address bar is https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-women/Snow-Jackets-women/Tabloid-Jacket-Women/p/300412384.

Now enable minification =

Not secure | localhost:9002/platform/config

You're Administrator [logout](#)

Platform Monitoring Maintenance Console

Tenants **Configuration** System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Classpath Analyzer

apply all reset all Show unsaved only: OFF

Show 10 entries Search: wro

Key	Value
New key...	Apply Minification
storefront.wro4j.enabled	true
yacceleratorstorefront.wro4jconfigscan.adaptivesearchsamplesaddon	true

Results = After minification applied: -

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / SNOWWEAR WOMEN / SNOW JACKETS WOMEN / TABLOID JACKET WOMEN

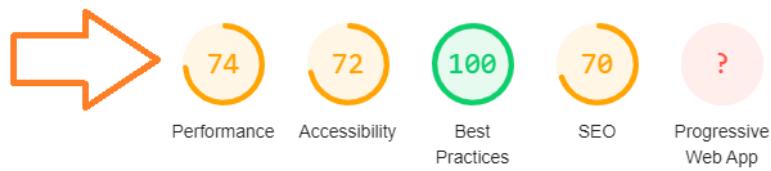
Tabloid Jacket Women academy M | ID 300412384

Product review summary

Elements Console Sources Network Performance Memory Application Security Lighthouse

10:38:12 PM - localhost:9002

https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-women/Snow-Jackets-women/Tabloid-Jacket-Women/p/300412384



Metrics

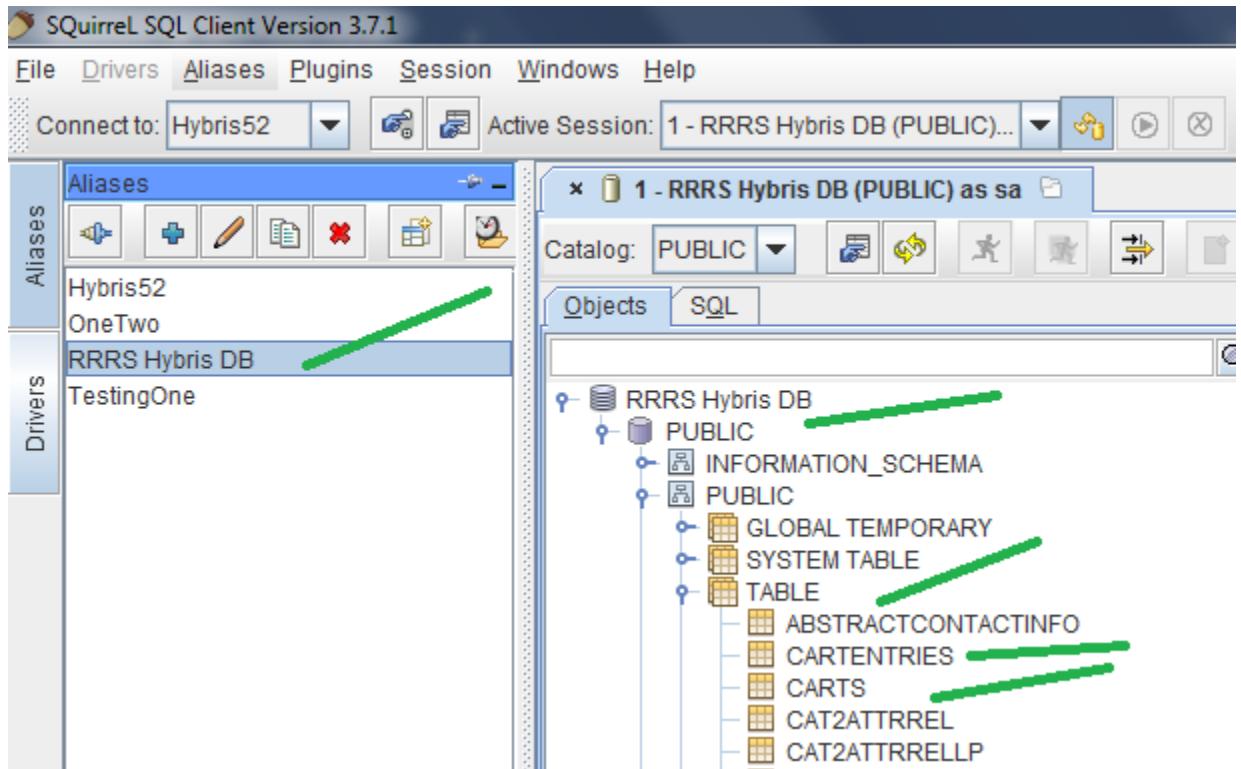
Metric	Score	Impact	
First Contentful Paint	1.2 s	Time to Interactive	2.1 s
Speed Index	2.1 s	Total Blocking Time	740 ms
Largest Contentful Paint	1.2 s	Cumulative Layout Shift	0.007

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Scenario = “SAP Comm” provides lots of tables [these tables created based on *-items.xml]. How to see those tables (or) tables data?

Solution 1 = We can use 3rd party tools & connect to “SAP Comm” DB and see the tables (or) tables data.

Example = Squirrel client



Solution 2 = hAC

The screenshot shows the hybris administration console (hAC) interface. At the top, there are tabs for Platform, Monitoring (which is highlighted with a green box), Maintenance, and Console. Below that, a sub-navigation bar includes Cache, Cluster, Database (which is highlighted with a green box), Cron Jobs, JMX MBeans, Memory, Thread Dump, Performance, and Suspend. The main content area is titled 'Database' and contains a 'Table size' section. It shows a table with three rows: 'PRODUCTS' (716 rows), 'PRODUCTS1SN' (18713 rows), and 'PRODUCTS4RESTRI1081SN' (0 rows). A green arrow points from the text 'List of the tables & Number of records.' to the 'PRODUCTS' row in the table. A search bar at the top right is set to 'products'.

The screenshot shows the hybris administration console interface. At the top, there are tabs for Platform, Monitoring, Maintenance, and Console, with Console being the active tab and highlighted with a green box. Below the tabs, there are links for Scripting Languages, FlexibleSearch (which is also highlighted with a green box), ImpEx Import, ImpEx Export, and LDAP. The main area is titled "Table & Record details". A sub-section titled "FlexibleSearch query" contains a code editor with the following SQL query:

```
SELECT {pk}, {code},{name[de]} FROM {Product}
```

To the right of the code editor is a "FlexibleSearch" results table with the following data:

PK	P_CODE	P_NAME
8796093054977	300441142	Kappe Blue Tomato BT Snow Trucker Cap black
8796093877569	300022356	Snowboard Ski Tool Toko Ergo Speed Top 88°/89°

Solution 3 = Backoffice

The screenshot shows the SAP Administration Cockpit. On the left, there is an "Explorer Tree (or) Left Navigation" sidebar with the following structure:

- Home
- Inbox
- System
- Catalog
 - Catalogs
 - Catalog Versions
 - Categories
- Products

The "Tables" section is highlighted with a green box and labeled "Tables". The main area is titled "Table Records" and contains a list of tables with their names and sync status:

Identifier	Name	Sync status
CPQConfigurableCategory	CPQ Configurable Category	Green circle
CONF_HOME_THEATER_ML	CONF_HOME_THEATER_ML	Green circle
CONF_CAMERA_SL	CONF_CAMERA_SL	Green circle
CPQConfigurableCategory	CPQ Configurable Category	Green circle
engraving_smallFont		Green circle

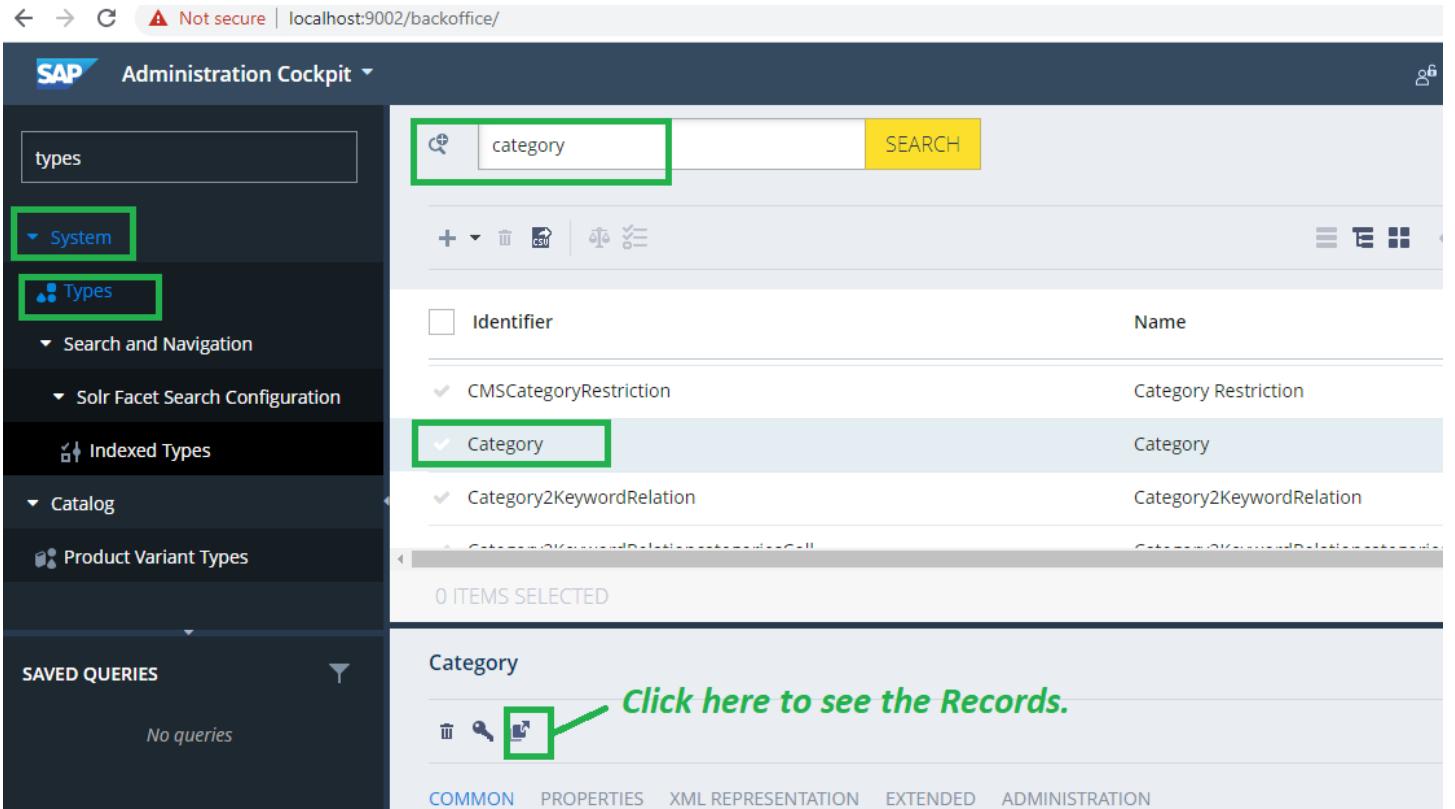
Note = In explorer tree (or) Left navigation – we may not see all the “SAP Comm” tables.

We mostly see the important tables [Cart ... Order ... Product ... Category ... Catalog ... Pricing ... Media and ...].

Q = How to see the all the “SAP Comm” provided tables from Backoffice?

-- System – Types – Enter [Category] – Search

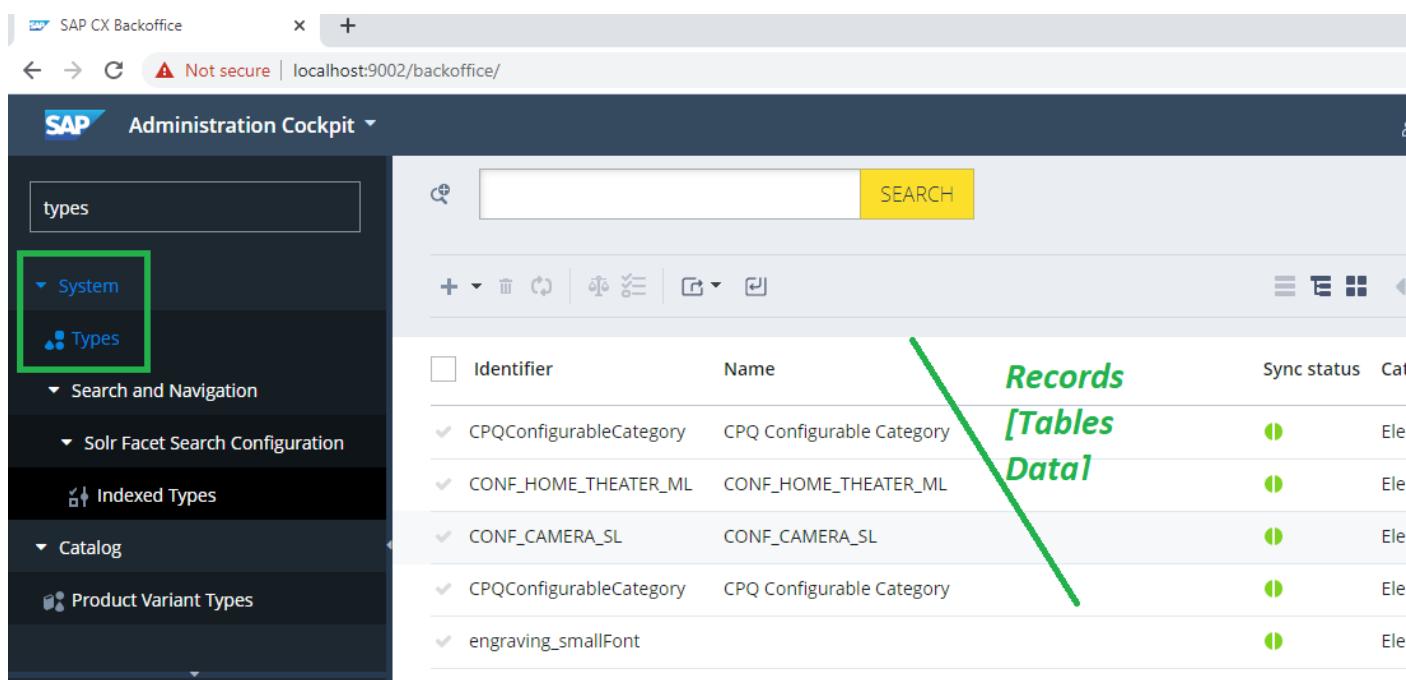
Select [Category] -- 



The screenshot shows the SAP Administration Cockpit interface. On the left, the navigation sidebar is expanded, showing 'System' and 'Types' under 'Indexed Types'. In the center, a search bar has 'category' entered. Below the search bar, a table lists several entries, with 'Category' checked in the first row. At the bottom, there is a 'Category' section with a 'Click here to see the Records.' button and a 'COMMON' tab selected.

Identifier	Name
CMSCategoryRestriction	Category Restriction
<input checked="" type="checkbox"/> Category	Category
Category2KeywordRelation	Category2KeywordRelation

Click here to see the Records.



The screenshot shows the SAP CX Backoffice interface. The navigation sidebar is identical to the one above. The search bar also has 'category' entered. Below the search bar, a table lists several entries, with 'Category' checked in the first row. A large green arrow points from the 'Category' text in the table to the 'Records [Tables Data]' text at the bottom right of the screen.

Identifier	Name	Sync status	Catalog
CPQConfigurableCategory	CPQ Configurable Category	●	Electron
CONF_HOME_THEATER_DL	CONF_HOME_THEATER_DL	●	Electron
CONF_CAMERA_SL	CONF_CAMERA_SL	●	Electron
CPQConfigurableCategory	CPQ Configurable Category	●	Electron
engraving_smallFont		●	Electron

Note = We mostly see the important tables [Cart ... Order ... Product ... Category ... Catalog ... Pricing ... Media and ...] in “Explorer tree (or) Left navigation”. **Q** = Can we able to see other tables if required in “Explore tree (or) Left navigation”?

Ans = Yes. It's possible by doing the Backoffice customization.

Example =

The screenshot illustrates the process of customizing the SAP CX Backoffice. At the top, a file explorer window shows the path: Data (E:) > rrrssoftware > hybris > bin > custom > chennarrstraining > chennarrstrainingbackoffice > resources. A file named chennamrstrainingbackoffice-backoffice-config.xml is open in a code editor, displaying XML configuration code. Below this, a browser window titled "SAP CX Backoffice" is open at the URL localhost:9002/backoffice/. The page displays the SAP Administration Cockpit interface. On the left, a navigation sidebar lists various backoffice modules: Home, Inbox, System, Catalog, Multimedia, User, and Order. The Catalog module is currently selected. The main content area features an "Explorer tree" with two main categories: Taxonomy and SAP Codelist. The Taxonomy category includes nodes like About Us, Area Region, Catalog (with sub-nodes Product Family, Product Family Category), Distributor (with sub-nodes Territory, Territory Location, Distributor, Country Categorization, Categorization), and Locations (with sub-nodes Location, Telephone). The SAP Codelist category includes nodes like AES Classification, Country Specific Values, Customer Distinction, Auto Adjust Pay Terms, Billing Document Type, Condition Type, Customer Type, Delivery Type, Descriptive Text, Document Type, Legal Entity, Payment Terms, and Payment Term Options. A search bar is located at the top right of the cockpit interface.

Q = How to see the table Columns?

This screenshot shows the SAP Administration Cockpit interface. The left sidebar is collapsed, showing a search bar with 'types' and a navigation tree with 'System', 'Types', 'Search and Navigation', 'Solr Facet Search Configuration', 'Indexed Types', 'Catalog', and 'Product Variant Types'. A 'SAVED QUERIES' section indicates 'No queries'. The main area has a search bar with 'category' and a 'SEARCH' button. Below it is a table with columns 'Identifier', 'Name', and 'Extensionname'. One row is selected, showing 'Category' under 'Name' and 'catalog' under 'Extensionname'. A large blue arrow points down to the 'PROPERTIES' tab in the navigation bar below the table. The 'PROPERTIES' tab is currently active, showing a table of attributes defined for this type. The columns are 'Qualifier', 'Feature type', 'Readable', 'Editable', 'Optional', and 'Search'. Two attributes are listed: 'products' and 'promotions', both with their feature types and other properties.

Qualifier	Feature type	Readable	Editable	Optional	Search
products	[CategoryProductRel... true	true	true	true	true
promotions	[CategoryPromotion... true	true	true	true	true

This screenshot shows the SAP Administration Cockpit interface, similar to the one above but with a different view. The left sidebar is collapsed, showing a search bar with 'types' and a navigation tree with 'System', 'Types', 'Search and Navigation', 'Solr Facet Search Configuration', 'Indexed Types', 'Catalog', and 'Product Variant Types'. A 'SAVED QUERIES' section indicates 'No queries'. The main area has a search bar with 'category' and a 'SEARCH' button. Below it is a table with columns 'Identifier', 'Name', and 'Extensionname'. One row is selected, showing 'Category' under 'Name' and 'catalog' under 'Extensionname'. A large blue arrow points down to the 'PROPERTIES' tab in the navigation bar below the table. The 'PROPERTIES' tab is currently active, showing a table of attributes inherited from supertypes. The columns are 'Qualifier', 'Feature type', 'Readable', 'Editable', 'Optional', and 'Search'. Five attributes are listed: 'allDocuments', 'assignedCockpititem...', 'comments', 'creationtime', and 'itemtype', each with its feature type and other properties. At the bottom of the table, there is a button labeled '+ Create new Attribute'.

Qualifier	Feature type	Readable	Editable	Optional	Search
allDocuments	[ItemDocrRelational... true	true	true	false	
assignedCockpititem...	[Item2CockpititemTe... true	true	true	true	
comments	[CommentItemRelati... true	true	true	true	
creationtime	java.util.Date [java.ut... true	false	true	true	
itemtype	ComposedType	true	true	true	true

Scenario = Properties Files (or) Property Configuration Files

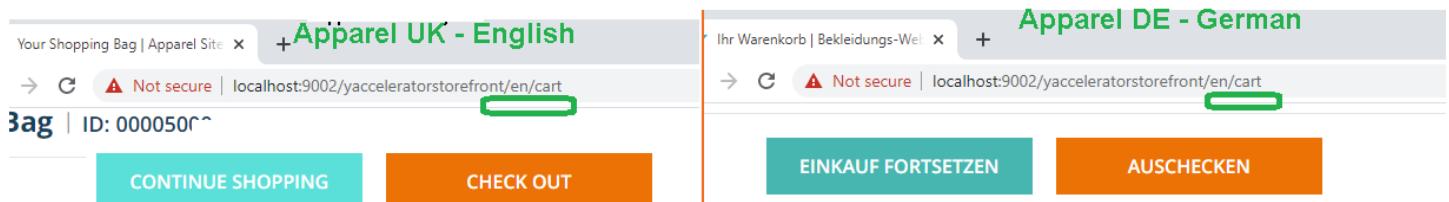
“SAP Comm” – Provides different property files: -

- 1) config\local.properties
- 2) platform\project.properties
- 3) Ext\project.properties
- 4) *_langcode.properties = Used for localization purpose
- 5) ===

Example = [Display Label Localization] = *_langcode.properties

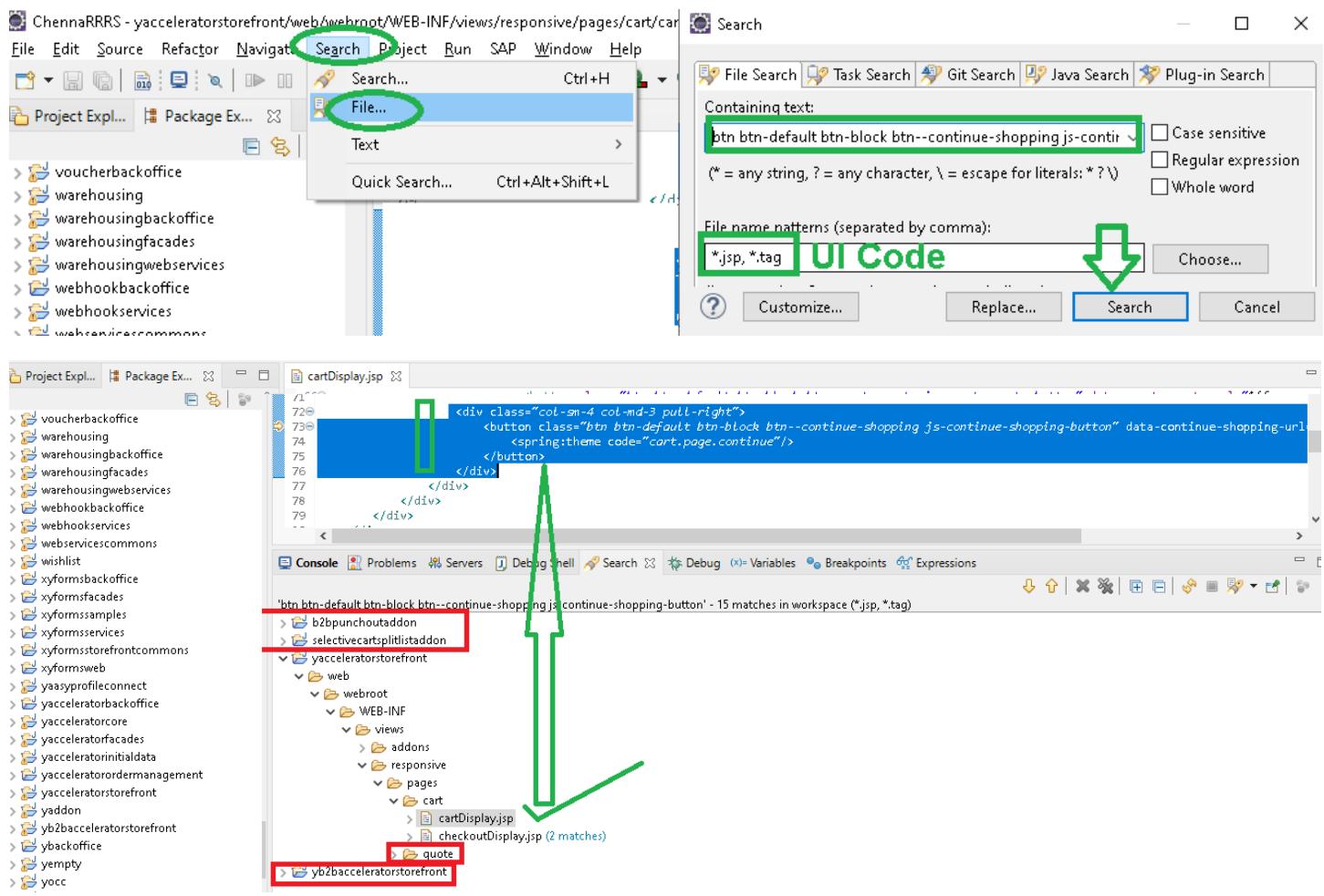
base_en.properties / base_de.properties / ...

site-apparel-uk_en.properties / site-apparel-uk_de.properties / ...



Step 1 = How to find the buttons code

```
<button class="btn btn-default btn-block btn--continue-shopping js-continue-shopping-button" data-continue-shopping-url="/yacceleratorstorefront/en/collections/Streetwear/c/Streetwear?q=:topRated:category:251100">Continue Shopping</button> == $0
```



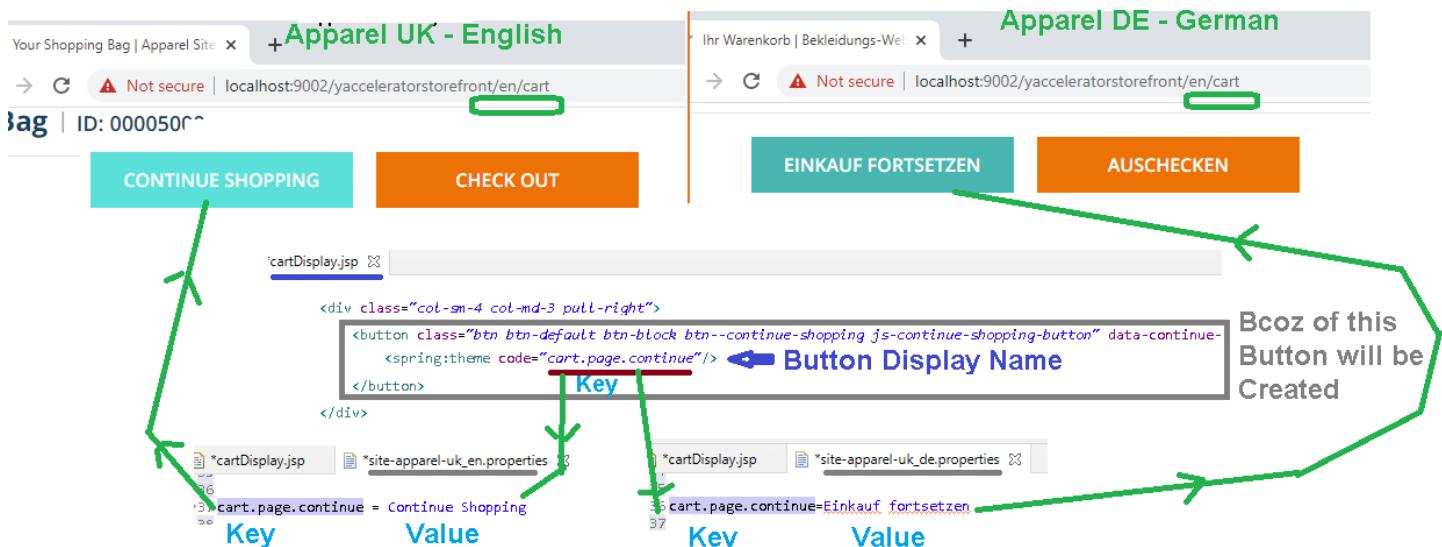
Step 2 = How to cross check above is the correct code?

The screenshot shows the SAP IDEAS IDE interface. The code editor displays 'cartDisplay.jsp' with two versions of the same code. The first version includes a line for a quote button: '...</button>'. This line is highlighted with a red box and labeled 'Delete This Code'. The second version of the code has this line removed. Below the code editor is a browser preview window showing a shopping cart page with a 'Your Shopping Bag | Apparel Site' header and a URL 'localhost:9002/yacceleratorstorefront/en/cart'. The browser status bar indicates 'Not secure'.

Can't find the
button now -->

CHECK OUT

Step 3 = “Continue Shopping” button translation logic



```

  cartDisplay.jsp
  -----
  71
  72<button class="btn btn-default btn-block btn--continue-shopping js-continue-shopping-button" data-continue-
  73    <spring:theme code="cart.page.continue"/>
  74    Continue Shopping - Chennai RRRS
  75
  76
  77
  
```

Scenario = Explain “Internalization (or) Localization with DB Table Col Value”? =

Example -- Product Table

Product ID	Product Name	Product Details	Price
300613490	SEIZURE SATCHEL		34.79

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES

ESSENTIAL DESCRIPTIONS

Article Number: 300466677 (code)

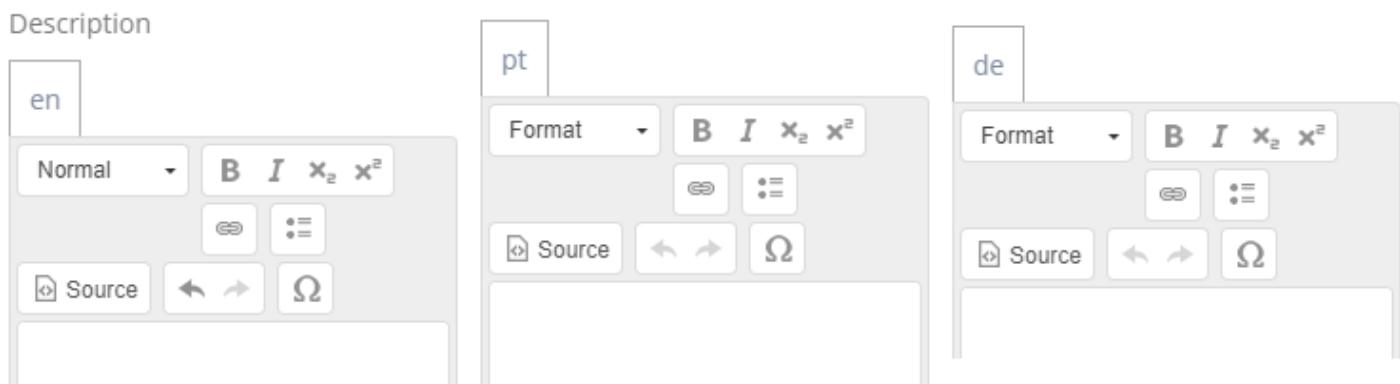
Description: (localized:java.lang.String)

```

<itemtype code="Product"
          generate="true">
    <deployment table="Products" typecode="1" propertytable="ProductProps"/>
    <attributes>
        <attribute autocreate="true" qualifier="description" type="localized:java.lang.String" generate="true"></attribute>
        <attribute autocreate="true" qualifier="code" type="java.lang.String" generate="true"></attribute>
    </attributes>
</itemtype>

```

Results – Bcoz of “description” type = “`localized:java.lang.String`”>



Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Accessories/Beanies/The-Reservoir-Beanie/p/300466677

PRODUCT DETAILS | SPECS | REVIEWS

DB Col Value

Not secure | localhost:9002/yacceleratorstorefront/de/Kategorien/Accessoires/Mützen/The-Reservoir-Beanie/p/300466677

PRODUCTDETAILS | SPECS | BEWERTUNGEN

DB Col Value

Note = Above “Product Details” DB Col value needs to be localized.

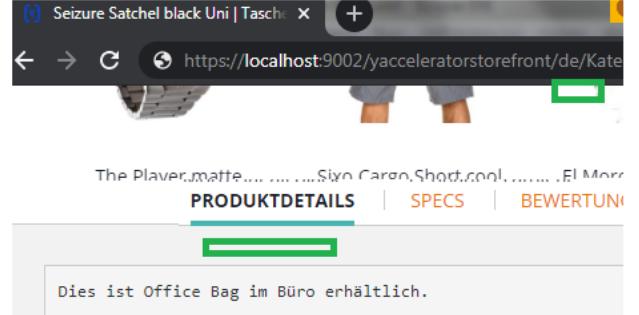
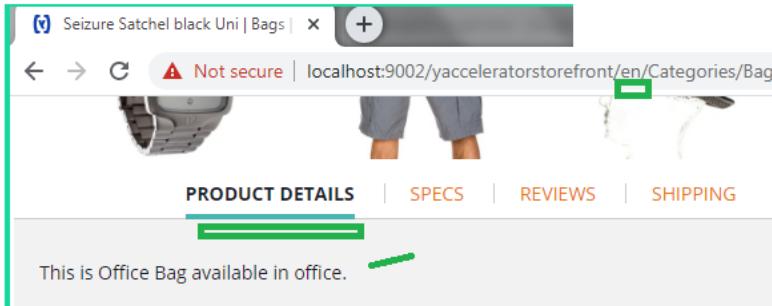
That means -- we should have flexible to configure (or) load language specific Product details.

Q = Where can we see the DB Design / DB Code? = *-items.xml

The screenshot shows the Hybris IDE interface. On the left, the Package Explorer displays various XML files, with `core-items.xml` selected. The main area shows the content of `*core-items.xml`, specifically the configuration for the `Product` item type. A green arrow points to the `localized` attribute in the XML code. Below this, the Catalog module is open, showing the `Seizure Satchel black Uni [300613490]` product details. The `DESCRIPTIONS` tab is selected, showing three language versions: en (Normal), de (Format), and ko (Format). A green arrow points to the en entry. The right side of the interface shows the product's category system, prices, multimedia, variants, and extended attributes.

This screenshot shows the same product details editor as above, but with the localized descriptions filled in. The en description reads "This is Office Bag available in office", the de description reads "Dies ist Office Bag im Büro erhältlich", and the ko description is empty. A green arrow points to the en description text.

Results =



```

core-items.xml
3400
3401<itemtype code="Product"
3402    extends="GenericItem"
3403    jaloClass="de.hybris.platform.jalo.product.Product"
3404    autoCreate="true"
3405    generate="true">
3406    <deployment table="Products" typeCode="1" propertyTable="ProductProps"/>
3407    <attributes>
3408        <attribute autoCreate="true" qualifier="code" type="java.lang.String" generate="true">
3409            <persistence type="property"/>
3410            <modifiers read="true" write="true" search="true" initial="true" optional="false"/>
3411            <custom-properties>
3412                <property name="hmcIndexField">
3413                    <value>thefield</value>
3414                </property>
3415            </custom-properties>
3416        </attribute>
3417        <attribute autoCreate="true" qualifier="name" type="localized:java.lang.String">
3418            <modifiers read="true" write="true" search="true" initial="true" optional="false"/>
3419            <persistence type="property"/>
3420            <custom-properties>
3421                <property name="hmcIndexField">
3422                    <value>thefield</value>

```

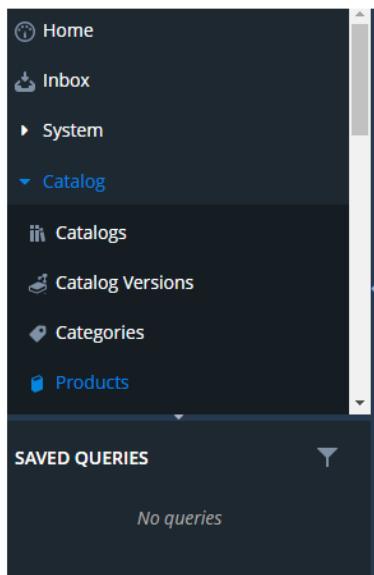
Seizure Satchel black Uni [300613490] - Apparel Product Catalog

PROPERTIES

ESSENTIAL

Identifier	Value								
Article Number	300613490								
Code	<table border="1"> <tr> <td>en</td> <td>Seizure Satchel black</td> </tr> <tr> <td>es_CO</td> <td>—</td> </tr> <tr> <td>in</td> <td>—</td> </tr> <tr> <td>pt</td> <td>—</td> </tr> </table>	en	Seizure Satchel black	es_CO	—	in	—	pt	—
en	Seizure Satchel black								
es_CO	—								
in	—								
pt	—								

Q = Explain “Localization values with 3rd party tools integration”?



6 Inch Nylon Cable Ties 100-Pack [1128763] - Powertools Product Catalog : Staged

In Real time -- We will have 1000's of products.

So -- It's difficult for business to provide the translations for all the products. Hence ... We use 3rd party integrations for Translations.

DESCRIPTIONS

In real time, companies uses, 3rd party tools for getting locale specific content.

Example: - Global Link Connector

Description

en	Normal	B I	Source
pt	Normal	B I	Source
fr	Normal	B I	Source

Keep your cabling organized in easy-to-manage bundles these StarTech.com 6 inch nylon cable ties. We carry these in packs of 100 in 6 inch lengths.

Note = Business can provide translations for few products (or) for few languages.

But in real-time -- We might have millions of products & 20 languages / 30 languages /.... then how can businesses provide these translations?

==== In this scenario – We can go with 3rd party integration for language translations.

1 Example = GlobalLink

<https://www.transperfect.com/globallink/partners/sap.html>

Step 1 = **GlobalLink** Connect provides Exts for us.

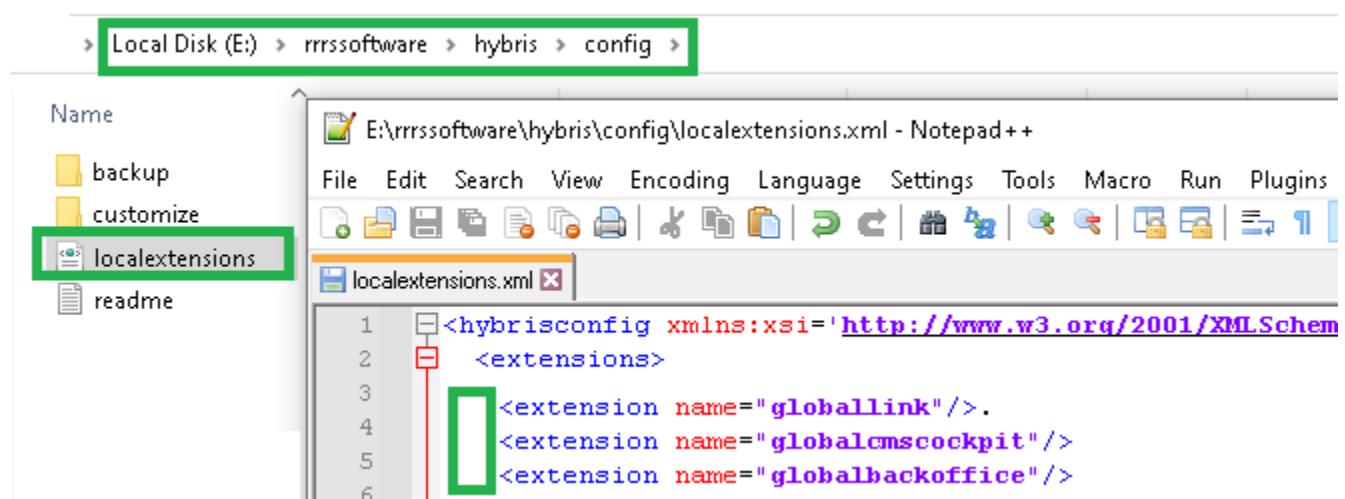
We need to take those Exts & **activate / enable** in SAP commerce.

That means – We need to take their Exts & put in custom folder

C:\rrrssoftware\hybris\bin\custom

Active / Enable those Exts by adding them in below file: -

C:\rrrssoftware \hybris\config**localextensions.xml**



Step 2 = Build [ant clean all]

- Start the Server [hybrisserver.bat]
- Finally perform “hAC – Update”.

Step 3 = Configure GlobalLink, Submit & Receive Translations.

Backoffice ===

GlobalLink

- Configuration
- Logging
- Submit Queued Jobs
- Fetch Translations
- Jobs

Create New GlobalLink Configuration

PROJECT DIRECTOR SERVER

In "SAP Comm" Configure GlobalLink Server URL, Username & password.

Project Director URL:

Username:

Password:

SEARCH

Select the product & click on this ICON ...
It will ask you: -
1) What is Source Language = English
2) What is Target Language = French, German, Japanese...
===== Submit
GlobalLink takes the English data [description / summary] & provides us back with "FR, DE, JA" language values [descriptions / summary].

Article Number	Identifier	Status	Catalog version
300441142	Cap	● ✓ ○	Apparel Product Catalog
29531	Snowboard Ski	● ✓ ○	Apparel Product Catalog

Step 4 = In Backoffice we can additional nodes & sub-nodes related to “GlobalLink Connect”. Now – Configure GlobalLink Connect information.



Global Link – Provides translations for “Product & Content” **online** [send request & Receive response].

For *.properties file translations – It will be **offline** [Send over email & get back results].

Q = How to find what tools / integrations available for “SAP Comm”?

URL = <https://store.sap.com/dcp/en/>

The screenshot shows the SAP store navigation menu. On the left, there's a sidebar with categories: ERP and Finance, CRM and Customer Experience, Network and Spend Management, Supply Chain Management, and HR and People Engagement. The 'CRM and Customer Experience' category is highlighted with a green box and a green arrow pointing to it from the top-left. On the right, a detailed view of the 'CRM and Customer Experience' category is shown, with sub-options like All in CRM and Customer Experience, SAP Customer Experience Solutions, Customer Data, Marketing, Commerce, and Sales. The 'Commerce' option is also highlighted with a green box and a green arrow pointing to it from the bottom-right. A large green arrow points from the 'Commerce' option to a 'Browse All' button.

The screenshot shows the SAP store search results page for the 'Commerce' category. A red box highlights the 'Commerce' filter in the top navigation bar, and a blue arrow points down to the search results. The results are displayed in a grid format, showing various tools and packages. Each item includes a thumbnail, name, description, and certification status (e.g., SAP Certified). A yellow callout bubble with a question mark is located in the bottom right corner of the page.

Tool / Package	Description	Certification
GlobalLink Connect for SAP Commerce Cloud	Seamlessly localize your content stored in SAP Commerce Cloud.	SAP Certified
Hexa 3D - 2D to 3D/AR Content Conversion API	Convert product images into 3D / AR content at twice the speed and half the cost.	Free Trial
In-store Clienteling, Omnichannel & Data Platform	Customer experience digital tool incl omnichannel, clienteling, in-store data	SAP Certified Free Trial
Influencer Marketing	Activate influencers & store associates in your online store	
Integration Package for SAP S/4HANA to Upscale Commerce	Pre-built integration for SAP S/4HANA and Upscale Commerce across key processes	
Intelligent Entertainment Suite (IES)	Omni-channel, cloud-based entertainment, retail, and hospitality solution	

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Q = What are the different resources available for “SCC”??

1) CX Works Portal Website = <https://www.sap.com/cxworks/>

The screenshot shows the SAP CX Works portal. At the top, there's a navigation bar with a SAP logo, a search bar containing "Search for articles...", and a plus sign icon. Below the header, the main title "CX Works" is displayed in large, bold letters. A subtitle explains: "A single portal for curated, field-tested and SAP-verified expertise for your SAP Customer Experience solutions. Whether it's a new implementation, adding new features, or getting additional value from an existing deployment, get it here, at CX Works." A horizontal menu bar below the title includes "EXPERT RECOMMENDATIONS", "PROJECT FRAMEWORKS", and "STRATEGIC GUIDANCE".

2) SAP Experts Forum = <https://community.sap.com/>

3) SAP CX WebSite = <https://microlearning.opensap.com>

4) SAP Support Portal = <https://support.sap.com/en/index.html>

5) SAP Help Portal = <https://help.sap.com/viewer/index>

6) Trainings = <https://training.sap.com/>

7) SAP Commerce Cloud Learning Journey -- URL =

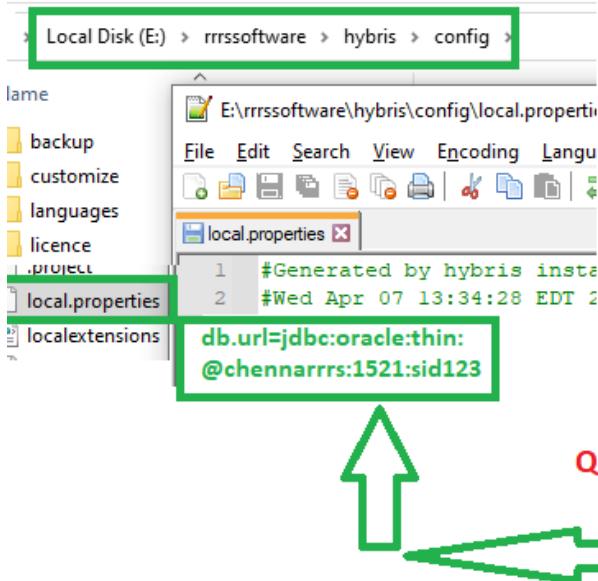
https://help.sap.com/doc/221f8f84afef43d29ad37ef2af0c4adf/HP_2.0/en-US/0d7dd0dc8f464586a187b9b6c27c6b23.html

The screenshot displays two browser windows. The left window is titled "Learning Journey - Landing Page" and shows three icons: "SAP S/4HANA Cloud", "SAP S/4HANA", and "SAP Customer Experience". Below these is a section titled "Let's get started" with the sub-instruction "Find your Learning Journey and get started now!". A green box highlights the "Commerce Cloud" button in a navigation bar at the bottom. The right window is titled "Learning Journey Overview" and shows a search bar with "Commerce Cloud", a note about active filters ("Remove all"), and a message "Showing 1 to 1 of 1 Learning Journeys". It lists a single entry for "SAP Commerce Cloud" with a sub-section titled "Explore for: Consultant, Developer, Administrator, ...".

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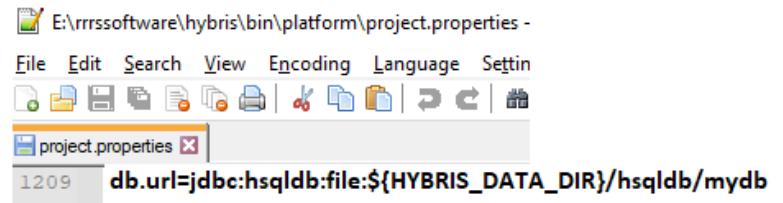
Scenario = Properties Files (or) Configuration Properties

config\local.properties



platform\project.properties

"SAP Comm" giving lots of properties for us.
Example =



Req = Let's say ... You are working for Croma company & they asking you to change this value **Oracle DB?**



Changing the value here works... There is no problem.
But this is not the best practice.

Why = When we do the upgrade changes will be lost.

Q = What is the best practice to do this kind of changes?

Conclusion = Alternate for "platform\project.properties" is "config\local.properties"

config\local.properties

1st

Here -- You maintained
==== HANA DB Settings

platform\project.properties

3rd

SAP Comm - By default provides
HSQL DB.
==== HSQL DB Settings

Ext\project.properties

2nd

Here - You maintained
==== Oracle DB Settings

Q1 = Is it possible to have multiple DB settings like above?

Yes -- We can have.

Q2 = If yes, in this case, which DB is consider by "SAP Comm"?

==== HANA DB

Flow =

1st "SAP Comm" checks is there any DB setting in config\local.properties. If yes, it will consider this & ignore remaining.

If no DB setting in "config\local.properties" then

2nd "SAP Comm" checks is there any DB setting in "ext\project.properties". If yes, then it will consider this & ignore remaining.

If no DB setting in "ext\project.properties" then it will look for DB connection in "platform\project.properties".

Note = Assume that no DB connection in "config\local.properties", "ext\project.properties" & "platform\project.properties" then "SAP Comm" server / hybris server start up fails.

config\local.properties

platform\project.properties

Ext\project.properties

Generally -- We don't do changes here directly.

Q = When can we put a properties in "config\local.properties" and "Ext\project.properties"?

If the property values changes from Env to Env then put those properties in "config\local.properties".

Env = Dev ... QA ... UAT ... Prod ...

Example = DB Connection Settings

UAT SAP Comm =====> Oracle UAT System

db.url=jdbc:oracle:thin:uatoracle@<host>:1521:<sid>

Prod SAP Comm =====> Oracle Prod System

db.url=jdbc:oracle:thin:prodoracle@<host>:1521:<sid>

If the property value does not change from Env to Env then put those properties in "Ext\project.properties".

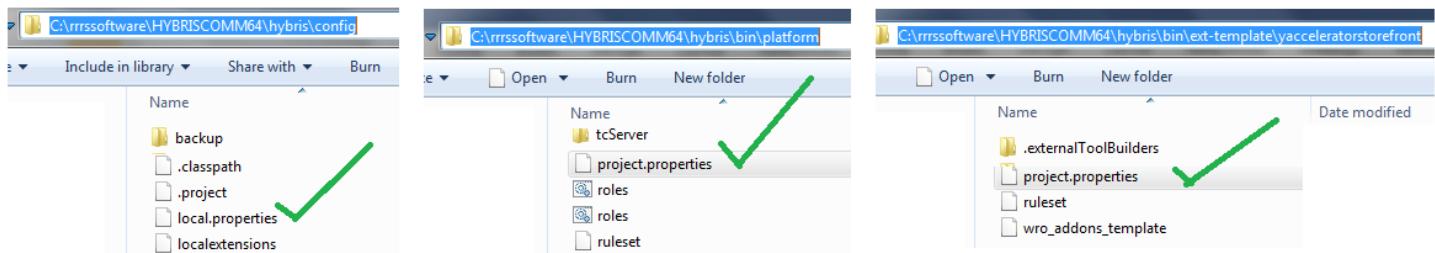
Example =

1) key1 = Invalid Credit Card Number Message

2) tcode = cat2

3) quote.pagination.numberofcomments=4

=====



Q: When do we put properties in "config\local.properties, platform\project.properties exts\project.properties"?

platform\project.properties -- This is provided by hybris. Generally we don't modify anything inside.

It's kind of reference for us & used by hybris.

Requirement = If you think that, your properties changes from Env to Env (Dev Env... QA Env... UAT Env), then put those in local.properties. Example: - DB Connection

Dev System

```
db.url=jdbc:sap://developmenthost:30015?reconnect=true  
db.driver=com.sap.db.jdbc.Driver  
db.username=abc  
db.password=xyz
```

QA System

```
db.url=jdbc:sap://Qahost:30015?reconnect=true  
db.driver=com.sap.db.jdbc.Driver  
db.username=abc  
db.password=xyz
```

Requirement = If you think that, your properties will not change from Env to Env, then put those in "Ext\project.properties"

Example: - T-Code, Min Order Value, Min No of Row

Requirement = You are developing in 1 Ext & It uses 6 properties. This Ext you developed for Others.

In this case, you need to put those 6 properties in Ext\project.properties

<HYBRIS_CONFIG_DIR>/local.properties

Name	1st
local.properties	

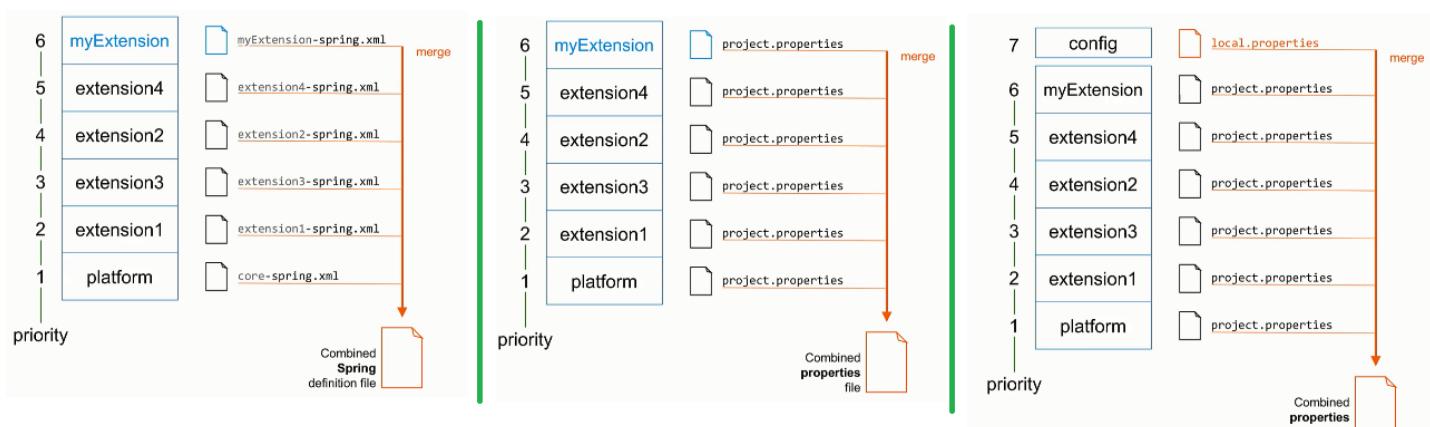
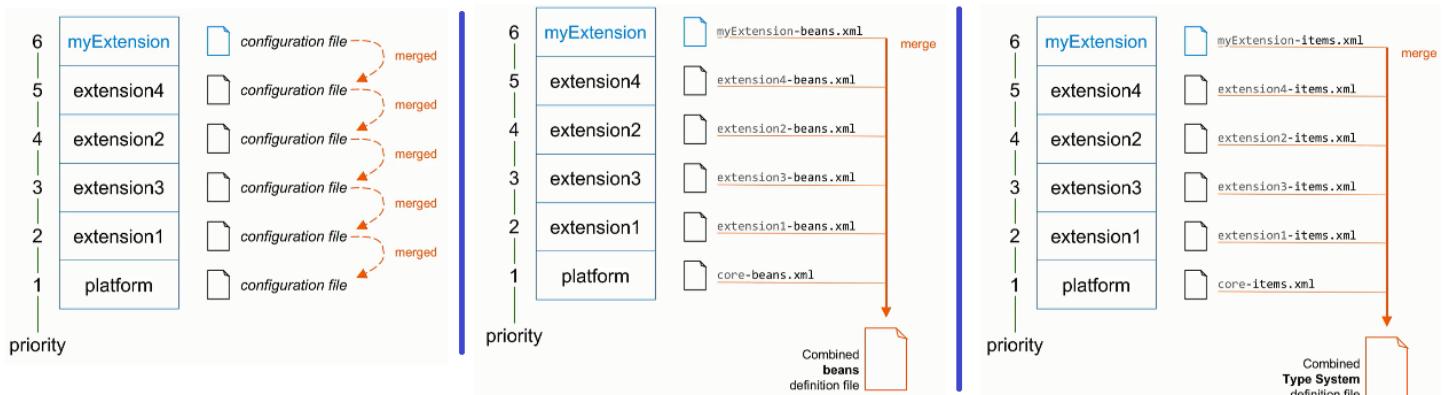
<HYBRIS_BIN_DIR>/<EXTENSION_DIR>/project.properties

Name	2nd
project.properties	

<HYBRIS_BIN_DIR>/platform/project.properties

Name	3rd
project.properties	

local.properties	Extension-specific project.properties	Commerce Platform project.properties	Default value passed in application code	Effective value
ABC	DEF	GHI	JKL	ABC
(none)	DEF	GHI	JKL	DEF
(none)	(none)	GHI	JKL	GHI
(none)	(none)	(none)	JKL	JKL
ABC	(none)	(none)	JKL	ABC
(none)	DEF	(none)	null	DEF
(none)	(none)	(none)	null	(null)



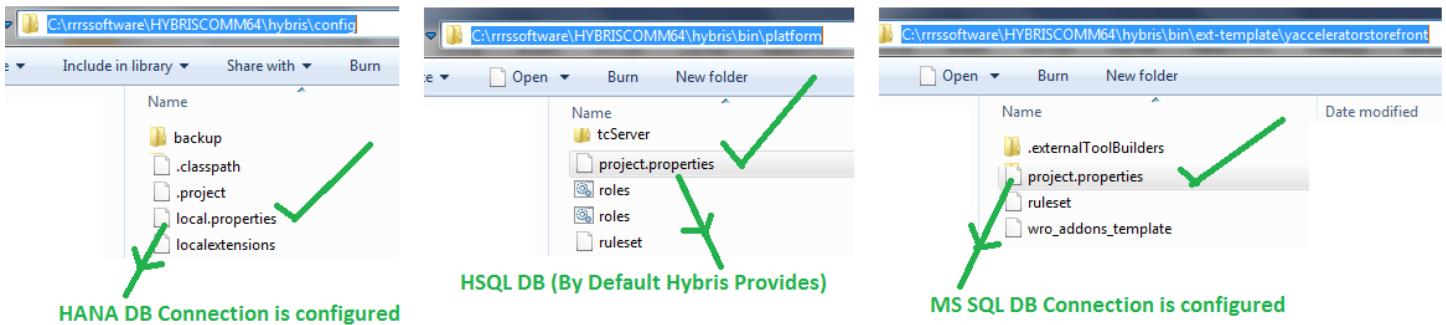
Note = In “SAP Comm” ... We have properties files in different places.

1) \config\local.properties (**1st Priority** Execution)

2) \Extension\project.properties (**2nd Priority** Execution)

3) \platform\project.properties (**3rd Priority** Execution)

Each Exts will have its project.properties



Q1 = Can i configure HANA DB in local.properties, HSQL DB in platform\project.properties & MS SQL DB Ext\project.properties? = Yes

Q2 = Can we configure > 1 DB in different *.properties files? = Yes

Q3 = In above case -- Which DB is active (Bcoz we configured 3 DB's)? = HANA DB.

Q4 = What is the Execution Hierarchy?

Hybris 1st Check = "Config\local.properties" --- If DB connection found then it will take & continue. Else 2nd Check.

Hybris 2nd Check = "Exts\project.properties" --- If DB connection found then it will take & continue. Else 3rd Check.

Hybris 3rd Check = "platform\project.properties" --- If DB connection found then it will take & continue. Else -- Error.

The screenshot shows the hybris administration console interface. The top navigation bar includes links for Platform, Monitoring, Maintenance, Console, Configuration, System, Logging, Extensions, Initialization, Update, SQL Scripts, License, Support, PK Analyzer, and Classpath Analyzer. The Configuration tab is selected.

The main content area displays a list of configuration entries. A red annotation box highlights the first few entries with the text: "All these are from config\local.properties (or) ext\project.properties (or) platform\project.properties". The list includes entries like "#hac.weboot" and "#mykey". A black box at the bottom left indicates "Showing 1 to 10 of 3,739 entries".

Scenario =

Req1 = Display search results 5 products per page?

The screenshot shows a B2C storefront interface. At the top, there's a header with 'B2C Accelerator', 'WELCOME CHENNAI', 'MY ACCOUNT', and 'SIGN OUT'. Below the header is a search bar containing 'caps'. To the right of the search bar are icons for location, cart, and account. A teal navigation bar below the header includes links for 'BRANDS', 'STREETWEAR', 'SNOW', 'ACCESSORIES', and 'YOUTH'. Below this is a breadcrumb trail 'HOME / CAPS'. On the left, there's a sidebar with 'Shop by Stores' and a 'FIND STORES' button. The main content area displays a message 'You searched for "caps"' and '19 Products found'. A red arrow points from the text '19 Products found' to a callout on the right. The callout contains the text 'All Products are coming in same page.' and 'Req = Display search results 5 Products per Page'. Below the message are five images of different caps.

Req2 = Quick order form layout for 5 products?

The screenshot shows a B2C storefront interface. At the top, there's a header with 'B2C Accelerator', 'WELCOME CHENNAI', 'MY ACCOUNT', and 'SIGN OUT'. Below the header is a search bar containing 'I'm looking for'. To the right of the search bar are icons for location, cart, and account. A teal navigation bar below the header includes links for 'BRANDS', 'STREETWEAR', 'SNOW', 'ACCESSORIES', and 'YOUTH'. Below this is a breadcrumb trail 'HOME / QUICK ORDER'. On the right side of the header, there are buttons for 'QUICK ORDER' (which is highlighted with a green box) and 'IMPORT SAVED CART'. The main content area is titled 'Quick Order' and features a table with columns: PRODUCT, PRICE, QTY, and TOTAL. There are three rows of input fields for SKU, Price, Quantity, and Total. A green vertical rectangle highlights the first column of the table. A red arrow points from this green box to a callout on the right. The callout contains the text 'Quick Order Form - Layout is given by default for 3 Products.' and 'Req = Your company requirement is, they want layout for 5 products?'. Each row has a red 'X' icon at the end.

Req3 = Order Number

Croma – Order No = 15 Digits

Reliance Digital – Order No = 12 Digits

Lenovo – Order No = 18 Digits

For Req1, Req2, Req3, and ===

Can SAP we ask the client to write the code? (or) "SAP Comm" can give some configuration, so that client config value?

Ans === Configuration [Key – Value Paris].

Req1 – Solution =

The screenshot shows the hybris administration console interface. The top navigation bar includes links for Platform, Monitoring, Maintenance, and Console. The Configuration tab is highlighted with a green box. Below the tabs, there are buttons for apply all and reset all, and a search field for pagesize. The main area displays a table with columns for Key and Value. A new key 'New key...' has been added. Existing keys include 'storefront.flexible.advance.search.pageSize' with a value of 25, 'storefront.search.pageSize.Desktop' with a value of 5 (circled in green), and 'storefront.storelocator.pageSize.Desktop' with a value of 10.

Results – after above changes

The screenshot shows the SAP CX Backoffice storefront. The top navigation bar includes links for Search caps | Apparel Site UK and SAP CX Backoffice. The main search bar contains the query 'caps'. The results page is titled 'Results' and shows a message '5 Products / page'. A green box highlights the text '19 Products found' in the sidebar. The results section displays five hats from the apparel site.

Req2 – Solution =

SAP CX Backoffice | localhost:9002/platform/config

You're Administrator [logout](#)

(x) hybris administration console

Platform Configuration Maintenance Console

Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Classpath Analyzer

apply all reset all Show unsaved only: OFF

Show 10 entries Search: quick

Key	Value
New key...	New value... add
media.customextension.video.quicktime	mov remove checkmark
yacceleratorstorefront.quick.order.rows.max	25 remove checkmark
yacceleratorstorefront.quick.order.rows.min	5 remove checkmark
yb2bacceleratorstorefront.quick.order.rows.max	25 remove checkmark
yb2bacceleratorstorefront.quick.order.rows.min	3 remove checkmark

Quick Order Page | Apparel Site SAP CX Backoffice | localhost:9002/yacceleratorstorefront/en/quickOrder

WELCOME CHENNAI MY ACCOUNT SIGN OUT

B2C Accelerator

I'm looking for [Search](#)

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH [QUICK ORDER](#) [IMPORT SAVED CART](#)

(7 ITEMS) £349.64 [View Cart](#)

HOME / QUICK ORDER

Quick Order

You can add up to 25 valid SKUs below and add to cart. Stock is reserved once products are added to cart.

[RESET FORM](#) [ADD TO BAG](#)

PRODUCT	PRICE	QTY	TOTAL
Enter SKU X			
Enter SKU X			
Enter SKU X			
Enter SKU X			

Results

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Req3 – Solution =

The screenshot shows the SAP CX Backoffice Configuration Properties page. The top navigation bar includes links for Platform, Monitoring, Maintenance, and Console. Below this, a sub-navigation bar shows Tenants, Configuration (which is highlighted with a green oval), System, Logging, Extensions, Initialization, Update, SQL Scripts, License, Support, PK Analyzer, and Classpath Analyzer. A toolbar at the top right contains 'apply all' and 'reset all' buttons, and a switch for 'Show unsaved only' set to OFF. A search bar is also present. The main content area displays a table of configuration properties under the 'order' key. The table has two columns: 'Key' and 'Value'. The keys listed are abstractorder.taxFreeEntrySupport, audit.order.enabled, audit.saporder.enabled, keygen.order.code.digits, keygen.order.code.name, keygen.order.code.start, keygen.order.code.template, and keygen.order.code.type. The values are false, true, true, 8, order_code, 00000000, \$, and numeric respectively. Each row has a delete icon to its right.

The screenshot shows the hybris administration console Configuration Properties page. The top navigation bar includes links for Platform, Monitoring, Maintenance, and Console. A message indicates 'You're Administrator' with a 'logout' button. The main content area displays a table of configuration properties under the 'cms' key. The table has two columns: 'Key' and 'Value'. The keys listed are acceleratorcms.application-context, acceleratorcms.global-context, cms.cache.enabled, and cms.cache.use.default.fallback. The values are acceleratorcms-spring.xml, acceleratorcms-cache-spring.xml, false, and false respectively. Each row has a delete icon to its right. A green rectangle highlights the 'cms' search term in the search bar.

Scenario = Change configuration values permanently

If we change any value from "hAC - Config" then this value will be available as long as server is running. If we start the server then it takes original value = 3

Configuration Properties

apply all reset all

Show 10 entries Search: quick

Key	Value
New key...	New value... add
media.customextension.video.quicktime	mov
yacceleratorstorefront.quick.order.rows.max	25
yacceleratorstorefront.quick.order.rows.min	5

Q = How to change above configuration value permanently?

ChennaRRRS - yacceleratorstorefront/project.properties - Eclipse IDE

File Edit Navigate Search Project Run SAP Window Help

Project Explorer Package Explorer

project.properties

```
269
270
271 #####
272 # Add mime support for svg format
273 mediatype.by.fileextension.svg=image/svg+xml
274
275 #####
276 # Defines the minimum and maximum number of rows for quick order
277 yacceleratorstorefront.quick.order.rows.min=5
278 yacceleratorstorefront.quick.order.rows.max=25
279
280 #####
281 # Defines maximum size in bytes of the upload request that takes into account addi
282 # such as CSRF token (please note that the size of the upload request seems to var
283 import.csv.max.upload.size.bytes=11240
284 # Defines maximum size in bytes of the uploaded CSV file
285 import.csv.file.size.bytes=10240
286
287 #####
```

Change this value = 5

We can also create "configurations" dynamically here.

Configuration Properties

apply all reset all

Show 10 entries Search: quick

Key	Value
chenna.rrrs	1000 add

Scenario = Finding / Writing “Configuration Code” – Example

For "Quick Order" -- By default we have layout for 3 Products.

PRODUCT	PRICE	QTY	TOTAL
Enter SKU			X
Enter SKU			X
Enter SKU			X

Step 1 = Create the configuration property

```
269
270
271 #####
272 # Add mime support for svg format
273 mediatype.by.fileextension.svg=image/svg+xml
274
275 #####
276 # Defines the minimum and maximum number of rows for quick order
277 yacceleratorstorefront.quick.order.rows.min=3
278 yacceleratorstorefront.quick.order.rows.max=25
279
```

Step 2 = Read the configuration property value in the code

```
42     private ResourceBreadcrumbBuilder resourceBreadcrumbBuilder;
43
44     @Resource(name = "productVariantFacade")
45     private ProductFacade productFacade;
46
47     @RequestMapping(method = RequestMethod.GET)
48     public String getQuickOrderPage(Final Model model) throws CMSItemNotFoundException // NOSONAR
49     {
50         storeCmsPageInModel(model, getContentPageForLabelOrId("quickOrderPage"));
51
52         model.addAttribute("quickOrderMinRows", Integer.valueOf(Config.getInt("yacceleratorstorefront.quick.order.rows.min", 0)));
53
54
55
56
57
58
59
60
61
62
63
64
65
66
```

If there is no Key value mentioned in *.properties then this value will be considered.

Now -- we have 2 ways to read configuration property value: -

1) Config.getYYY(=====

2) ConfigurationService.getConfiguration(=====

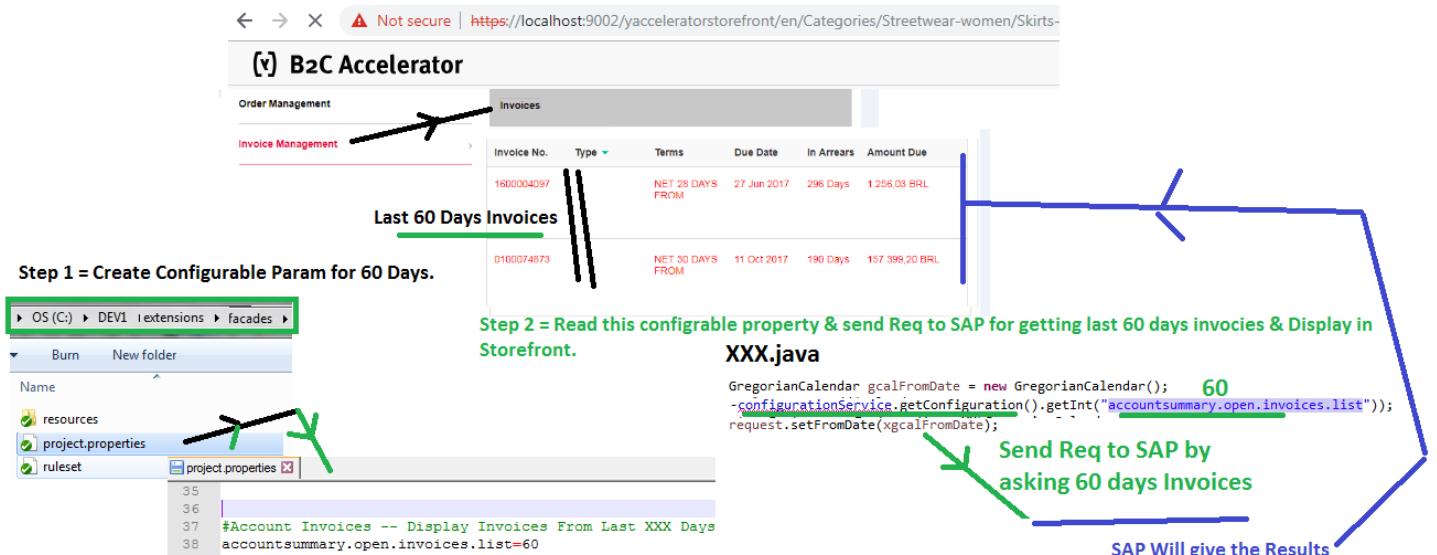
Configuration Service takes less resource when you compare with Config.

That's why best practice is use "**Configuration Service**".

Step 3 = Create the UI layout-based Config Param Value.

```
ChennaRRRS - yacceleratorstorefront/web/webroot/WEB-INF/tags/response/quickorderListRows.tag
File Edit Source Refactor Navigate Project Run SAP Window Help
Project Explorer Package Explorer
acceleratorbackoffice
acceleratorms
acceleratorfacades
acceleratorocc
acceleratorservices
acceleratorstorefrontcommons
accountssummaryaddon
adaptivesearch
adaptivesearchbackoffice
adaptivesearchfacades
adaptivesearchsamplesaddon
adaptivesearchsolsr
adaptivesearchwebservices
addonsupport
adminapi
admincockpit
apiregistrybackoffice
apiregisterservices
anneralstore
21 <li class="item_info"></li>
22 <li class="item_price"><spring:theme code="text.quickOrder.page.price"/></li>
23 <li class="item_quantity"><spring:theme code="text.quickOrder.page.qty"/></li>
24 <li class="item_total-column"><spring:theme code="text.quickOrder.page.total"/></li>
25 <li class="item_remove"></li>
26 </ul>
27
28
29 <c:forEach begin="1" end="${quickOrderMinRows}">
30     <li class="item_list--item js-li-container">
31         <div class="item_sku_input js-sku-container">
32             <input type="text" placeholder="Enter SKU" class="js-sku-input-field form-control"/>
33             <input type="hidden" class="js-hidden-sku-field"/>
34             <div class="js-sku-validation-container help-block quick-order_help-block"></div>
35         </div>
36         <div class="item_remove">
37             <button class="btn js-remove-quick-order-row" tabindex="-1">
38                 <span class="glyphicon glyphicon-remove"></span>
39             </button>
40         </div>
41     </li>
42 </c:forEach>
43
44 </ul>
```

Scenario = Let's say – We created 1 property for client specific. How to use this property in "SAP Comm" application (or) code?



Scenario = Configuration properties are Key – Value Pairs.

Q = What is the **Quick Order (QO)** Functionality? =

Let's I want to add 3 items to Cart: -

1st Way = Do the Search – select the item – Add to cart

2nd Way = Do the Navigation – select the item – Add to cart

Note = If you [customer] remember the Product code then no need to all above steps, you can simply use “**Quick Order**” & speed up the process.

Product == Item == Material

The screenshot shows a web browser window for 'Apparel Site UK'. The URL is https://localhost:9002/yacceleratorstorefront/en/quickOrder. The page has a search bar and navigation links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. A green box highlights the 'QUICK ORDER' button. Below it is an 'IMPORT SAVED CART' button. The main content area is titled 'Quick Order' and contains instructions: 'You can add up to 25 valid SKUs below and add to cart. Stock is reserved once products are added to cart.' It features a table with columns: PRODUCT, PRICE, QTY, and TOTAL. Two items are listed:

PRODUCT	PRICE	QTY	TOTAL
300438590 <input type="text"/>	£68.81	1	£68.81
300460184 <input type="text"/>	£64.76	1	£64.76

Each row includes a green checkmark icon and a red 'X' icon for removal.

Note = Quick Order is the **OOTB** (Provided by “SAP Comm”) functionality.

You can very well say that, I worked Quick order functionality.

Then they (Interviewer) can ask – Quick Order is OOTB, what did you work?.

Note = QO by default giving layout to add 3 items.

Let's say – You company want layout to add **8 items** by default.

Q = Do you hard code items count layout (or) U can make it as configurable parameter? = **Make it as configurable.**

For this – change below configuration property values from **3** to **8**.

Your company want layout to add 8 items by default.

Key	Value
New key...	New value...
media.customextension.video.quicktime	mov
yacceleratorstorefront.quick.order.rows.max	25
yacceleratorstorefront.quick.order.rows.min	3
yb2acceleratorstorefront.quick.order.rows.max	25
yb2acceleratorstorefront.quick.order.rows.min	3

Scenario =

When we click on → Products [From BackOffice], it will fetch the results from **Solr** [Not from DB Product table] = **Basic Search**.

We get below error as we did not finish the Solr index.

The screenshot shows the hybris Backoffice interface. The top bar displays the title "hybris Backoffice" and the URL "localhost:9002/backoffice/". A red box highlights the URL bar. The main header "Commerce" is on the left, and "Administration" is on the right. In the center, there's a search bar with placeholder text "Filter Tree entries" and a search icon. Below it is a tree navigation panel with categories: Catalog, Catalogs, Catalog Versions, Categories, and Products. The "Catalog" category is expanded, and its sub-items "Catalogs" and "Catalog Versions" are visible. The "Products" item is highlighted with a green box. To the right of the tree, a search results table is shown with columns "Article Numb..." and "Identifier". A red box highlights the error message "Could not execute full-text query. Please initialize the index [here](#)". A red arrow points from the "Products" highlight to this message. Another red arrow points from the "Catalog" highlight to the same message. Below the table, the text "How to fix this" is displayed in red, followed by the instruction "Try to fetch the results form Solr". At the bottom right, it says "No entries".

Also – when we go to “**Product Cockpit**” get below error as we did not finish the **Solr index**.

The screenshot shows the hybris Backoffice interface. The top navigation bar has a red warning icon and the URL 'localhost:9002/backoffice/'. A green box highlights the 'Product Cockpit' dropdown menu. The main content area has a blue header 'Commerce'. On the left, there's a sidebar with icons for catalog management, search, and filters. The main panel shows a message: 'Could not execute full-text query. Please initialize the index [here](#)'. Below it, a large green banner says 'Try to fetch the Products from Solr'. The bottom part of the screen shows a table with columns 'Products' and 'Catalog', both currently empty.

Solution 1 = We don't want to use the Solr, but want to see the products.

Then – Use the Product → **Switch Search Mode [Advanced Search]**.

== Advanced Search will get the results from DB (Not form Solr).

hybris Backoffice

Commerce

Administration

Filter Tree entries

System

Catalog

Catalogs

Catalog Versions

Categories

Products

Product Variant Types

Product

Global Operator: And

Include subtypes

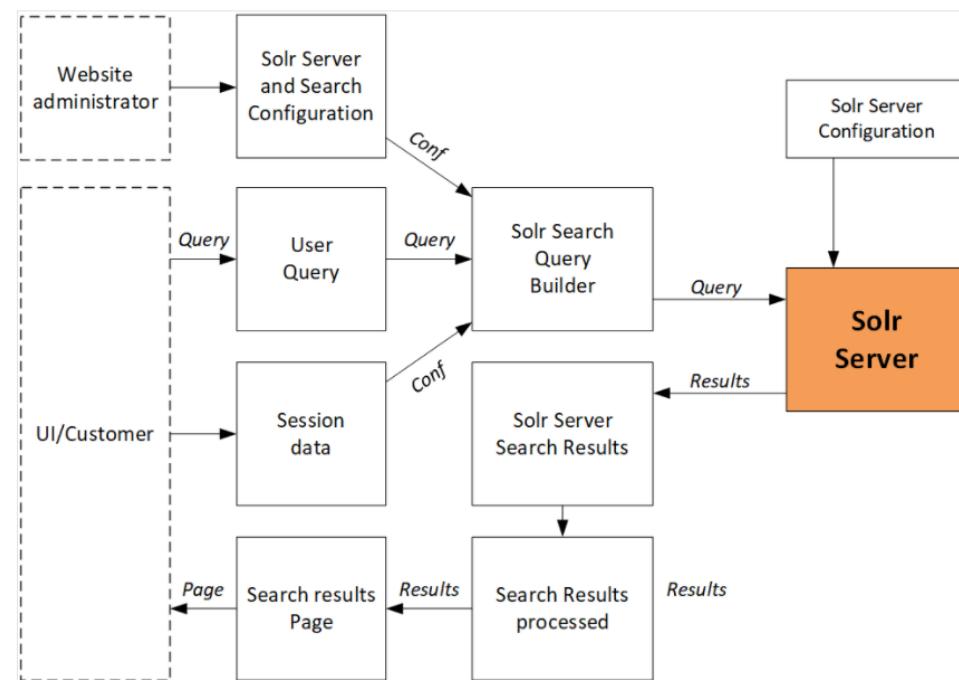
SEARCH

Get the results from DB

Article Num...	Identifier	Status	Catalog ver
637227	Plier Set (3 Pack)	● ▲ ⚡	Powertools
693923	P.C. Service Kit / C.S.A. Soldering Iron	● ✓ ⚡	Powertools
1101600	Flameform 18 VOLT C Tool Combo Kit	▲ ▲ ⚡	Powertools

Solution 2 = Solr

Q = What is Solr?



Q = What is the Solr?

- 1) It's from Apache
- 2) Open-source enterprise-search platform
- 3) Written in Java
- 4) Faceted search
- 5) Real-time indexing
- 6) Rich document handling
- 7) Autosuggest and spellcheck
- 8) ===

Search caps | Apparel Site UK

B2C Accelerator

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CAPS

Shop by Stores

Results coming from Solr

```
SearchPageController.java
2+ * [y] hybris Platform
11 package de.hybris.platform.yacceleratorstorefront.controllers
12
13 import de.hybris.platform.acceleratorcms.model.components.SearchPageController
14
15 @Controller
16 @RequestMapping("/search")
17 public class SearchPageController extends AbstractSearchPageController
18 {
19     private static final String SEARCH_META_DESCRIPTION = "Search results for ";
20     private static final String SEARCH_META_TITLE = "Search results for ";
21
22     @SuppressWarnings("unused")
23     private static final Logger LOG = Logger.getLogger(SearchPageController.class);
24
25     private static final String COMPONENT_UID_PATH_VARIABLE = "componentUID";
26     private static final String FACET_SEPARATOR = ":";
```

Note = SAP Commerce by default comes with **embedded Solr**.

But in real time, for UAT & Production purpose, companies mostly use “**Dedicated Solr**”.

Q = How to fix the below challenge?

hybris Backoffice

Commerce

Administration

Filter Tree entries

Could not execute full-text query. Please initialize the index [here](#).

hybris Backoffice

Commerce

Administration

Filter Tree entries

Catalog

Catalogs

Catalog Versions

Categories

Products

How to fix this

Try to fetch the results from Solr

Article Num... Identifier

No entries

Could not execute full-text query. Please initialize the index [here](#).

Solution 2 = [Using Solr] SAP Comm OOTB provides “Solr Config for Backoffice” Job for this.

→ Backoffice → System → Search and Navigation

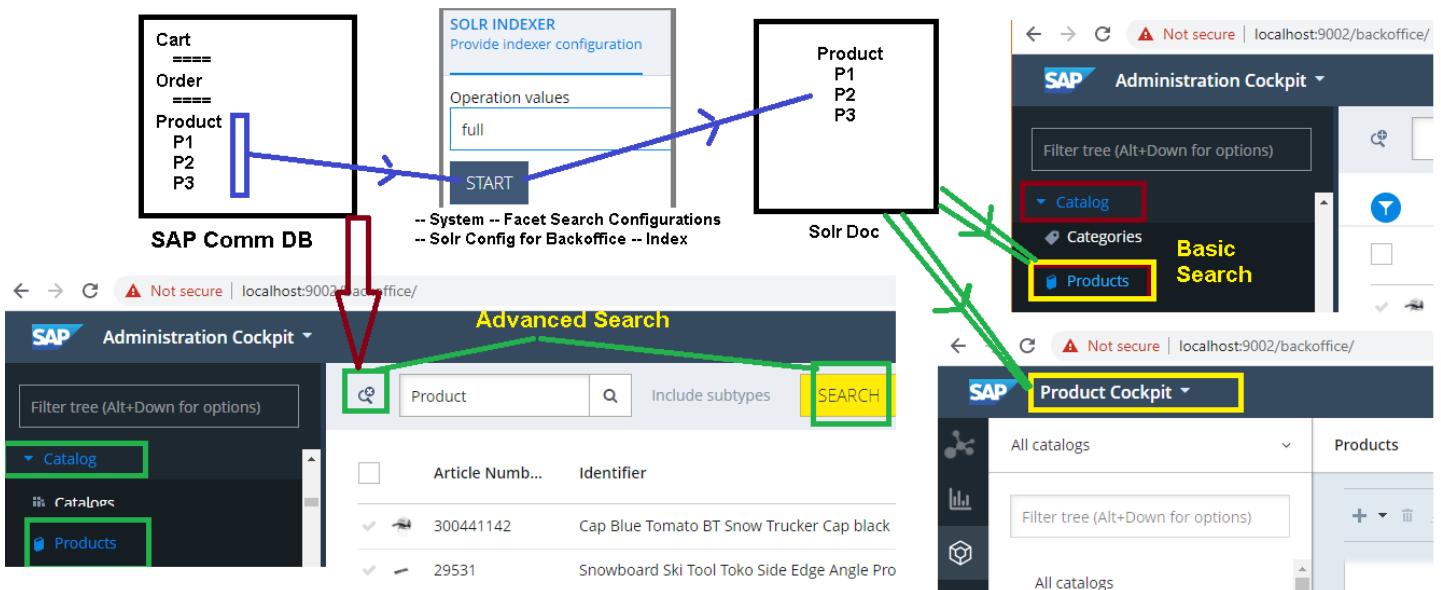
The screenshot shows the SAP Backoffice interface. On the left, the navigation tree is expanded to show 'Search and Navigation' and 'Facet Search Configurations'. In the main area, a table lists a single entry: 'Solr Config for Backoffice' with the description 'Solr Config for Backoffice'. Below the table, it says '0 ITEMS SELECTED'. To the right, there's a panel titled 'Create New SolrIndexerOperationWizard' with a sub-section 'SOLR INDEXER' for 'Provide indexer configuration'. Underneath, there's a section for 'Operation values' with a dropdown set to 'full' and a 'START' button. A green box highlights the 'Index' icon in the table row and the 'START' button.

Results – In Product Cockpit

The screenshot shows the Product Cockpit interface. On the left, a sidebar has icons for catalogs, classification, and search. The 'All catalogs' section is expanded, showing 'Default-Catalog', 'Electronics Classification', and 'Powertools Classification'. The main area is titled 'Products' and shows two product cards: one for 'Pliers' and another for 'Tool Kit'. Green arrows point from the 'Default-Catalog' and 'Tool Kit' card to the respective sections in the sidebar and main area, indicating successful indexing.

Results – In Backoffice [Basic Search]

	Article Num...	Identifier
637227	W	Plier Set (3 Pack)
693923		P.C. Service Kit / C.S.A. Soldering Iron
1101690		FireStorm 18 Volt 6 Tool Combo Kit



Conclusion =

- 1) Backoffice – Products [**Basic Search**] = Get the records from **Solr** document
- 2) Backoffice – Products [**Advanced Search**] = Get the records from **database**
- 3) **Product Cockpit** – Products = Get the records from **Solr Document**.
- 4) System – Types = Products – Execute ... records from **Solr Document**.

Note = In above scenarios, we have run the “Solr Config for Backoffice” manually.

But in real time, we will have Jobs [Cronjobs] to execute this at periodic intervals [Example – Every 6 Hrs once].

Q = Where can we see the Cronjob details [Which running / finished / ...]

The screenshot shows the SAP Administration Cockpit interface. On the left, there is a navigation sidebar with 'Administration Cockpit' selected. Under 'System', 'Types' is highlighted. The main area has a search bar with 'cronjob' and a 'SEARCH' button. A table titled 'CronJob' lists several entries:

Code	Job definition	Results	Current stat...	Last result
000007PS	sync electronicsProductCatalog:Staged->Online	FINISHED	SUCCESS	
000006Y3	sync electronicsProductCatalog:Staged->Online	FINISHED	SUCCESS	
000006Y2	sync electronicsProductCatalog:Staged->Online	FINISHED	SUCCESS	
000006Y1	sync electronicsProductCatalog:Staged->Online	FINISHED	SUCCESS	
000006Y0	Product Approval	PAUSED	N/A	
0000066D	solrIndexerJob	FINISHED	SUCCESS	

The screenshot shows the hybris administration console monitoring section. At the top, it says 'You're Administrator' and 'logout'. To the right, a yellow note says 'Sol2 = From hAC [Only Running Cron Jobs]'. Below this, the 'Monitoring' tab is selected. Under 'Cron Jobs', there is a table:

Code	Job code	Progress
update-apparel-ukIndex-cronJob	solrIndexerJob	elapsed: 2s, average: 9s, remaining: 7s

Scenario = Website pages [Solr ... Database]

1) Search Results Page [SRP] = Get the results from Solr.

The screenshot shows a web browser with the URL localhost:9002/yacceleratorstorefront/en/search/?text=caps. The page title is "B2C Accelerator". A green arrow points from the search bar to the search icon. Below the search bar is a navigation menu with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "HOME / CAPS". On the left, there is a "Shop by Stores" section with a search bar and a "Shop by Stores" button. The main content area displays a message "19 Products found" above a grid of four baseball caps. A green arrow points from the text "These are coming from Solr." to the product grid.

2) Category Page [PLP] = Get the results from Solr.

The screenshot shows a web browser with the URL localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100. The page title is "B2C Accelerator". A green arrow points from the search bar to the search icon. Below the search bar is a navigation menu with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS". On the left, there is a "Shop by Stores" section with a search bar and a "Shop by Stores" button. The main content area displays a message "7 Products found" above a grid of four men's snow jackets. A green arrow points from the text "These are coming from Solr." to the product grid.

3) Product Page [PDP] = Get the results from Database.

The screenshot shows a web browser with the URL localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Limited-Jacket/p/300678848. The page title is "B2C Accelerator". A green arrow points from the search bar to the search icon. Below the search bar is a navigation menu with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS / LIMITED JACKET". The main content area displays a product card for a "Limited Jacket deepest black M | ID 300678848". The card includes a "Product review summary" section with a 5-star rating and a "Write a Review" button. A red arrow points from the text "This results is coming from database." to the price "£485.96". The price is displayed in a large, bold font. Below the price, a small note says "The perfect set up to reach your next freeriding level. Further Improvements in performance".

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Step 1 = Modify Product name = 300678848

Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Limited-Jacket/p/300678848

B2C Accelerator

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS / LIMITED JACKET

Product Name -- Modify this.

Limited Jacket deepest black M | ID 300678848

Product review summary

★★★★★ | Write a Review

 £485.96

The perfect set up to reach your next freeriding level. Further Improvements |

Filter tree (Alt+Down for options)

Catalog
Catalogs
Catalog Versions
Categories
Products
Product Variant Types
Units
Keywords

SAVED QUERIES
No queries

300678848

Article Number Identifier Status Catalog version

300678848 Chenna RRRS - Limited Jacket deepest black M Apparel Product Catalog : Online

0 ITEMS SELECTED

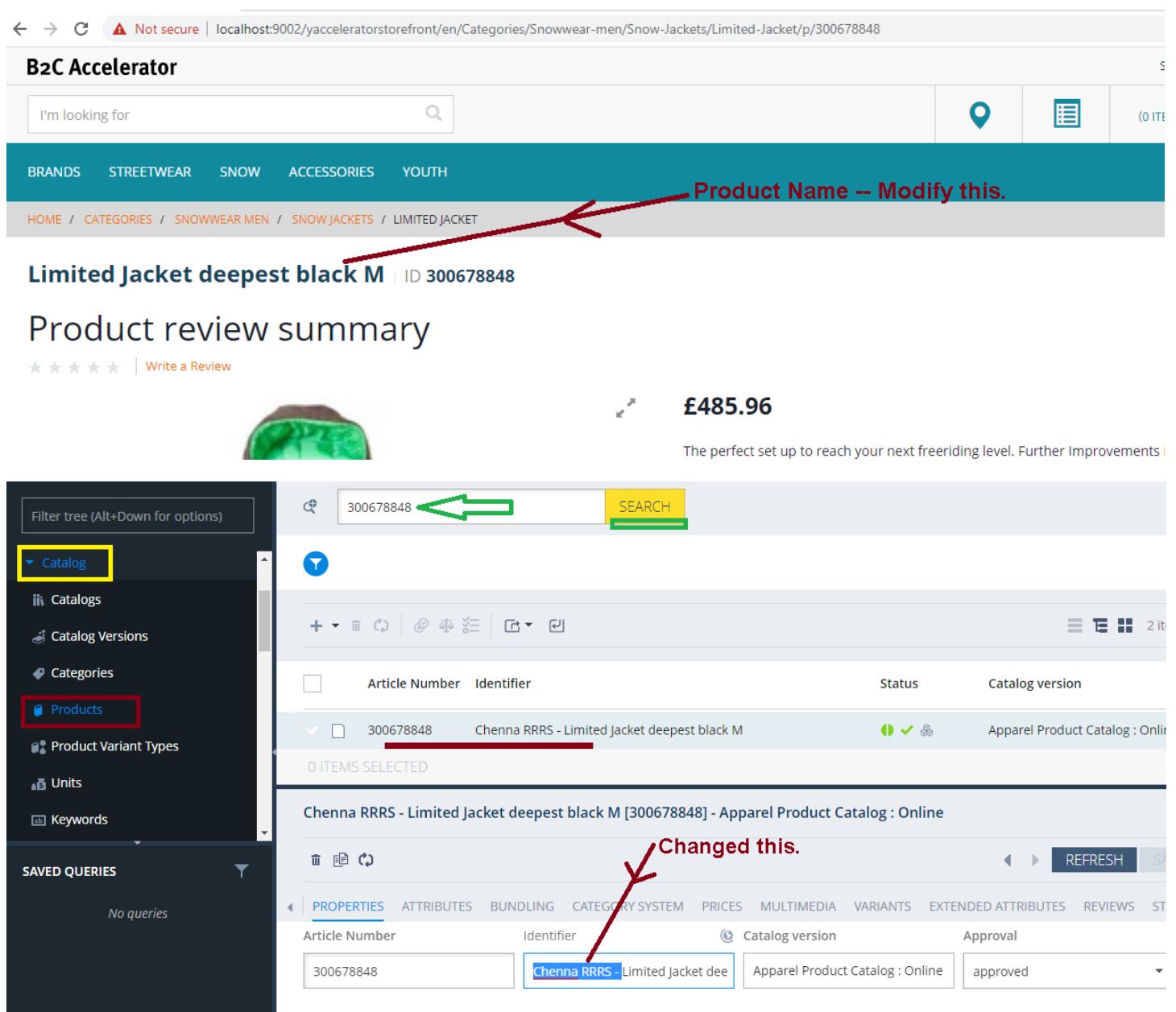
Chenna RRRS - Limited Jacket deepest black M [300678848] - Apparel Product Catalog : Online

Properties Attributes Bundling Category System Prices Multimedia Variants Extended Attributes Reviews ST

Article Number Identifier Catalog version Approval

300678848 Chenna RRRS - Limited Jacket dee Apparel Product Catalog : Online approved

Changed this.



Results – In PDP

Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Limited-Jacket/p/300678848

B2C Accelerator

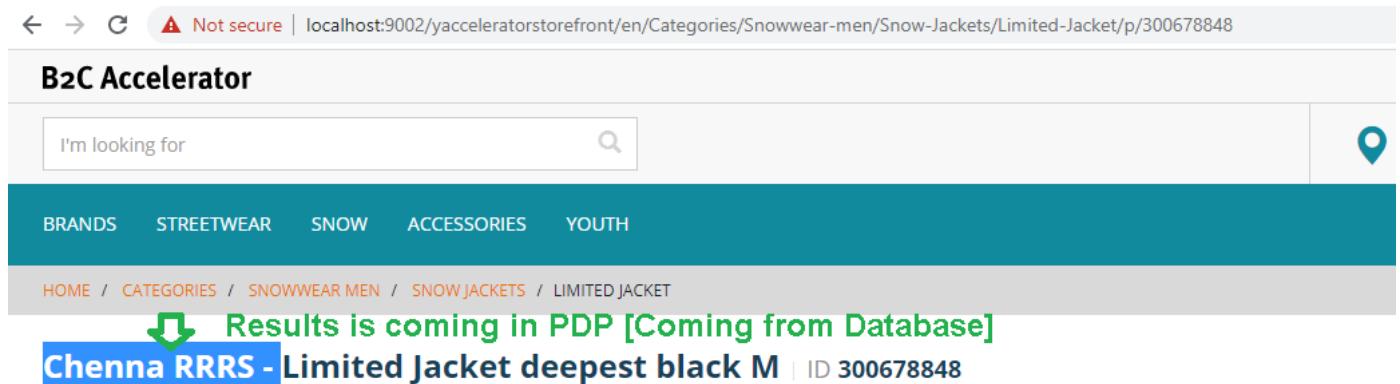
I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS / LIMITED JACKET

Results is coming in PDP [Coming from Database]

Chenna RRRS - Limited Jacket deepest black M | ID 300678848



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Results – In Category Page / Search Page

The screenshot shows a search result for the product "Limited Jacket deepest black M". A red arrow points to the text "Changes are not there." above the product details. The product image is a dark jacket with a green hood. The price is £485.96.

Shop by Stores

You searched for "300678848"

SORT BY: RELEVANCE

Changes are not there.
Limited Jacket deepest bla... £485.96

Step 2 = Run the Website index Job

The screenshot shows the SAP Administration Cockpit. The left sidebar has a yellow box around "System" and another around "Facet Search Configurations". The main area shows a list of "Facet Search Configurations" with one named "apparel-ukindex". A modal window titled "Create New SolrIndexerOperationWizard" is open, showing "Operation values" with "update" selected. A green arrow points to the "START" button. Below the modal, a green arrow points to the "Index" button under "apparel-ukindex".

Administration Cockpit

facet ←

System

Search and Navigation

Solr Facet Search Configuration

Facet Search Configurations

Backoffice

Backoffice type to facet search config mapping

SAVED QUERIES

SEARCH

Create New SolrIndexerOperationWizard

SOLR INDEXER

Provide indexer configuration

Operation values

update

full

update ← START

delete

apparel-ukindex

Index → Hot Update Index

PROPERTIES INDEXED TYPES KEYWORD REDIRECTS SYNONYMS STOPWORDS CRON JOBS ADMINISTRATION

The screenshot shows the SAP Administration Cockpit with the same sidebar as the previous screen. A modal window titled "Create New SolrIndexerOperationWizard" is open, displaying the message "Indexing finished successfully". A green arrow points from the message to the "DONE" button at the bottom right of the modal.

Administration Cockpit

facet

System

Search and Navigation

Solr Facet Search Configuration

Facet Search Configurations

SEARCH

Create New SolrIndexerOperationWizard

Indexing finished successfully

CANCEL DONE

Results – In Category Page / Search Page

300678848 **Changes are coming**

Chenna RRRS - Limited Jacket deepest black M £485.96

Shop by Stores **Changes are coming**

You searched for "300678848"

SORT BY: RELEVANCE

or

Chenna RRRS - Limited Jac... £485.96

Q = What is the difference between “Full Index ... Update Index ... Hot update index”?

Let's say – We have 100 products & 25 products are modified.

Full Index = All 100 products data will move to Solr Document.

Update Index = Modified 25 products data will move to Solr.

Hot update index = Only specified products data will move to Solr.

Create New SolrIndexerOperationWizard
SOLR INDEXER
Provide indexer configuration

Operation values
full
full
update
delete

Index Hot Update Index

PROPERTIES INDEXED TYPES

PROPERTIES

Name

Create New SolrIndexerHotUpdateWizard
TYPE AND OPERATION Set indexed type and indexer operation
ITEMS Select items to index

Item type Product
Operation values update **Next**

Items Specify Product Details
1-Chenna RRRS - Limited Jacket deepest black M [300678848]

ITEMS Select items to index

START

B2C Accelerator

Site ID: ele

Type Some Chars & Hit Enter

BRANDS DIGITAL CAMERAS FILM CAMERAS HAND HELD CAMCORDERS WEB...

HOME / ELE

Shop by Stores

FIND STORES

Shop by Price

- \$0-\$49.99 (28)
- \$50-\$199.99 (51)

You searched for "ele"

SORT BY: RELEVANCE Results

149 Products found

NP03ZL MIDDLE ZOOM LENS Middle zoom lens for NP1000/200C

Marketing WCMS Website Page Type Page Template Content Slot Relation for a Page Template Page

Here we have Logic to get the results from Solr.

SAP Administration Cockpit

Facet

System

Search and Navigation

Solr Facet Search Configuration

Facet Search Configurations

Backoffice

Backoffice type to facet search config mapping

SAVED QUERIES

No queries

SEARCH

electronicIndex

0 ITEMS SELECTED

electronicIndex

Index Hot Update Index

PROPERTIES INDEXED TYPES KEYWORD RE...

SEARCH AND INDEXER CONFIGURATION

Solr server configuration Default

Indexer co Default

Edit item Default

SEARCH SERVER CONFIGURATION CLIENT CONFIGURATION ADMINISTRATION

GENERAL CONFIGURATION

Identifier Default Mode standalone

Endpoint URLs https://localhost:8983/solr Solr query method GET

Q = How to see Solr Doc Results -- URL = <https://localhost:8983/solr>

User	Password	Description
solradmin	admin123	admin user, can perform any operation
solrserver	server123	for communication between server nodes
solrclient	client123	can perform search queries
solrindexingclient	indexingclient123	can perform search queries and indexing

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The screenshot shows the Solr Admin interface with a search query in the Request-Handler (qt) field set to /select. The query parameters include q=*:* and start, rows set to 0, 10. A green arrow points to the 'Execute Query' button. To the right, the results are displayed as a JSON response with a green arrow pointing down to the results section. The results show 2484 documents found, starting from index 0, with various product details like catalogId, catalogVersion, and pickupAvailableFlag.

```

{
  "responseHeader": {
    "status": 0,
    "QTime": 0,
    "params": {
      "q": "*:*",
      "_": "1621237949468"
    }
  },
  "response": {
    "numFound": 2484,
    "start": 0,
    "numFoundExact": true,
    "docs": [
      {
        "indexOperationId": 106231143814463954,
        "id": "apparelProductCatalog/Staged/300404092",
        "pk": 8796154363905,
        "catalogId": "apparelProductCatalog",
        "catalogVersion": "Staged",
        "pickupAvailableFlag_boolean": true,
        "availableInStores_string_mv": ["Cambridge Museum", "Newcastle upon Tyne University", "Glasgow", "Birmingham Park", "Edinburgh Park"],
        ...
      }
    ]
  }
}

```

Q1 = Can we put only approved status products in Solr Doc?

Q2 = In above Solr Document, we can see mostly the Product table data & we are not able to see “cart table data (or) order table data (or) user table data (or) ...”? Why? = Because: -

The screenshot illustrates the indexing configuration for the apparel-ukIndex. It shows the SAP Comm DB with tables Cart, Order, and Product. A question is asked why Cart and Order table data are not indexed. The Solr Doc section shows the apparel-ukIndex configuration. A blue arrow points from the question to the 'apparel-ukIndex' section. A green arrow points from the 'apparel-ukIndex' section to the 'Edit item apparel-ukProductType ComposedTypeModel' dialog. The dialog shows two types: full and update. The full type has a query value: 'SELECT {p:PK} FROM {Product AS p} WHERE {p:varianttype...}'. The update type has a query value: 'SELECT DISTINCT tbl.pk, tbl.code FROM ({SELECT DISTINCT {p:PK} AS pk, {p:code} AS code FROM {Product AS p} LEFT JOIN CustomerReview AS cr ON WHERE {p:varianttype} IS NULL AND ({p:modifiedtime}) >= ...} AS t)'. The 'INDEXED TYPES' tab is selected, showing apparel-ukProductType as the identifier and Composed Type as Product.

Scenario = Assume that product table is having 150 Cols data.

Q = Are we going to keep all 150 Cols data into Solr Document = May not.

Example = Product [Table]

P_Code P_Name PPrice P_Desc P_Manual [PDF] === Cols

==> P_Manual [PDF] is not required in Solr Doc. Show this to customer when they are in **Product Details** page.

The screenshot shows the SAP CX Backoffice Administration Cockpit. On the left, the navigation menu includes 'System', 'Search and Navigation', 'Solr Facet Search Configuration', and 'Backoffice'. In the center, a table lists 'facet' configurations. One row is selected, showing 'Name: electronicsIndex' and 'Description: Electronics Solr Index'. A callout points from the text 'P_Manual [PDF]' in the previous slide to this 'Name' field. To the right, a browser window displays the Solr configuration file at `/electronicsstore/resources/electronicsstore/import/core/data/stores/electronics/solr.impex`. The file contains code defining a Solr index named 'electronicsIndex' with various properties and mappings. Another callout points from the text 'P_Manual [PDF]' to the 'electronicsIndex' entry in this file.

Edit item electronicsProductType ComposedTypeModel (8796099084370@35)

The screenshot shows the SAP CX Backoffice Administration Cockpit. The top navigation bar includes 'INDEXED TYPE', 'INDEXED PROPERTIES', 'FREE TEXT QUERY', 'GROUPING', 'SOLR SORTS', and 'ADMINISTRATION'. Below this, a section titled 'INDEXED PROPERTIES' shows a table of properties for 'Composed Type Model'. The columns include 'Name', 'Type', 'Facet', 'Multi-value', 'Use for sp...', 'Use for au...', and 'In'. Properties listed include 'itemtype', 'code', 'name', 'description', and 'summary'. A callout points from the text 'P_Manual [PDF]' to the 'name' property in this table. To the right, a browser window displays the Solr configuration file at `/solr.impex`. The file contains numerous entries for indexed properties, including 'name', 'code', 'description', and 'summary'. Another callout points from the text 'P_Manual [PDF]' to the 'name' entry in this file.

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Scenario = Creating “Indexed Properties”?

Solution 1 = We can do changes directly from Backoffice

The screenshot shows the SAP BackOffice interface for managing indexed types. On the left, under 'INDEXED TYPES', there is a list of 'Indexed Properties' with one item circled in green. A green arrow points from this circled item to a modal window titled 'Edit item apparel-ukProductType ComposedTypeModel (8796099149)'. The modal has tabs for 'INDEXED TYPE', 'INDEXED PROPERTIES' (which is selected), 'FREE TEXT QUERY', 'GROUPING', and 'SOLR SORTS'. Under 'INDEXED PROPERTIES', there are two entries: 'description' and 'summary', both set to 'text' type and 'false' for all other fields. At the bottom of this tab, there is a button labeled '+ Create new Property'.

Note = Solution 1 works no problem. But moving the changes which are done in the BackOffice from 1 Env to another 1 Env will be a challenge.

Env. [Environment] = Dev Env ... QA Env ... UAT Env ... Prod Env ...

Hence – Solution is not best practice.

Solution 2 = [Best Practice] = Do the changes in ImpEx file.

This ImpEx code we can deploy into other environments [Dev ... UAT ... Prod ...] easily.

The screenshot shows an Eclipse IDE window with a project named 'ChennaRRRS - apparelstore/resources/apparelstore/import/coredata/stores/apparel-de/solr.impex'. The code in the editor is as follows:

```
54 # Non-facet properties
55 INSERT_UPDATE SolrIndexedProperty;solrIndexedType(identifier)[unique=true];name[unique=true];type(code);
56 ;$solrIndexedType; itemtype ;string ; ; ; ; ;
57 ;$solrIndexedType; code ;string ; ; ; ;TRUE;TRUE;
58 ;$solrIndexedType; name ;text ;sortabletext ;TRUE ; ;TRUE;TRUE;
59 ;$solrIndexedType; description ;text ; ; ;TRUE; ; ;
60
61 ===== Create another Indexed Property
62 This is code changes ... We can easily deploy into other Environments [Dev ... UAT ... Prod ...]
```

A green arrow points from the note at the bottom to the text 'We can easily deploy into other Environments [Dev ... UAT ... Prod ...]'.

Scenario = “SAP Comm” comes with inbuilt Solr.

Q = Where can we see Solr details (or) Configure the Solr details?

The screenshot shows the SAP Fiori interface for managing Solr configurations. On the left, the navigation bar has a 'System' section expanded, with 'Facet Search Configurations' selected. In the center, under 'apparel-ukIndex', there is a 'PROPERTIES' tab where a 'Solr server configuration' named 'Default' is selected. A green box highlights this configuration. On the right, a detailed view titled 'Edit item Default' shows the 'SEARCH AND INDEXER CONFIGURATION' tab. It includes fields for 'Identifier' (set to 'Default'), 'Mode' (set to 'standalone'), 'Endpoint URLs' (containing 'https://localhost:8983/solr'), and 'Solr query method' (set to 'GET'). A green box highlights the 'Identifier' field. A large green box surrounds the entire right-hand configuration view.

Q = Where can we see the Solr Server Configuration code?

The screenshot shows a terminal window with a file named 'essentialdataSolr.impex'. The code is as follows:

```
8# Creates the Solr server configurations
10 INSERT_UPDATE SolrServerConfig ; name[unique=true] ; mode(code) ; username ; password ; indexingUsername ;
11 ; Default ; standalone ; solrclient ; client123 ; solrindexingclient ;
12 ; Local Standalone ; standalone ; solrclient ; client123 ; solrindexingclient ;
13 ; Local Cloud ; cloud ; solrclient ; client123 ; solrindexingclient ;
14
15# Updates the endpoints for the Solr server configurations
16 INSERT_UPDATE SolrEndpointUrl ; solrServerConfig(name)[unique=true] ; url[unique=true] ; master
17 ; Default ; http://localhost:8983/solr ; false
18 ; Default ; https://localhost:8983/solr ; true
19 ; Local Standalone ; http://localhost:8983/solr ; false
20 ; Local Standalone ; https://localhost:8983/solr ; true
21 ; Local Cloud ; localhost:9983 ; ;
22
23# Removes old http endpoints
24 REMOVE SolrEndpointUrl ; solrServerConfig(name)[unique=true] ; url[unique=true]
25 ; Default ; http://localhost:8983/solr
26 ; Local Standalone ; http://localhost:8983/solr
27
28# Updates the indexer configurations
```

Conclusions =

- 1) In 6.X version – Solr = **http** & In latest version Solr = **https**
- 2) In real time – Companies will have “**Dedicated Solr Servers / Nodes**”.
- 3) **Modes** = Cloud ... Embedded ... Standalone.

Scenario = “Solr – Facets” example.

URL =

<https://localhost:9002/yacceleratorstorefront/en/Categories/Accessories/Watches/c/340000>

Req = Your company is asking to split this into 2 parts: -
100 - 129.99 [1 Price Facet]
130 - 199.99 [1 Price Facet]

Shop by Price

- £50-£99.99 (1)
- £100-£199.99 (4)
- £200-£299.99 (3)

Products found

Image	Name	Price
	£105.26	
	£129.56	
	£137.66	
	£137.66	

Step 1 = Find “£100-£199.99” price facet & remove this. Add new price facets. Example =

```
38 # Define price ranges
39 INSERT_UPDATE SolrValueRange;${rangeValueRefID};solrValueRangeSet(name)[unique=true];r
40 ;rangeRefGBP1 ;apparelPriceRangeGBP; f0-f19.99; 0; 19.99
41 ;rangeRefGBP2 ;apparelPriceRangeGBP; f20-f49.99; 20; 49.99
42 ;rangeRefGBP3 ;apparelPriceRangeGBP; f50-f99.99; 50; 99.99
43
44 ;rangeRefGBP4 ;apparelPriceRangeGBP; f100-f199.99; 100;199.99
45
46 ;rangeRefGBP4 ;apparelPriceRangeGBP; f100-f129.99; 100;129.99
47 ;rangeRefGBP14 ;apparelPriceRangeGBP; f130-f199.99; 130;199.99
48
49 ;rangeRefGBP5 ;apparelPriceRangeGBP; f200-f299.99; 200;299.99
50 ;rangeRefGBP6 ;apparelPriceRangeGBP; f300-f399.99; 300;399.99
```

Step 2 = Execute / Import ImpEx code

The screenshot shows the hybris administration console interface. The top navigation bar includes links for Platform, Monitoring, Maintenance, and Console, with Console being the active tab. Below the navigation is a sub-menu with Scripting Languages, FlexibleSearch, ImpEx Import (which is highlighted with a green box), ImpEx Export, and LDAP. The main content area is titled "Import content" and contains a text input field with the following ImpEx code:

```
1 INSERT_UPDATE SolrValueRange; &rangeValueRefID; solrValueRangeSet(name)[unique=true]; name[unique=true]; from; to
2 ; rangeRefGBP1 ; apparelPriceRangeGBP; £0-£19.99; 0; 19.99
3 ; rangeRefGBP2 ; apparelPriceRangeGBP; £20-£49.99; 20; 49.99
4 ; rangeRefGBP3 ; apparelPriceRangeGBP; £50-£99.99; 50; 99.99
5
6 ; rangeRefGBP4 ; apparelPriceRangeGBP; £100-£129.99; 100; 129.99
7 ; rangeRefGBP14 ; apparelPriceRangeGBP; £130-£199.99; 130; 199.99
```

Below the code are three buttons: "Clear content", "Import content" (which is highlighted with a green box), and "Validate content".

Step 3 = Verify “Apparel Price Range GBP”

The screenshot shows the SAP Administration Cockpit interface. The left sidebar has a "ranges" section (highlighted with a green box) under the "Solr Facet Search Configuration" category. The main content area shows a table for "apparelPriceRangeGBP:double" facets. A red circle highlights the "Remove" button in the "Ranges" table. A red arrow points to the "Remove this." text next to the "Remove" button. A green arrow points to the "New Price Range Facets are created." text next to the newly added rows in the table.

Name	From	To
£100-£199.99	100	
£100-£129.99	100	
£130-£199.99	130	

Step 4 = Run the “Apparel Site Index”

SAP Administration Cockpit

facet

SOLR INDEXER
Provide indexer configuration

Operation values

- update
- full**
- update
- delete

apparel-ukIndex

Index Hot Update Index

PROPERTIES INDEXED TYPES KEYWORD REDIRECTS SYNONYMS STOPWORDS CRON JOBS ADMINISTRATOR

Results =

HOME / CATEGORIES / ACCESSORIES / WATCHES

Req = Your company is asking to split this into 2 parts: -
100 - 129.99 [1 Price Facet]
130 - 199.99 [1 Price Facet]

Shop by Price

- £50-£99.99 (1)
- £100-£199.99 (4)

£105.26 £129.56 £137.66 £137.66

FIND STORES

100 - 199.99 Price Facet is now splitted into 2 parts
1) 100 - 129.99 & 2) 130 - 199.99

The Private silver/brown U... £137.66

The Lodown rasta Uni £105.26

The 51-30 matte black/gold £404.96

Shop by Price

- £50-£99.99 (1)
- £200-£299.99 (3)
- £400-£499.99 (1)
- £100-£129.99 (2)
- £130-£199.99 (2)

Scenario = “Solr – Facets” based on Classification Attribute

URL =

<https://localhost:9002/yacceleratorstorefront/en/Open-Catalogue/Cameras/c/571>

The screenshot shows a storefront interface for cameras. At the top, there's a navigation bar with tabs for 'Cameras | Open Catalogue | Elect' and 'SAP CX Backoffice'. Below the navigation is a search bar with placeholder text 'I'm looking for' and a magnifying glass icon. To the right of the search bar are location and filter icons. A green horizontal bar highlights the URL in the address bar, which reads 'localhost:9002/yacceleratorstorefront/en/Open-Catalogue/Cameras/c/571'. The main content area has a title 'B2C Accelerator'. Below it is a navigation menu with links to 'BRANDS', 'DIGITAL CAMERAS', 'FILM CAMERAS', 'HAND HELD CAMCORDERS', 'WEBCAMS', 'POWER SUPPLIES', 'FLASH MEMORY', and 'CAMERA ACCESSORIES & SUPPLIES'. Underneath the menu, a breadcrumb trail shows 'HOME / OPEN CATALOGUE / CAMERAS'. On the left, there's a sidebar titled 'Shop by Mounting' with categories 'Floor-standing (2)' and 'Quick-release Mounting Shoe (1)'. The main content area displays two products: 'REMOTE CONTROL TRIPOD VCT-80AV' (Product # 1687508) and 'VCT-D580RM REMOTE CONTROL TRIPOD' (Product # 29925). The 'VCT-80AV' product has a detailed description: 'Run the show with just one hand with this remote tripod that lets you steady the camcorder or digital camera and operate it directly from the tripod grip. (expandable from 17.5''' to 45'''').

Step 1 = Find the code

The screenshot shows the SAP IDEAS interface with an open file named 'products-classifications_en.impex'. The code in the file is an impex script used for updating product classifications. It includes several 'feature' definitions and an 'UPDATE' command. The 'feature' definitions include 'feature4_1=@Tripod head, 1869[\$clAttrModifiers]', 'feature6_1=@Special features, 86[\$clAttrModifiers]', 'feature7_1=@Material, 898[\$clAttrModifiers]', 'feature8_1=@Source data-sheet, 6617[\$clAttrModifiers]', and others. The 'UPDATE' command is used to update products based on their unique codes and various features. The code is color-coded for readability.

```
$feature4_1=@Tripod head, 1869[$clAttrModifiers]; # Tripod head
$feature6_1=@Special features, 86[$clAttrModifiers]; # Special features
$feature7_1=@Material, 898[$clAttrModifiers]; # Material
$feature8_1=@Source data-sheet, 6617[$clAttrModifiers]; # Source data-sheet
UPDATE Product;code[unique=true];$feature1_1;$feature2_1;$feature3_1;$feature4_1;$feature5_1;$feature7_1;$feature8_1
;1099285;<ignore>;<ignore>;Silver/Black;<ignore>;<ignore>;<ignore>;ICEcat.biz;
;1687508;3 leg(s);Floor-standing;<ignore>;<ignore>;<ignore>;<ignore>;ICEcat.biz;
;23355;<ignore>;Quick-release Mounting Shoe;<ignore>;Oil Friction Head;Counter Balance Function;<ignore>;ICEcat.biz;
;29925;3 leg(s);Floor-standing;Silver;<ignore>;3-way Tripod Head Positioning;Quick lock;Aluminum, ABS, POM, and PC;
;342933;3;<ignore>;Black;<ignore>;<ignore>;Rubber;ICEcat.biz;
;454831;<ignore>;<ignore>;Black;<ignore>;<ignore>;<ignore>;ICEcat.biz;
;572461;<ignore>;<ignore>;Grey;<ignore>;<ignore>;<ignore>;ICEcat.biz;
;932577;hard anodized ;<ignore>;Silver/Black;3-way adjustable;Compatible with the following KODAK products Z812 I
```

Results =

1687508 **SEARCH**

Remote Control Tripod VCT-80AV [1687508] - Electronics Product

Mounting: Floor-standing

TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0

Tripod legs	3 leg(s)	.[300]
Special features	Material	[300]

+ edit delete

29925 **SEARCH**

VCT-D580RM Remote Control Tripod [29925] - Electronics Product

Mounting: Floor-standing

TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0

Tripod legs	3 leg(s)	.[300]
Special features	Material	[300]

+ edit delete

Website – Logic

Based on Mounting Classification attribute value [floor-standing] these facets are created.

Not secure | localhost:9002/yacceleratorstorefront/en/Open-Catalogue/Cameras/c/571?q=%3Arelevance%3AMounting%2C+1867%3AFloor-standing

BRANDS DIGITAL CAMERAS FILM CAMERAS HAND HELD CAMCORDERS WEBCAMS POWER SUPPLIES FLASH MEMORY CAMERA ACCESSORIES & SUPPLIES

HOME / OPEN CATALOGUE / CAMERAS

Applied Facets
Floor-standing

Shop by Mounting
Floor-standing (2)
Quick-release Mounting Shoe (1)

FIND STORES

SORT BY: RELEVANCE

REMOTE CONTROL TRIPOD VCT-80AV
Floor-standing
P# = 1687508

VCT-D580RM REMOTE CONTROL TRIPOD
Run the show with just one hand with this remote tripod that lets you steady the camcorder or digital camera and operate it directly from the tripod grip. (expandable from 17.5" to 45")
P# = 29925
\$115.00

products-classifications_en.impex *categories-classifications_de.impex

```

138 # Create Categories
139 UPDATE ClassificationAttribute;code[unique=true];$classSystemVersion;name[lang=$lang]
140 ;35 mm camera lens equival, 1678;;Kameralinse entspricht 35 mm;
141 ;AC adapter bundled, 1230;;Gebündelte Strom Adapter;
142 ;AC adapter output voltage, 904;;Strom Adapter - Ausgang Spannung;
143 ;AF actuator, 5611;;AF actuator;
144 ;Additional accessories, 1305;;Weiteres Zubehör;
145 ;Album organization, 3418;;Albumorganisation;
146 ;Aperture priority AE, 3675;;ä mit Blenden-Priorität;
147 ;Aperture range, 638;;Blendenbereich;
148 ;Aperture setting, 5775;;Öffnungseinstellung;
149 ;Apparent field of view, 2725;;Sichtbarer Ansichtsbereich;
150 ;Art, 3749;;Kunst;
151 ;Aspect ratio, 39;;Längenverhältnis;
152 ;Audio output, 1786;;Audioausgang;
153 ;Audio recorder, 85;;Audio-Recorder;
154
⇒ 155 ;Mounting, 1867;;Montage; →
156

```

products-classifications_en.impex dimension-products-classifications_en.impex

```

1# -
2# Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
3# -----
4# ImpEx for Importing Product Classifications into Electronics Store
5
6#% impex.setLocale(Locale.ENGLISH);
7
8# Macros / Replacement Parameter definitions
9$productCatalog=electronicsProductCatalog
10$productCatalogName=Electronics Product Catalog
11$catalogVersion=catalogversion(catalog(id[$productCatalog]),version[default='Staged'])[$un
12$c1AttrModifiers=system='ElectronicsClassification',version='1.0',translator=de.hybris.platform.ca
13
14
⇒ 15 $feature1_1=@Tripod legs, 1868[$c1AttrModifiers]; # Tripod legs
16 $feature2_1=@Mounting, 1867[$c1AttrModifiers]; # Mounting
17 $feature3_1=@Colour of product, 1766[$c1AttrModifiers]; # Colour of product
18 $feature4_1=@Tripod head, 1869[$c1AttrModifiers]; # Tripod head
19 $feature6_1=@Special features, 86[$c1AttrModifiers]; # Special features
20 $feature7_1=@Material, 898[$c1AttrModifiers]; # Material

```

products-classifications_en.impex *categories-classifications.impex

```

631
632 INSERT_UPDATE ClassAttributeAssignment;$class;$attribute;position;$unit;attributeType(code[default=str
633 ;1196;Non-operating relative hu, 621;1;64;number;true;true
634 ;1196;Operating relative humidi, 703;2;64;number;true;true
635 ;1196;Recommended operating tem, 473;3;65;number;true;true
636
637 ;634;Mounting, 1867;1;300; →
638

```

Not secure | localhost:9002/backoffice/

SAP Administration Cockpit

class

Catalog

Classification Systems

Classifying Categories

Classification Units

Price Settings

Prices

Product Price Classes

Taxes

SAVED QUERIES

No queries

SEARCH

Identifi... Name

634 Technical details

Sync stat...

Technical details [634] - Electronics Classification : 1.0

GENERAL CLASS ATTRIBUTES CATEGORY STRUCTURE MULTIMEDIA ADMINISTRATION

Feature Des...	Feature Type	Unit	Mandatory	Feature Desc...	Group
Tripod legs[Tripo...	String	.[300] - . - 300	false		
Mounting[Mount...	String	.[300] - . - 300	false		
Colour of produc...	String	.[300] - . - 300	false		

Technical details [634] - Electronics Classification : 1.0

Assigned Features

Feature Des...	Feature Type	Unit	Mandatory	Feature Desc...	Group	Index
Tripod legs[Tripo...	String	.[300] - . - 300	false			
Mounting[Mount...	String	.[300] - . - 300	false			
Colour of produc...	String	.[300] - . - 300	false			
Tripod head[Trip...	String	.[300] - . - 300	false			
Special features[...	String	.[300] - . - 300	false			

VCT-D580RM Remote Control Tripod [29925] - Electronics Product Catalog : Online

REFRESH SAVE

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES MULTIMEDIA VARIANTS EXTENDED ATTRIBUTES REVIEWS STOCK

TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0

Tripod legs	Mounting	Colour of product	Tripod head
3 leg(s)	Floor-standing	Silver	
[.300]	[.300]	[.300]	[.300]
Special features	Material	Source data-sheet	
+	Quick lock	Aluminum, ABS, POM	
	[.300]	[.300]	
3-way Tripod Head Positioni...			

Scenario = Solr - Keyword Redirects

The screenshot shows a B2C Accelerator storefront. At the top, there's a search bar with the word "basket" highlighted with a green arrow pointing to it. Below the search bar is a teal navigation bar with links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The main content area shows a product listing for a jacket, with a "CONTINUE SHOPPING" button at the bottom right.

Solution =

The screenshot shows the SAP CX Backoffice interface. On the left, there's a sidebar with "Facet Search Configurations" highlighted. The main area shows an index configuration named "apparel-ukIndex". Under "KEYWORD REDIRECTS", a keyword redirect is being edited for "EXACT basket". The configuration details are as follows:

Keyword	basket
Match type	EXACT
Ignore case	True
Redirect	/cart
Facet search configuration	apparel-ukIndex
Language	English [en]

Contact Us = ChennaReddyTraining@RRRS.CO.IN

Q = Where can we see the logic?

```
[solr_en.impex] 39 INSERT_UPDATE SolrFacetSearchKeywordRedirect;facetSearchConfig(name)[unique=true,default=$facetSearchConfig];;"basket";EXACT;$contentCatalogName-redirectRefID-cart;
40 ;;"cart";EXACT;$contentCatalogName-redirectRefID-cart;
41 ;;"(ski|skiing)";REGEX;$productCatalog-redirectRefID-snow;
42 ;;"(surf|surfing|breach)";REGEX;$productCatalog-redirectRefID-surf;
```

Scenario = Solr – Synonyms

Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Accessories/Caps/c/220600

B2C Accelerator WELCOME CHENNA MY ACCOUNT

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

MEN WOMEN

BANDANAS BAG

BEANIES BELTS

BELTS WATCHES

CAPS BROWSE ALL >



Not secure | localhost:9002/yacceleratorstorefront/en/search/?text=hats

B2C Accelerator WELCOME CHENNA

hats

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / HATS

Even if we search with hats ...
Caps are displaying.

Shop by Stores

SORT BY:



Solution =

The screenshot shows the Solr Admin interface for the 'apparel-ukIndex' index. The left sidebar has a 'Facet Search Configurations' section highlighted with a green box. The main area shows the 'SYNONYMS' configuration for the index. A modal window titled 'Edit item hats -> caps' is open, showing the 'From' field as 'hats' and the 'To' field as 'caps'. Other mappings listed in the main area include 'shoes,sneaker,sneakers,trainer -> shoe' and 'shades,glasses -> sunglasses'.

Q = Where can we see the logic?

```
29 ;snow;$productCatalog-redirectRefID-snow
30 ;350000;$productCatalog-redirectRefID-surf
31 # Synonyms (Must use INSERT_UPDATE here)
32 INSERT_UPDATE SolrSynonymConfig;facetSearchConfig(name)[unique=true,default=${facetSearchConfigName}];name=hats;from=hats,to=caps
33 ;;;;"shoes,sneaker,sneakers,trainer";"shoe"
34 ;;;;"shades,glasses";"sunglasses"
35
36
37
```

Note = In real time, we may ask the business to enter the synonyms in "synonyms.txt" file.

After they enter – We take that & upload in Solr Server directly.

The screenshot shows the Solr Admin interface. The left sidebar has a 'Files' section highlighted with a green box. The main area shows a list of files including 'lang/', 'protwords.txt', 'schema.xml', 'solrconfig.xml', 'stopwords.txt', and 'synonyms.txt'. A green arrow points from the 'synonyms.txt' file in the list to the 'File' input field in the top navigation bar, which contains the URL 'https://localhost:8983/solr/master_apparel-uk_Product_default/admin/file?wt=json&_=16'. The status bar at the bottom shows the URL 'localhost:8983/solr/#/master_apparel-uk_Product_default/files?file=synonyms.txt'.

Contact Us = ChennaReddyTraining@RRRS.CO.IN

Scenario = Solr – Stop words

Stop words are typically very common words considered to carry less meaning such as articles, prepositions, and pronouns.

In **SEO terminology**, stop words are the most common words that most search engines avoid, for the purposes of saving space and time in processing of large data during crawling or indexing.

This helps search engines to save space in their DB.

Example =

The screenshot shows the Solr Admin interface for the `apparel-ukIndex` index. The left sidebar is expanded to show the `Facet Search Configurations` section. The main content area displays a table of stop words:

about	do	her	that
above	does	here	that's
actually	doing	here's	the
after	down	hers	their
again		herself	theirs
against		him	them
all		himself	

Below the table, there are buttons for `EXPORT TO SOLR` and `STOPWORDS`. The `STOPWORDS` button is highlighted with a green border. The bottom of the screen shows a browser address bar with the URL `localhost:8983/solr/#/master_apparel-uk_Product_default/files?file=stopwords.txt`.

The screenshot shows the SAP Studio interface with the `stopwords.txt` file open in the code editor. The file content is as follows:

```
# some examples:  
# and  
# or
```

The file is also listed in the Project Explorer and Package Explorer panes.

Scenario = Solr Sorts

Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100

B2C Accelerator

I'm looking for

WELCOME CHENNAI

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS

Shop by Stores or **FIND STORES**

SORT BY:

- RELEVANCE
- SORT BY:
- RELEVANCE
- TOP RATED
- NAME (ASCENDING)
- NAME (DESCENDING)
- PRICE (LOWEST FIRST)**
- PRICE (HIGHEST FIRST)

Req1 = Your company don't want "Top Rated"

Req2 = Price (Lowest First) - Should come default

facet

System

Search and Navigation

Solr Facet Search Configuration

Facet Search Configurations

Backoffice

Backoffice type to facet search config mapping

SAVED QUERIES

No queries

apparel-ukindex

Index Hot Update Index

PROPERTIES INDEXED TYPES KEYWORD RE

INDEXED TYPES

Identifier

apparel-ukProductType

Edit item apparel-ukProductType ComposedTypeModel

INDEXED TYPE GROUPING SOLR SORTS ADMINISTRATION

SOLR SORTS

Sorts

Code	Name
relevance	Relevance
topRated	Top Rated
name-asc	Name (ascending)
name-desc	Name (descending)
price-asc	Price (lowest first)

ChennaRRRS - apparelstore/resources/apparelstore/import/coredata/stores/apparel-uk/solr_en.impex

File Edit Navigate Project Run SAP Window Help

Project Expl... Package Ex... solr_en.impex

```

31
32 # Define the available sorts
33 UPDATE SolrSort;indexedType(identifier)[unique=true];code[unique=true];name[lang=$long]
34 ;$solrIndexedType;name-asc;"Name (ascending)"
35 ;$solrIndexedType;name-desc;"Name (descending)"
36 ;$solrIndexedType;price-asc;"Price (lowest first)"
37 ;$solrIndexedType;price-desc;"Price (highest first)"
38 ;$solrIndexedType;relevance;"Relevance"
39 ;$solrIndexedType;topRated;"Top Rated"
40 ;$solrIndexedType;summary;"summary"
41 ;$solrIndexedType;swatchColors;"Colour"

```

Scenario = We have Facets implemented in different ways: -

1st Method =

Eclipse201912 - electronicsstore/resources/electronicsstore/import/core

Shop by Price

- \$0-\$49.99 (7)
- \$50-\$199.99 (29)
- \$200-\$499.99 (26)
- \$500-\$999.99 (19)
- \$1,000-\$10,000 (21)

Eclipse201912 - electronicsstore/resources/electronicsstore/import/sample

Shop by Megapixels

- 20 - 29.9 MP (1)
- 15 - 15.9 MP (8)
- 14 - 14.9 MP (4)
- 12 - 12.9 MP (6)
- 10 - 10.9 MP (30)
- 9 - 9.9 MP (1)
- 8 - 8.9 MP (6)

solr.impex

```

36 ;electronicsPriceRangeUSD;USD;double;rangeRefUSD1,rangeRefUSD2,rangeRefUSD3,ran
37 ;electronicsPriceRangeJPY;JPY;double;rangeRefJPY1,rangeRefJPY2,rangeRefJPY3,ran
38
39 # Define price ranges
40 INSERT_UPDATE SolrValueRange;&rangeValueRefID;solrValueRangeSet(name)[unique=true]
41 ;rangeRefUSD1;electronicsPriceRangeUSD; $0-$49.99; 0; 49.99
42 ;rangeRefUSD2;electronicsPriceRangeUSD; $50-$199.99; 50; 199.99
43 ;rangeRefUSD3;electronicsPriceRangeUSD; $200-$499.99; 200; 499.99
44 ;rangeRefUSD4;electronicsPriceRangeUSD; $500-$999.99; 500; 999.99
45 ;rangeRefUSD5;electronicsPriceRangeUSD;$1,000-$10,000;1000; 1000000
46
47 ;rangeRefJPY1;electronicsPriceRangeJPY; ¥0-¥4,999; 0; 4999
48 ;rangeRefJPY2;electronicsPriceRangeJPY; ¥5,000-¥19,999; 5000; 19999
49 ;rangeRefJPY3;electronicsPriceRangeJPY; ¥20,000-¥49,999; 20000; 49999
50 ;rangeRefJPY4;electronicsPriceRangeJPY; ¥50,000-¥99,999; 50000; 99999
51 ;rangeRefJPY5;electronicsPriceRangeJPY; ¥100,000-¥10,000,000;1000000;10000000
52

```

System

- Advanced Configuration
 - Configuration for content transformation
- Search and Navigation
 - Solr Facet Search Configuration
 - Ranges

Name	Type
pcmBackofficeWeightRanges	double
MegaPixelRange	double
electronicsPriceRangeJPY	double
electronicsPriceRangeUSD	double

2nd Method =

The screenshot shows a product catalog interface for a 'Remote Control Tripod VCT-80AV [1687508] - Electronics Product Catalog : Online'. On the left, there's a sidebar with sections like 'Shop by Camera Mode' (Professional 2, Standard 2), 'Shop by Mounting' (Floor-standing 2, Quick-release Mounting Shoe 1), and a navigation menu with 'Inbox', 'System', 'Catalog' (selected), 'Catalogs', 'Catalog Versions', 'Categories', 'Products' (selected), and 'Product Variant Types'. The main area displays technical details and attributes. Under 'ATTRIBUTES', there's a facet for 'Mounting' with options 'Floor-standing' and 'Chenna RRRS Floor'. The 'Floor-standing' option is highlighted with a green box and a red arrow pointing from the sidebar's 'Shop by Mounting' section. The 'Chenna RRRS Floor' option is also highlighted with a green box.

Advantage = These values can be dynamic.

Based on values [Floor-standing] we can see facets.

These facet values may be coming from 3rd party system.

Today we have Mounting value = **Floor-standing**.

Tomorrow we have Mounting value = **Chenna RRRS Floor**

The screenshot shows a product catalog interface for a 'Remote Control Tripod VCT-80AV [1687508] - Electronics Product Catalog : Online'. The sidebar and navigation menu are identical to the previous screenshot. In the main area, under 'ATTRIBUTES', the 'Mounting' facet is shown with the value 'Chenna RRRS Floor' highlighted with a green box. This value has been changed from 'Floor-standing' to 'Chenna RRRS Floor'.

```

Today ==
Mounting [Attribute]
For Product [P1] ... Mounting value = Floor-Standing
For Product [P2] ... Mounting Value = Floor-Standing

Tomorrow ==
Mounting [Attribute]
For Product [P1] ... Mounting value = Floor-Standing
For Product [P2] ... Mounting Value = Chennai RRRS Floor

```

Note = Whatever facets we are seeing in Category page are comes from Solr. So, to see above results we need to run the **Solr Indexing now**.

In Real time – We will have **jobs** to run this Solr Indexing automatically.

Q = How to run the Solr Indexing Manually?

The screenshot shows the SAP Administration Cockpit interface. On the left, the navigation tree is expanded under 'System' to show 'Search and Navigation' and 'Solr Facet Search Configuration'. Within 'Solr Facet Search Configuration', 'Facet Search Configurations' is selected. A new configuration named 'electronicsIndex' is being created. The 'Create New SolrIndexerOp' dialog is open, showing 'SOLR INDEXER' and 'Provide indexer configuration'. The 'Operation values' field is set to 'update'. A green arrow points from the 'START' button in the dialog to the 'electronicsIndex' entry in the list. The main interface shows the 'electronicsIndex' configuration with tabs for PROPERTIES, INDEXED TYPES, KEYWORD REDIRECTS, SYNONYMS, STOPWORDS, and CRO.

Results =

The screenshot shows the SAP storefront for 'Digital Cameras | Cameras | Open'. The sidebar on the left lists facets for 'Shop by Camera Mode' (Professional, Standard) and 'Shop by Mounting' (Floor-standing, Quick-release Mounting Shoe). The main content area shows a product image of a Sony Cyber-shot camera. Below it, a 'Shop by Mounting' facet is displayed with two sections: 'Today' (containing 'Chenna RRRS Floor (1)') and 'Tomorrow' (containing 'Floor-standing (1)', 'Quick-release Mounting Shoe (1)'). A red arrow labeled 'Today' points to the 'Chenna RRRS Floor' result, and another red arrow labeled 'Tomorrow' points to the 'Floor-standing' result.

Digital Cameras | Cameras | Open X +

Not secure | localhost:9002/yacceleratorstorefront/electronics/en/Open-Catalogue/Cameras/Digital-Cameras/c/575

Shop by Mounting

- Floor-standing (1)
- Quick-release Mounting Shoe (1) 
- RRRS Floor (1)

Shop by Megapixels

- 20 - 29.9 MP (1)
- 15 - 15.9 MP (8)
- 14 - 14.9 MP (4)
- 12 - 12.9 MP (6)
- 10 - 10.9 MP (30)



Cyber-shot W80 - Stylish aluminium camera, with 7.2 effective megapixels, HD output, do blur and face detection technologies, ZEISS 3x optical zoom lens, 2.5-inch LCD screen, vie and STAMINA battery life.

```

6 #%% impex.setLocale(Locale.ENGLISH);
7
8 # Macros / Replacement Parameter definitions
9 $productCatalog=electronicsProductCatalog
10 $productCatalogName=Electronics Product Catalog
11 $catalogVersion=catalogversion(catalog(id[default=$productCatalog]),version[default='Staged'])
12 $clAttrModifiers=system='ElectronicsClassification',version='1.0',translator=de.hybris.platform
13
14
15 $feature1_1=@Tripod legs, 1868[$clAttrModifiers]; # Tripod legs
16 $feature2_1=@Mounting, 1867[$clAttrModifiers]; # Mounting
17 $feature3_1=@Colour of product, 1766[$clAttrModifiers]; # Colour of product
18 $feature4_1=@Tripod head, 1869[$clAttrModifiers]; # Tripod head
19 $feature6_1=@Special features, 86[$clAttrModifiers]; # Special features
20 $feature7_1=@Material, 898[$clAttrModifiers]; # Material
21 $feature8_1=@Source data-sheet, 6617[$clAttrModifiers]; # Source data-sheet
22 UPDATE Product;code[unique=true];$feature1_1;$feature2_1;$feature3_1;$feature4_1;$feature6_1;;
23 ;1099285;<ignore>;<ignore>;Silver/Black;<ignore>;<ignore>;<ignore>;ICEcat.biz;
24 ;1687508;3 leg(s);Floor-standing;<ignore>;<ignore>;<ignore>;<ignore>;ICEcat.biz;
25 ;23355;<ignore>;Quick-release Mounting Shoe;<ignore>;Oil Friction Head;Counter Balance Function;
26 ;29925;3 leg(s);Floor-standing;Silver;<ignore>;3-way Tripod Head Positioning;Quick lock;Alumi;
27 ;3429337;3;<ignore>;Black;<ignore>;<ignore>;Rubber;ICEcat.biz;
```

Digital Cameras | Cameras | Open X +

Not secure | localhost:9002/yacceleratorstorefront/electronics/en/Open-Catalogue/Cameras/Digital-Cameras/c/575

Shop by Mounting

- Floor-standing (1)
- Quick-release Mounting Shoe (1) 
- RRRS Floor (1)

Shop by Megapixels

- 20 - 29.9 MP (1)
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Cyber-shot W80 - Stylish aluminium camera, with 7.2 effective megapixels, HD output, do blur and face detection technologies, ZEISS 3x optical zoom lens, 2.5-inch LCD screen, vie and STAMINA battery life.

?

101 your memories in perfect quality. Our Camcorder product range offers you a high
102 103 new SHOULDER STRAP F828 F717 F707 V1 MAVICA HANDYCAM; New SHOULDER STRAP F828 F717
104 r Kit; This starter kit is specially made for DSCP20, DSCP30 & DSCP50 cameras.
105 x 16MB MPEG USB; DSC-P71 NON 3.2Mpix 8MB MPEG USB; The Cyber-shot DSC-P71 takes al
106 x MPEG CD-RW USB; Sony Mavica MVC-CD400 Digital Camera; Never run out of storage s
107 ix 32MB JPEG MPEG USB2; Digital Cyber-shot DSC-F717 NON 5.2Mpix 8MB Carl Zeiss Len
108 br/>Maximum Load: 5 70 degrees up

/Quick-release Mounting Shoe

/
109 DHC video; Makes capturing your memories on video easier than ever. Kingston Tech
110 deo; Makes capturing your memories on video easier than ever. Kingston Technology
111 SDHC video; Makes capturing your memories on video easier than ever. Kingston Tec
112 ht; 20-watt video light compatible with InfoLITHIUM M-series batteries.; -20-watt
113 thium f Cyber-shot; AC Power Adaptor;

Enables power supply from an AC out
114 AC-VQP10 CHARGER F P BATTERY; AC charger and adaptor for P series InfoLITHIUM ca
115 ixeIM CMOS, 640X480, USB 1.1) Black; 100% Webcam with blue LED & Rubber coating W
116 0; Thanks to their ultra-compact and lightweight design, these are the most porta
117 B DC adaptor; Suitable for Powering your camera directly in a car or boat from a
118 H InfoLITHIUM Battery; - STAMINA super long battery life.
- Lithium-ion cells
119 SH64; Cyber-shot W1 + MSH64; 5.1 effective Megapixel Cyber-shot W1 with 3x optical

Scenario = Hide / Display components

Not secure | localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100

WELCOME CHENNAI MY ACCOUNT SIGN OUT

B2C Accelerator

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CATEGORIES / SNOWWEAR MEN / SNOW JACKETS

Shop by Stores

Sort By: RELEVANCE

Shop by Price

£50-£99.99 (14)

£100-£199.99 (23)

£200-£299.99 (1)

7 Products found

SAP Hybris and Co... 06:05:29

Req = Your company don't want the facet Component

Solution =

Administration Cockpit

Filter tree (Alt+Down for options)

WCMS

Website

Page Type

Page Template

Content Slot Relation for a Page Template

Page

Content Slot

Content Slot Relation for a Page

Component

Component Type Group

Simple CMS Action

facet

ID Name Catalog Version Visib...

RefinementFacetCompone... Product Refinement Facet Component Apparel UK Content Catalog : Online true

0 ITEMS SELECTED

Product Refinement Facet Component

PROPERTIES RESTRICTIONS CONTENT SLOTS ADMINISTRATION

VISIBILITY

Visible True False

Scenario = How to get our new attribute value in product listing page [PLP] by using Solr files?

(OR) How to show new attribute value of product model on PLP?

(OR) Index a custom product attribute with Solr in “SAP Comm”?

<https://answers.sap.com/questions/12760008/how-to-show-new-attribute-value-of-product-model-o.html>

<https://www.stackextend.com/hybris/index-a-custom-product-property-with-solr-in-hybris/>

Q: What is the “SAP Comm”?

1) Enterprise eComm Sol & PCM Software

Using “SAP Comm”, we can create something like – Croma ... Amazon ...

PCM = Product Content Management Software

For managing for Content / Products ... “SAP Comm” provides Cockpits.

2) “Hybris” is the company – 1997

Initially this company was in Switzerland ... Latter they moved to Germany.

SAP bought “Hybris” in “Aug 1st 2013”. Latter renamed as “SAP Comm”.

3) “SAP Comm” is “Omni-Channel” =

Any channel ... Any device ... Anywhere

4) “SAP Comm” provides – Many Cockpits.

Cockpit = Small software.

Each cockpit will have its purpose.

5) “SAP Comm” is built on “Spring FWK”

So, “SAP Comm” leverages all the features of “Spring FWK”.

Q = What is the major Spring FWK Concepts used in “SAP Comm”?

- 1) AOP = Aspect Oriented Programming
- 2) Dependency Injection – Also called as “Inversion of Control”
- 3) Spring MVC
- 4) Spring Security
- 5) =====

6) “SAP Comm” is on top of “Open-Source tools”

“SAP Comm” uses ... Java “SAP Comm” uses ... ANT

“SAP Comm” uses ... HSQL DB

“SAP Comm” uses ... “Hybris Server”

Note = “Hybris Server” is built on top of Apache.

7) Pillars of “SAP Comm”: -

“SAP Comm” is on Open-Source tools.

“SAP Comm” supports B2B, B2C, Telco and ...

“SAP Comm” supports best integrations

“SAP Comm” is Omni Channel.

8) “SAP Comm” is not a tool ... “SAP Comm” not an FWK

“SAP Comm” is more than this = “SAP Comm” is the platform.

If XXX = Platform Using that XXX = We can develop End – End Solutions. Using “SAP Comm” – We can develop End – End Solutions.

Scenario = The way eComm works (Rules & Regulations) in India ... in USA ... in China ... in German / ... is different.

Example 1 = In case of US public site... whenever you display the price, displaying VAT message (Included / Excluded) is optional.

But in case of Germany public site... Whenever you display the price, displaying VAT message (Included / Excluded) is mandatory.



Example 2 = In case of US site ... Item level tax labels display is optional.

But in case of Brazil, Item level tax labels display is mandatory.

	Number 12869	IN PROCESS Pickup / Delivery Date is displayed based on Shipping Condition		
Quantity		SURCHARGE / DISCOUNT / TAX		
1.0 PL	11 Aug 2017	IDT BR PIS (1.65%)	17,75 BRL	
<hr/>				
IDT BR COFINS (7.6%)				81,76 BRL
IDT BR ICMS (18.0%)				193,65 BRL

Scenario = SAP bought “Hybris” “Aug 1st 2013”.

SAP also having other eComm Solutions.

Q = What are the different eComm Sol's available from SAP?

1) Online Store (~1996)

- Only B2C
- Only R/3
- Plain HTML
- ===

The screenshot shows the Streamline.com website interface from 2000. The top navigation bar includes links for 'myLIST', 'myACCOUNT', 'myMESSAGES', 'HELP', 'Shop our partners', 'home', 'SEARCH: advanced', and a search bar with a 'GO' button. On the left, a sidebar titled 'The Supermarket' lists categories like Baby Care, Bakery, Beverages, Dairy, Deli and Cheese, Produce and Floral, Frozen Foods, Household Supplies, Ethnic Foods, Meat and Seafood, Natural Foods, and Packaged. The main content area displays a 'Current Order' summary showing 11 items, \$20.90, and the next delivery date as 04/27/2000. Below this are buttons for 'Review & Complete Order' and sorting options ('Sort by: Brand ↑ Price ↑' and 'Brand ↓ Price ↓'). A table lists a single item: Coca Cola Classic 12 pack - LINE #1....!, with a price of \$2.39 and a 'sale' icon. There are buttons for 'order' (checkbox), 'qty' (input field with a down arrow), 'product information' (link), 'price' (\$2.39), and 'add to myList' (checkbox). A 'previous page' link is at the bottom right.

2) ISA (~2002)

- Supports both B2C & B2B
- Support only Sync Integration
- Is not RWD / not Mobile friendly
- ===



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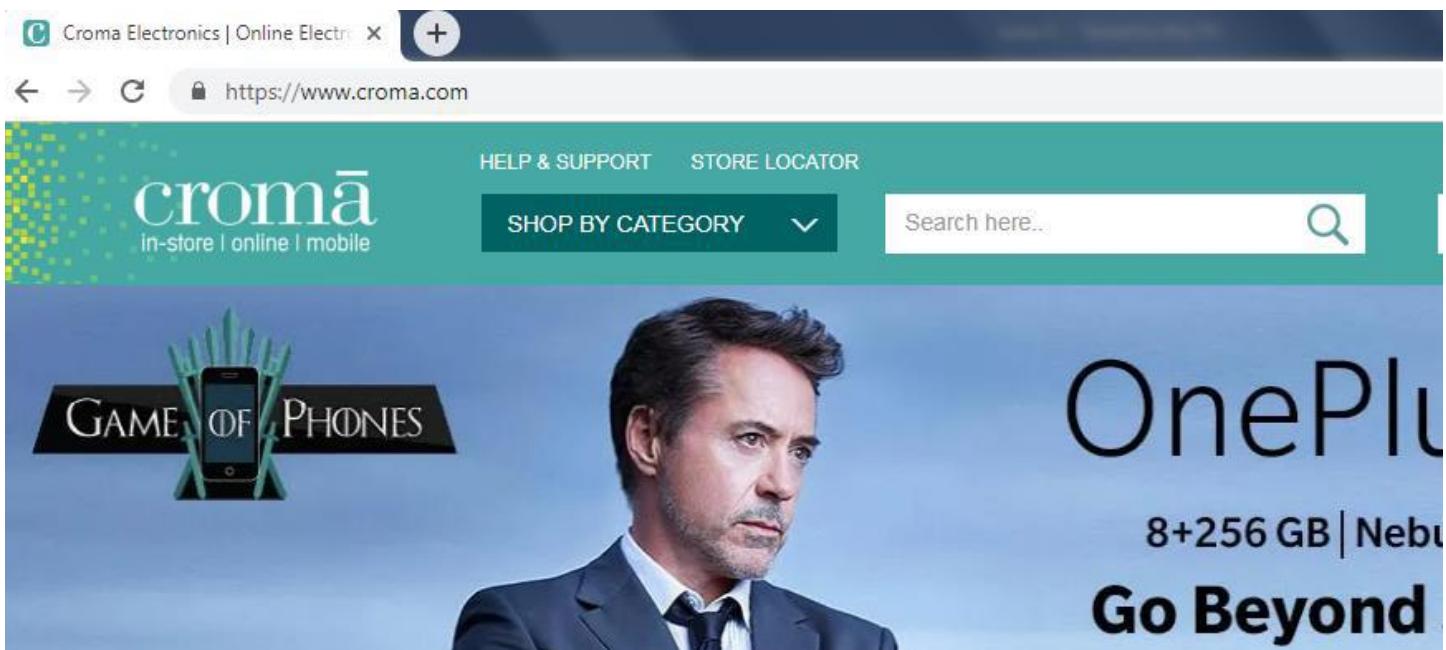
3) WCEM (~2009)

- Lots front end improvements
- No Cockpits
- No SmartEdit
- No road map after “SAP Comm” acquisition (1st Aug 2013)
- No Omni Channel eCommerce
- Backoffice job is not easy
- =====

4) Hybris / “SAP Comm” (~2013)

- Syn & Async
- Connect – HANA ... ECC ... SRM ... CRM ...
- Mobile (RWD)
- Cockpits (Backoffice Job easy)

- Easy integrations
- Ready to use accelerators
- Easy Content & Product management
- Open source based & it's platform
- SmartEdit ... Omni Channel ...
- =====



Note = “SAP Comm” = eComm Sol.

Q= What is eComm?

Buying / Selling

Of What = Products / Services

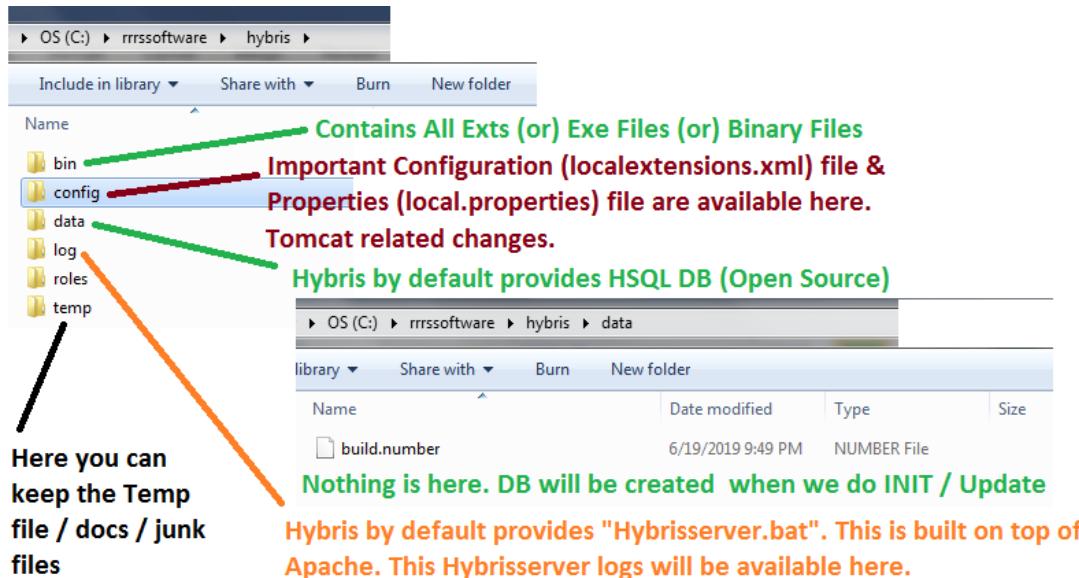
From whom = Business / Consumer

How = Through Internet (WWW).

Scenario = What are the different XML files we have in “SAP Comm”?

- 1) Platform\extensions.xml
- 2) Config\localextensions.xml
- 3) Exts\extensioninfo.xml
- 4) Exts\buildcallbacks.xml
- 5) Web-Exts\web.xml
- 6) Hot-folder-spring.xml
- 7) Core-items.xml
- 8) Core-advanced-deployment.xml
- 9) Spring-security-config.xml
- 10) *core-spring.xml
- 11) *Initialdata-spring.xml
- 12) *beans.xml
- 13) =====

Scenario = Explain the “SAP Comm” Directory Structure?



Scenario = What Recipe contains?

1) Generally, Any recipe will have 2 files (build.gradle file & readme.txt)

Readme.txt = Will have information about the Recipe.

Build.gradle = Will be created with "Groovy Scripting"

2) Q = What Build.gradle file contains?

a. 3 mandatory tasks

- i. Setup = Installs recipe & copies files. Install command.
- ii. Initialize = Initializes the recipes
- iii. Start = Start the application.

b. Local properties

c. Extensions

d. DB Configuration

e. Calls required plugins

f. Server information. Example = Apache Tomcat.

g. =====

3) "SAP Comm" installer is Gradle-based project written in Groovy.

It simplifies installing the "SAP Comm" commerce suite. File Name = build.gradle.

4) Content of installer recipes varies depending on what flavor of "SAP Comm" commerce is to be installed. Mandatory content is "setup, initialize & start". Depending on flavor of "SAP Comm" commerce suite, installer recipe may require additional info such as: - Plugins, Extensions, Properties & Servers.

Scenario = In “SAP Comm” – We have different types possible of integrations: -

- 1) RESTful
- 2) Web Service
- 3) RFC
- 4) Extension
- 5) OCC
- 6) Hot folder
- 7) DataHub
- 8) Staging DB
- 9) JMS Message Q
- 10) Web Methods
- 11) Kafka (Pub ... Sub ...)
- 12) Direct HANA Query
- 13) SCPI
- 14) ===

Q = Which of following Storefront available with B2C Accelerator?

- 1) Apparel-UK
- 2) Apparel-DE
- 3) Electronics
- 4) Powertools
- 5) All above

Scenario = Let's Observe the Backoffice URL's: -

<https://localhost:9002/backoffice/login.zul>

In Java – We have JSP pages.

In .NET – We have ASP pages.

In Web Technologies – We have HTML pages.

In "SAP Comm" – For Cockpits / Backoffice – We have ZUL Pages.

"SAP Comm" Backoffice are created with ZK (ZKOSS) FWK.

This ZK FWK uses ZUL pages.

Q = What is the **ZKOSS FWK**?

It's open source ... Java based ... Light Java Scripting & Ajax based technology.

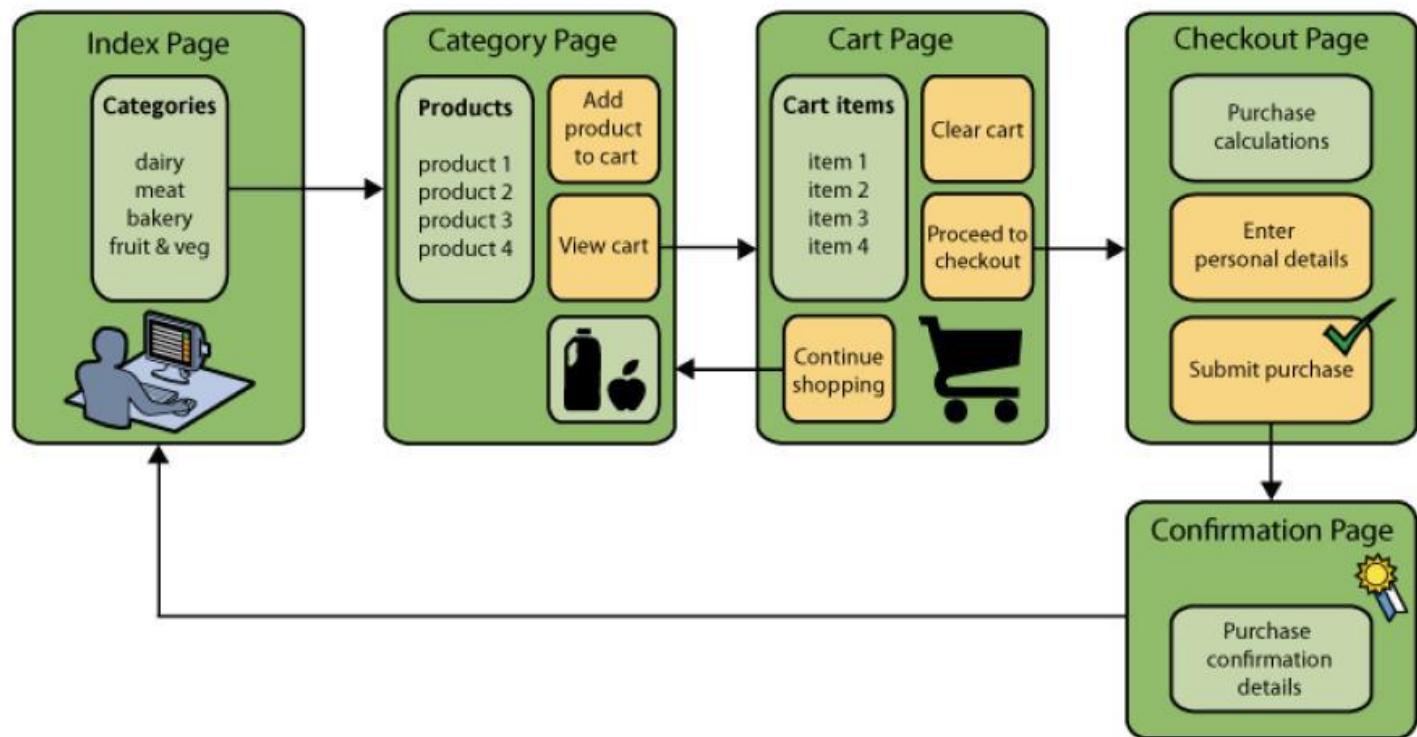
U can develop Enterprise Web & Mobile applications.

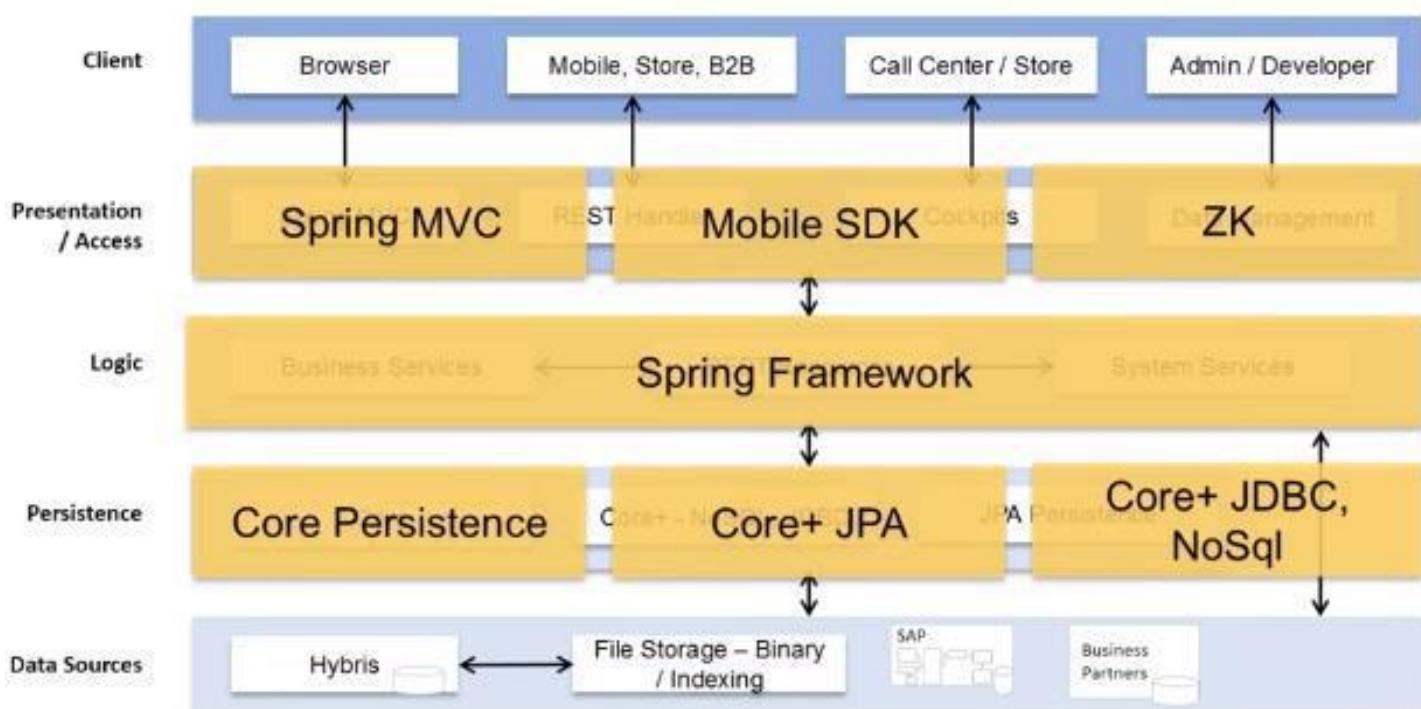
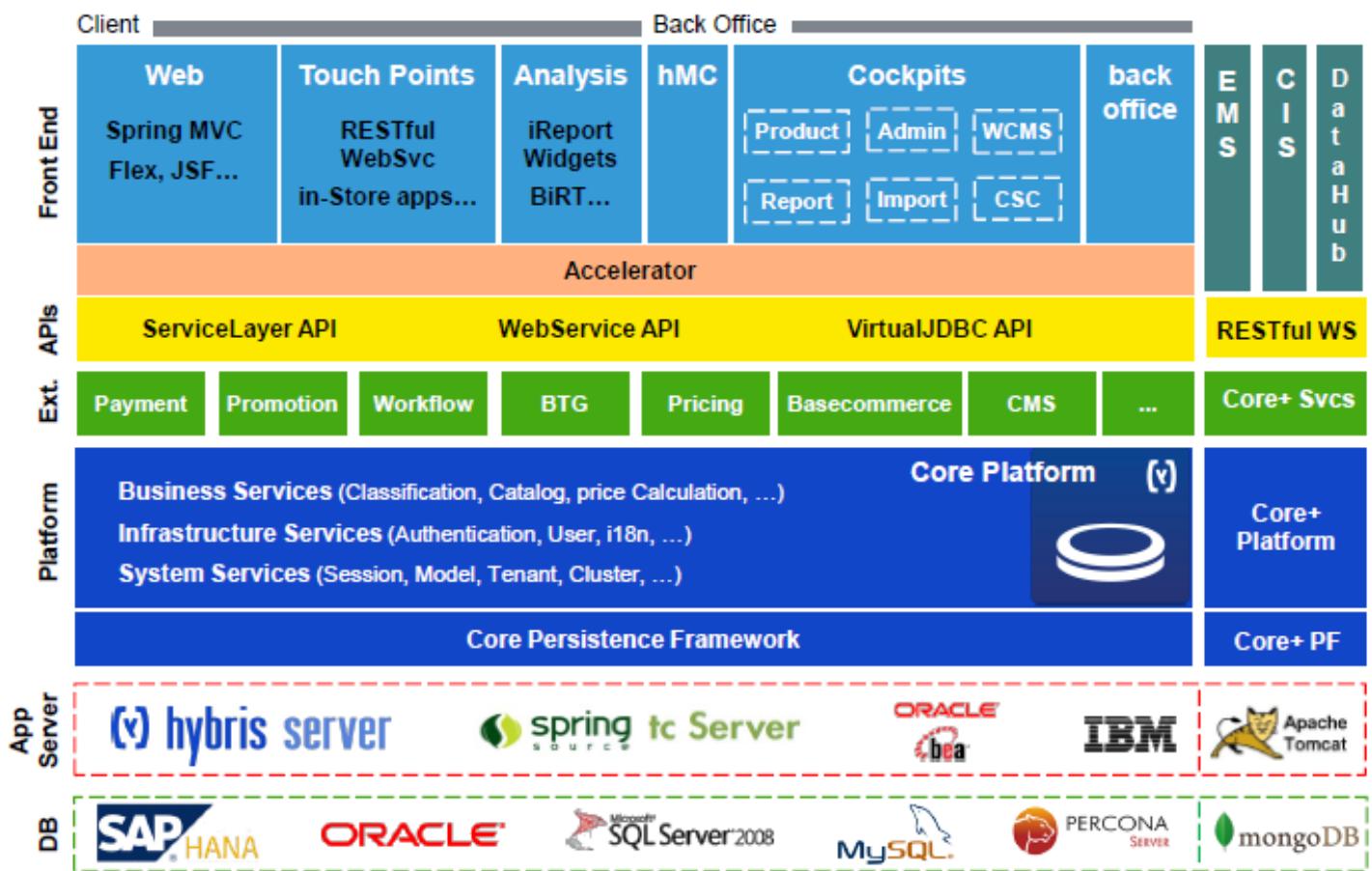
It provides the scratchable components.

Q = Which of the following correct for Cockpits?

- 1) JSP Pages
- 2) ZUL Pages
- 3) Java
- 4) REST Templates
- 5) ZKOSS FWK
- 6) All above

Process flow





Contact Us = ChennaReddyTraining@RRRS.CO.IN

Scenario = “SAP Comm” C4C = Sales & Services.

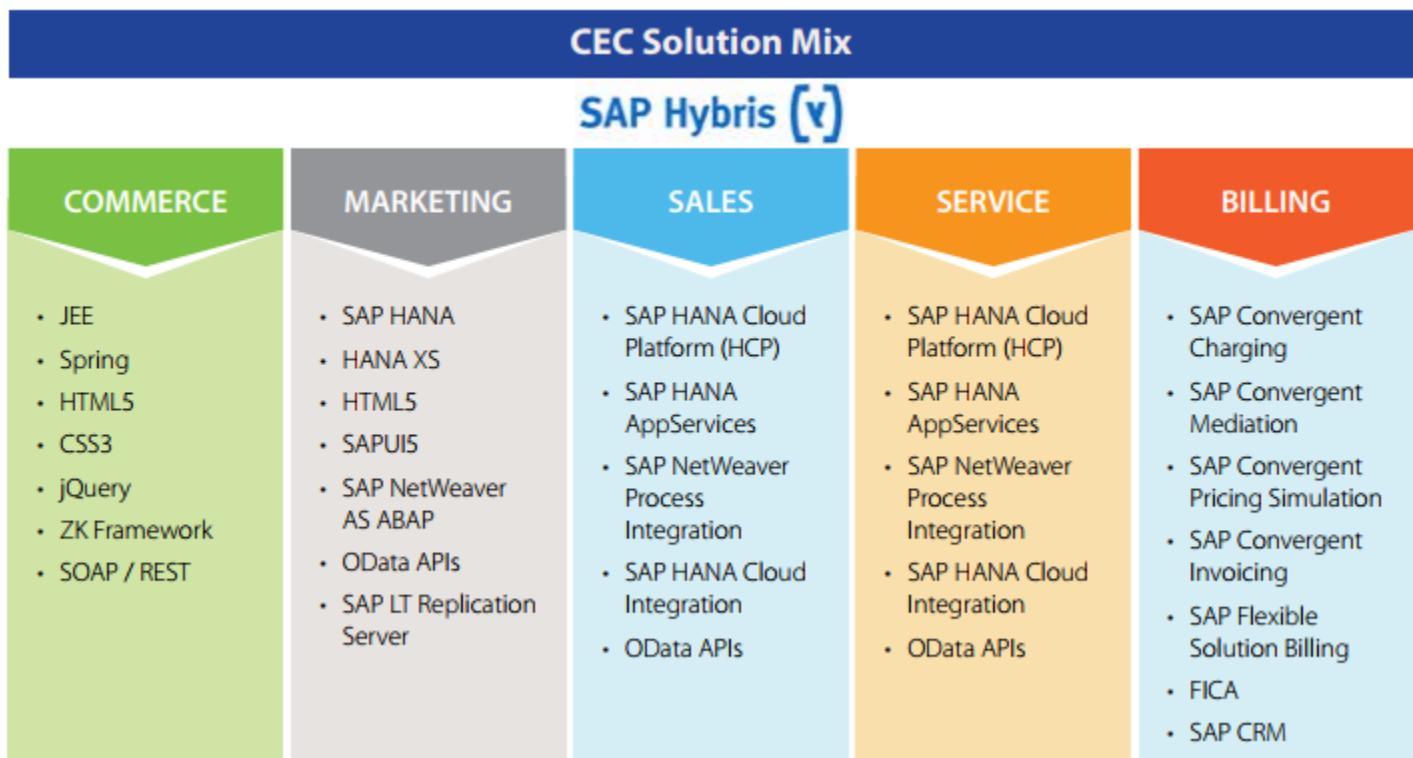
For Sales & Services Purpose we have also have SAP CRM.

Q = Does C4C replaces the CRM? = This direction is not there so far.

“SAP Comm” – C4C = Light weight ... Cloud based ... Mobile friendly Sol.

Facebook – Mobile == “SAP Comm” C4C

Facebook – Desktop = SAP CRM



Q = What is Digital Transformation (DT)?

It's not just creating “Site / eComm / Web Services /”. It's more than that. **Digital** = Pace of change that occur due to “Rapid Adoption of Technology”. **DT** = Innovation Strategy Planning Org. Change

To do all these ... You need Technology. “SAP Comm” is one of the DT technologies.

Scenario = What is C/4 HANA?

SAP 4th generation CX Suite.

CX = Customer Experience.

SAP is having different stacks: -

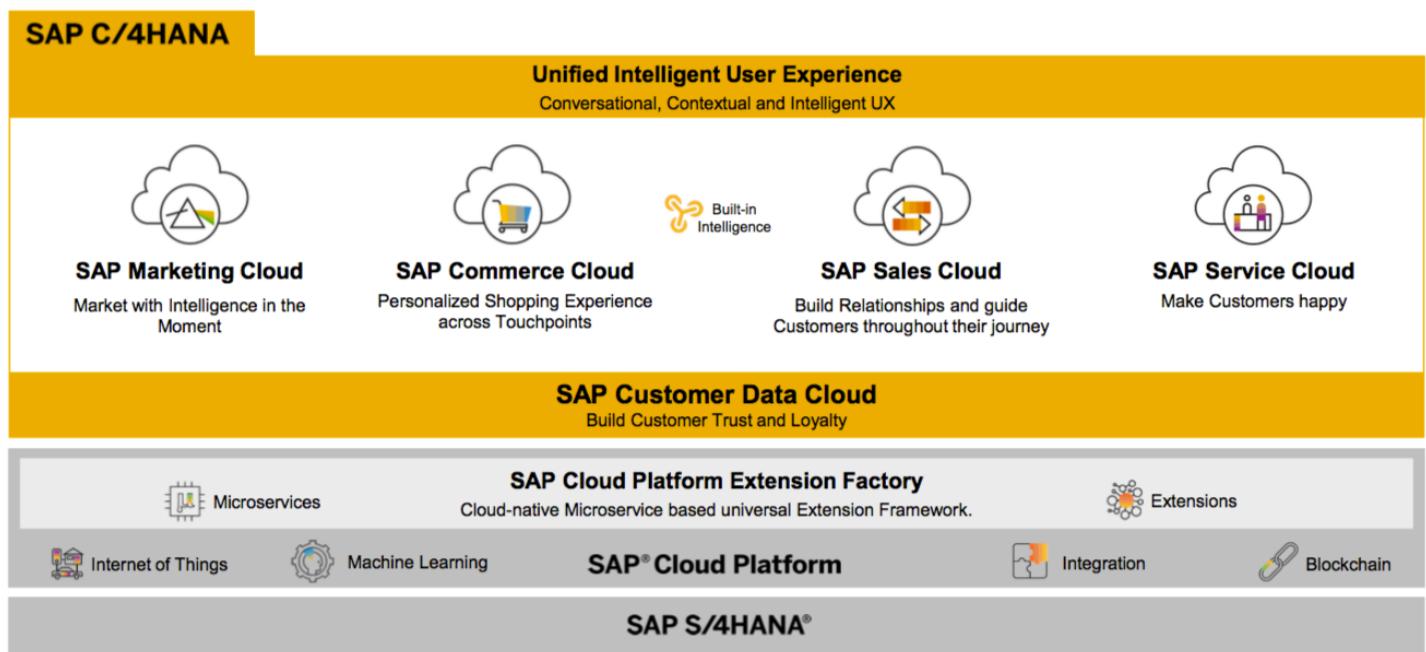
SAP – ECC == SD ... MM ... FI ... CO ...

SAP – NW == Portal ... XI

SAP – C/4 HANA == Marketing Cloud ... Commerce Cloud

Q = C/4 HANA is collection of technologies: -

- | | |
|----------------------------|-----------------------|
| 1) SAP Marketing Cloud | 2) SAP Commerce Cloud |
| 3) SAP Sales Cloud | 4) SAL Services Cloud |
| 5) SAP Customer Data Cloud | |



====> SAP “**SAP Comm**” is replaced by **SAP CX** for Brand & SAP C/4 HANA for CX Suite.

You can visualize – **SAP C/4 HANA** = Set of “Frontend” cloud solutions.

Scenario = UI ... UX ... CX ...

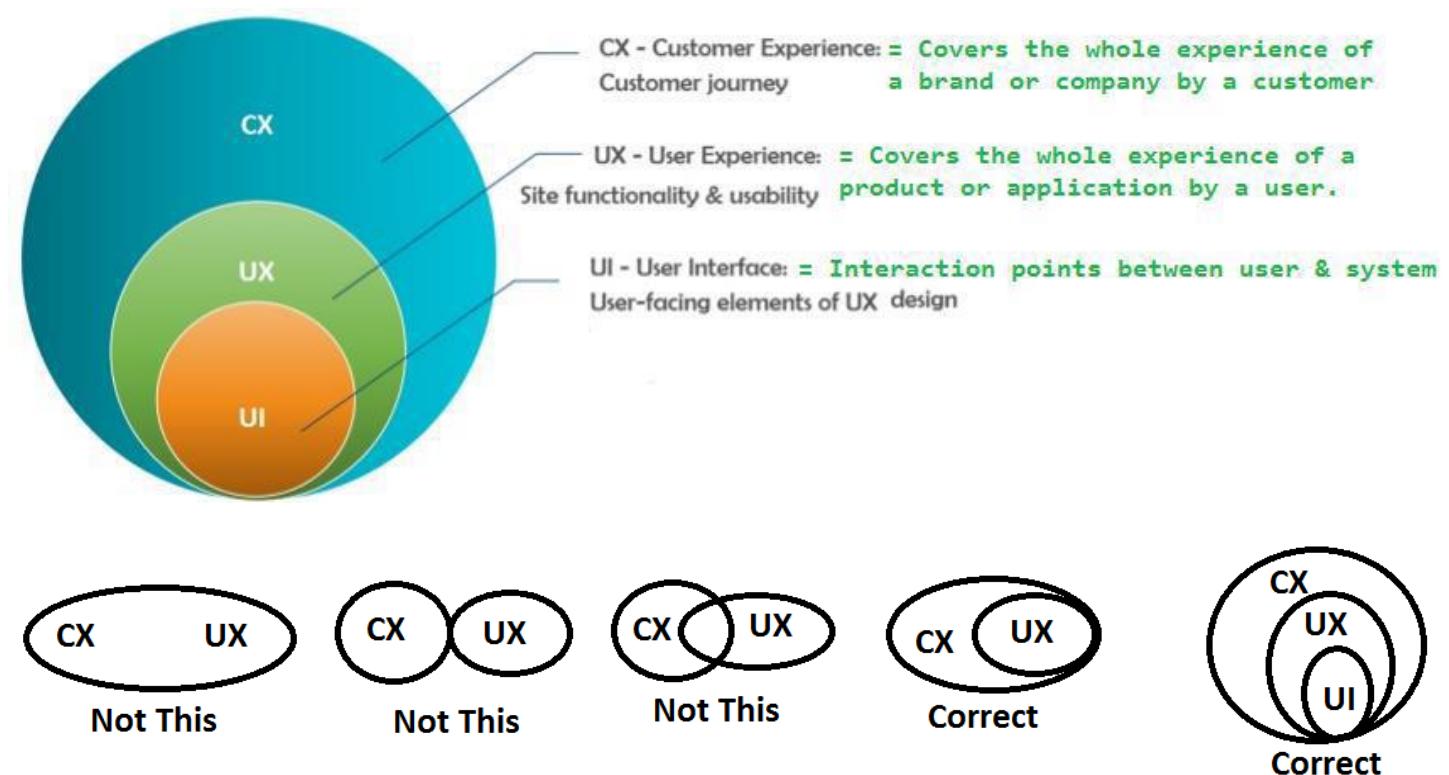
UI = Interaction points between User & System.

UX = Covers the whole experience of Product / Application by a User.

Site functionality & Usability.

CX = Covers the whole experience of a Brand / Company by a Customer.

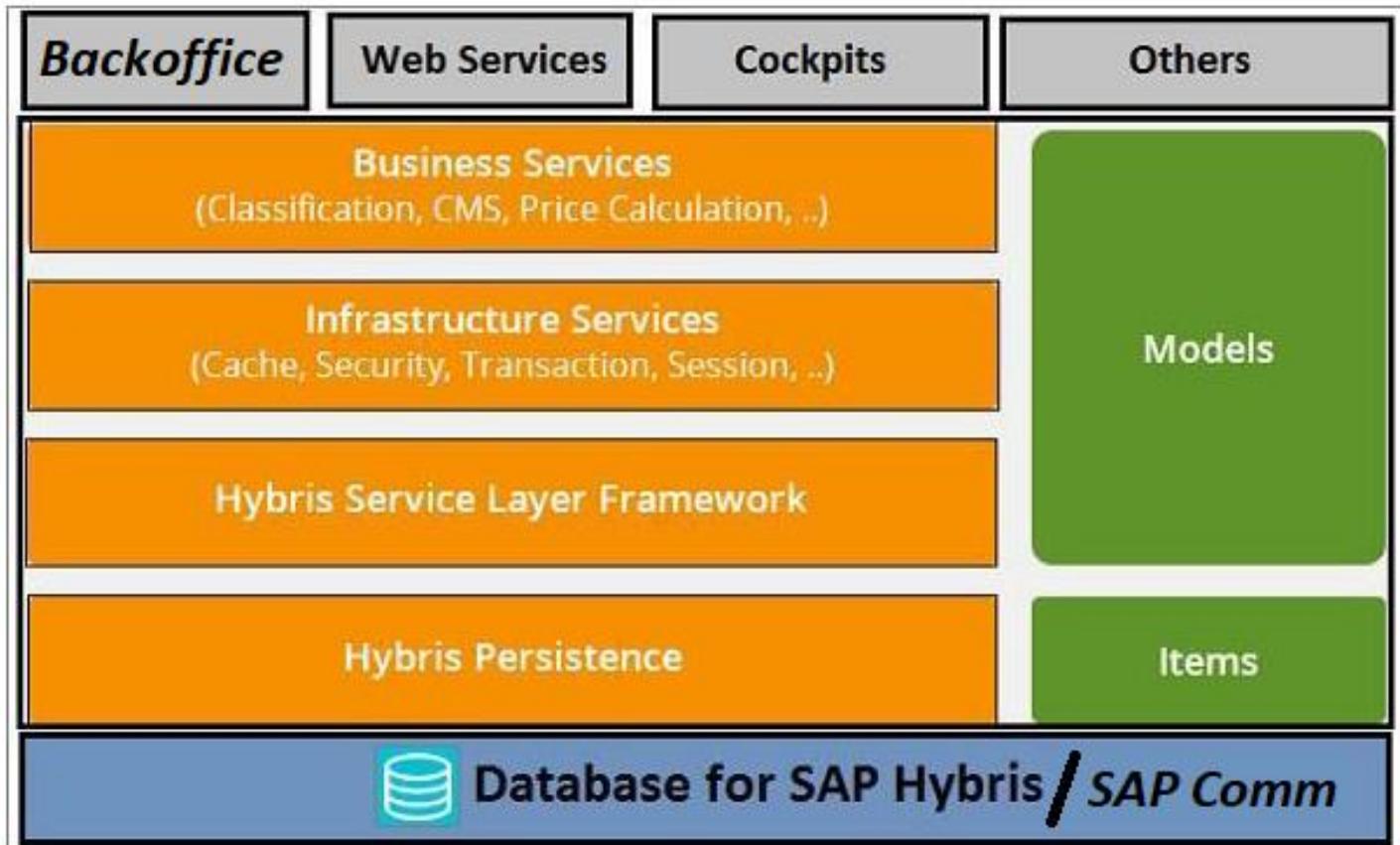
Customer Journey.



Q = Explain “SAP Comm” Commerce Accelerator?

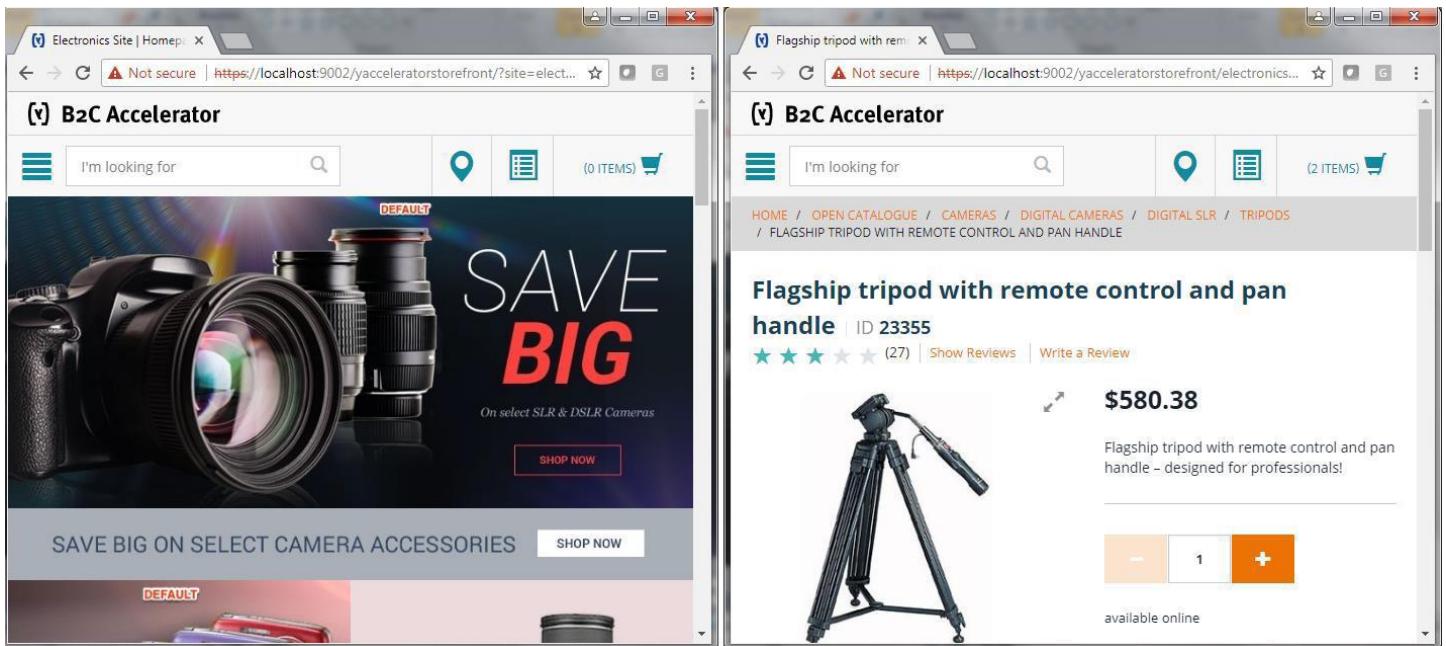
- “SAP Comm” provides “ready-to-use” solutions (with storefront templates & business tools), that allows to create great CX. When new project started, everything working for you (Just rebrand & customize as needed). Accelerator reduces the cost & speeds up the implementation process.

- Accelerator is available for B2B, B2C, Financial services &..... Below shows architecture of Accelerator: -



- Top Layer (Backoffice, WS, Cockpits...) = Used for end user interaction purpose. Various actions are performed with these (like – Add product to cart, edit qty in carts, manage user profiles and ...)
- “SAP Comm” Service Layer FWK = Responsible to implement Java Application programmers’ interface for objects in the “SAP Comm” commerce suite.
- Persistence Layer = Responsible for Abstraction from DB, Caching & Clustering.
- DB Layer = Used to store data contained in “SAP Comm” Commerce suite.

- Below screen shows, how “SAP Comm” B2C Accelerator that contains storefront templates & business tools: -



Q = What are the B2B Accelerator Key Features?

- Back-office integration
- Online ordering
- Custom Pricing
- Credit management
- Early Login
- Punchout support
- Organization Management
- Order Approval

- Self-service account management
- Custom catalogs
- Price quote requests
- Multi-dimensional products
- Advanced product search
- Send Control
- Order Replenishment

=====

Scenario = What are the B2C Accelerator Key Features?

- | | |
|---|----------------------|
| Web Content Management | Email Communication |
| Data Import | SEO |
| Merchandizing | Internationalization |
| Search and Navigation | Product Details |
| Store Locator | Shopping Cart |
| Checkout | Fraud Engine |
| Order Management | Payment |
| Customer Service | Reporting |
| Device Detection | |
| Solr Search Improvements | |
| Express Checkout | |
| Vanilla Look and Feel | |
| Mobile B2C Storefronts | |
| Customer Account Management & Google Shopping and Local | |
| Google (or) Jirafe -- Analytics Integration | |
| Componentization: Product Results as You Type | |
| Componentization: Cart Page Cross-Sells | |
| User Generated Content & Social Network Integration | |
- =====

Scenario = What are the "Features on an E-Commerce Site"?

- Search Box
- Related Product
- Product Zoom
- Good Navigation
- Privacy Policy
- Good Graphics
- News & Events
- Live Chat
- Email a Friend Button
- Business Logo
- Contact Information
- Loyalty Program
- Storefront
- Customers & Orders
- Taxes & Locations
- Customer login & Registration
- =====
- Quality Images
- Newsletter Subscription
- Categories
- Good Payment Gateway
- Good Return Policy
- Delivery Information
- Reviews
- Product Demos
- Shopping Cart
- Deals, Offers, Free
- Responsible Design
- Catalogs & Products
- Pages & Blogs
- Reporting