

**Scenario** = Let's say – U are saying, I am working as “SAP Comm” developer for “Croma” 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** =

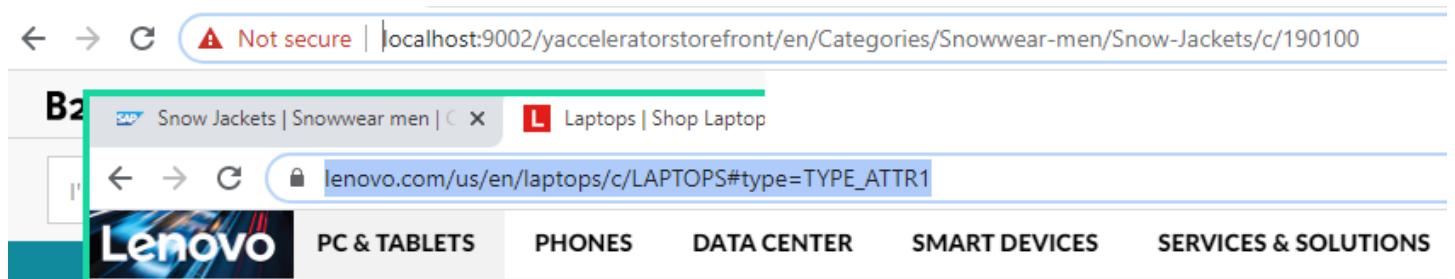
<https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100>

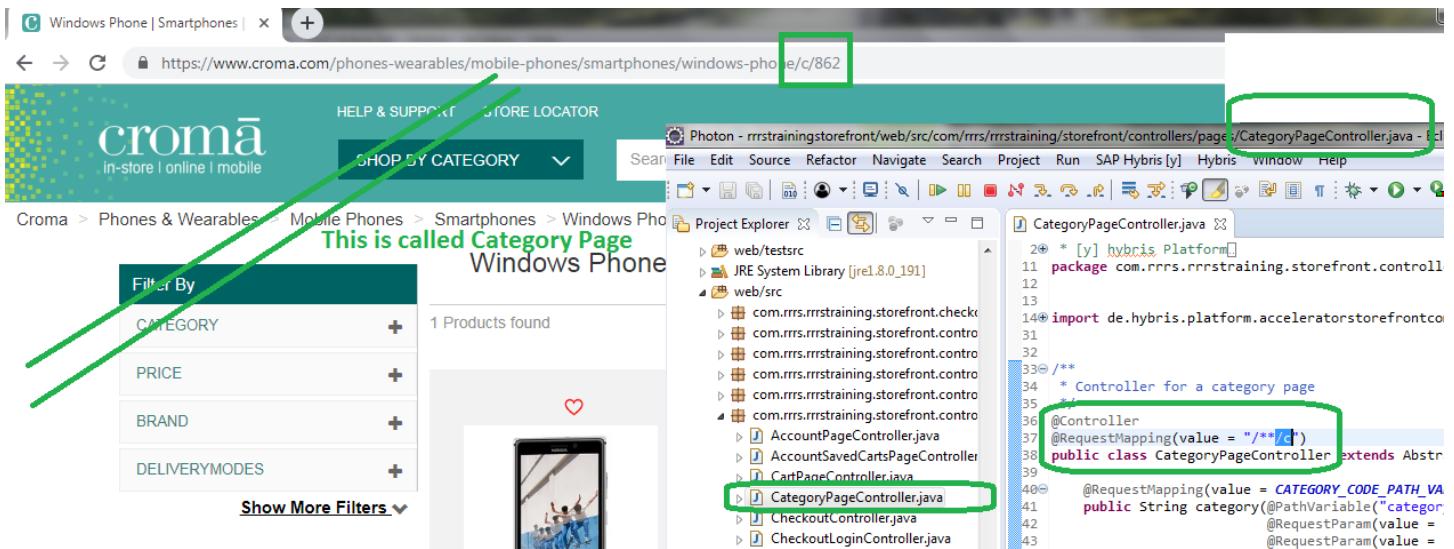
**Lenovo** =

[https://www.lenovo.com/us/en/laptops/c/LAPTOPS#type=TYPE\\_ATTR1](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 =**

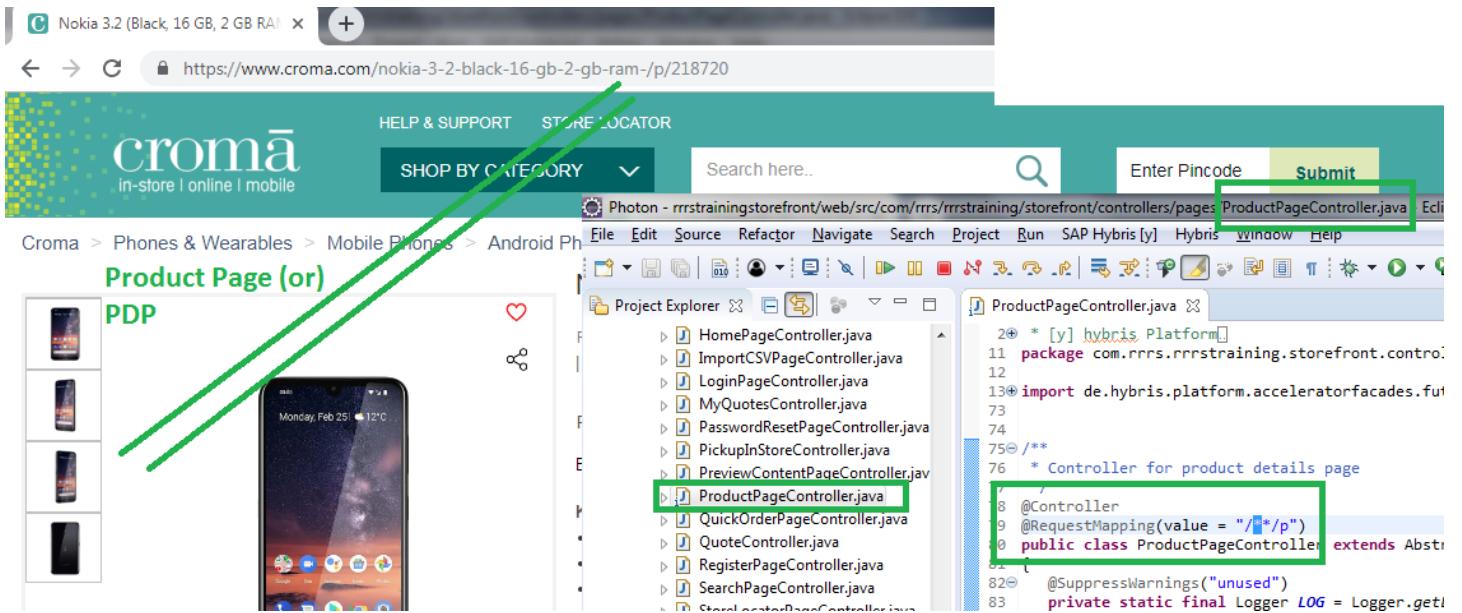
[https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Last-Mission-Jacket/\*\*p/300460184\*\*](https://localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Last-Mission-Jacket/p/300460184)

**Lenovo =**

[https://www.lenovo.com/us/en/laptops/thinkpad/thinkpad-x1/X1-Carbon-Gen-8-\*\*/p/22TP2X1X1C8\*\*](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\*\*](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:** -

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 bean configurations:

```
<alias name="defaultCategoryModelUrlResolver" alias="categoryModelUrlResolver"/>
<bean id="defaultCategoryModelUrlResolver"
      class="de.hybris.platform.commerceservices.url.impl.DefaultCategoryModelUrlResolver">
    <property name="threadContextService" ref="threadContextService"/>
    <property name="commerceCategoryService" ref="commerceCategoryService"/>
    <property name="baseSiteService" ref="baseSiteService"/>
    <property name="pattern" value="/{category-path}/c/{category-code}" />
</bean>

<alias name="defaultProductModelUrlResolver" alias="productModelUrlResolver"/>
<bean id="defaultProductModelUrlResolver"
      class="de.hybris.platform.commerceservices.url.impl.DefaultProductModelUrlResolver">
    <property name="threadContextService" ref="threadContextService"/>
    <property name="commerceCategoryService" ref="commerceCategoryService"/>
    <property name="baseSiteService" ref="baseSiteService"/>
    <property name="defaultPattern" value="/{category-path}/{product-name}/p/{product-code}" />
    <property name="productAndCategoryHelper" ref="productAndCategoryHelper"/>
</bean>
```

The screenshot shows a code editor with three tabs: `commerceservices-spring.xml`, `DefaultCategoryModelUrlResolver.java`, and `DefaultProductModelUrlResolver.java`. The `commerceservices-spring.xml` file includes the configuration from the previous screenshot. The Java files implement the logic for generating URLs based on the patterns defined in the XML.

```
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` (selected), and `CategoryPageController.java`. The selected tab shows the `ProductPageController` implementation, which handles requests for product details pages. The `CategoryPageController` tab shows the corresponding implementation for category pages.

```
/*
 * Controller for product details page
 */
@Controller
@RequestMapping(value = "/**/p")
public class ProductPageController extends AbstractCategoryPageController {
    @RequestMapping(value = CATEGORY_CODE_PATH_VARIABLE_PATTERN, method = RequestMethod.GET)
    public String category(@PathVariable("categoryCode") final String categoryCode) // NOSONAR
    {
        return "category";
    }
}
```

**Q = If URL does not have /p/p# & /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.xxx.js” format.**

**Example =**

acc.cart.js

acc.checkout.js

acc.cms.js

The screenshot shows the developer tools open in a browser window. The address bar indicates the site is not secure (localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Last-Mission-Jacket/p/300). The Sources tab is selected. The left sidebar shows the file structure, including a local host entry and several SAP Commerce-specific folders like '\_ui' and 'en/Categories/Snowwear-men'. The main pane displays a list of JavaScript files under the search term 'acc.c'. The listed files are:

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

Each file entry includes the URL and file size (e.g., SIZE L, £64.76 12).

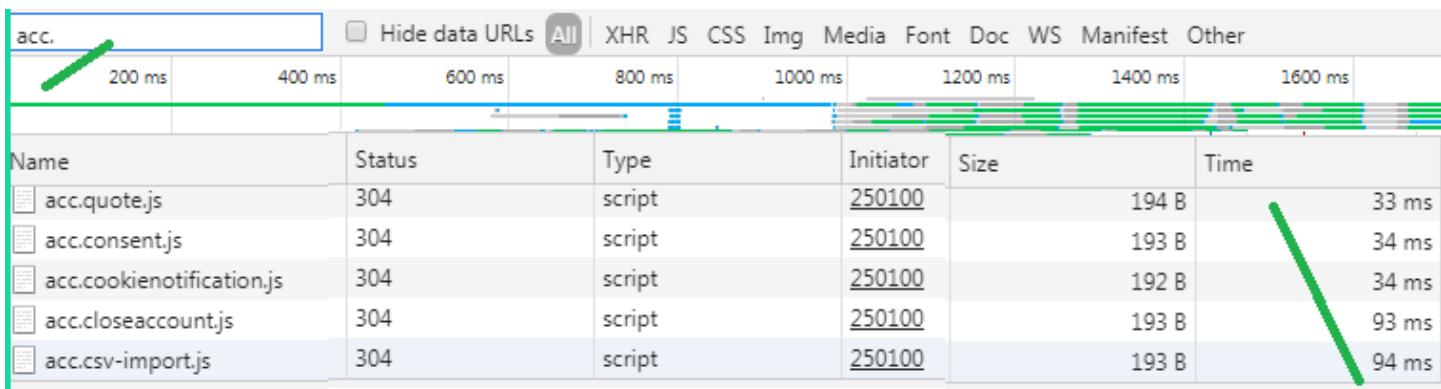
The screenshot shows the developer tools open in a browser window. The address bar shows the URL https://www.croma.com/lp-loyalty-privileges. The page header includes the Croma logo, help/support links, a store locator, a shop by category dropdown, and a search bar. A watermark 'Right Click & Inspect' is visible across the page. The Sources tab is selected. The left sidebar shows the file structure, including a local host entry and various third-party and Croma-specific files. The main pane displays a list of JavaScript files under the search term 'acc.cart'. The listed files 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",
    "bindMultiEntryRemoval",
    "bindMultiIdCartProduct",
    ["bindApplyVoucher", $("#js-voucher-apply-btn").length != 0],
    ["bindToReleaseVoucher", $("#js-applied-vouchers").length != 0]
  ]
};
```

## Quick and Fast.

Written and hosted by Andrew Chilton (@andychilton) since 2012.

**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",!=$("#js-voucher-apply-btn").length],
["bindToReleaseVoucher",!=$("#js-applied-vouchers").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():

```

**Note = “SAP Comm” comes with minification feature.**

**Q = How to use “SAP Comm” minification?**

**B2C Accelerator**

I'm looking for  🔍

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

Elements Console Sources Network Performance Memory Application Security Lighthouse

Filesystem ☰

- Page
- Filesystem
- localhost:9002
- acc
- acc.cms.js
- acc.cart.js
- acc.tabs.js
- acc.order.js
- acc.track.js
- acc.quote.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.cms.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.cart.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.tabs.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.order.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.track.js

localhost:9002/yacceleratorstorefront/\_ui/responsive/common/js/acc.quote.js

(x) hybris administration console

You're Administrator logout

Platform Monitoring Maintenance Console

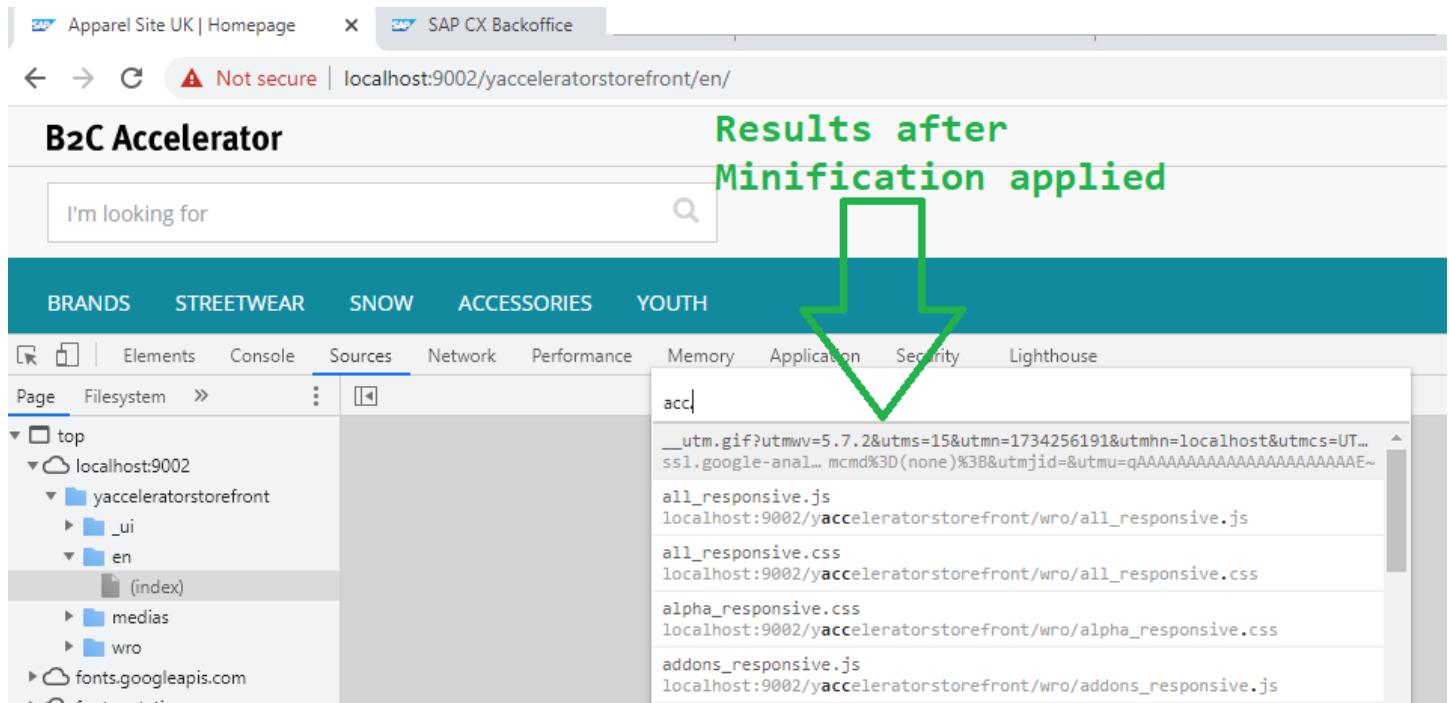
Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Classpath Analyzer

New key... New value... add

storefront.wro4j.enabled true ✓

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

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



**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="${fn:escapeXml(commonResourcePath)}"/>
11 <:choose>
12     <:when test="$wro4jEnabled">
13         <script src="${fn:escapeXml(contextPath)}/wro/all_responsive.js"></script>
14         <script src="${fn:escapeXml(contextPath)}/wro/addons_responsive.js"></script>
15     <:when>
16         <!-- jquery -->
17         <script src="${commonResourcePathHtml}/js/jquery-3.5.1.min.js"></script>
18
19         <!-- plugins -->
20         <script src="${commonResourcePathHtml}/js/acc.address.js"></script>
21         <script src="${commonResourcePathHtml}/js/acc.autocomplete.js"></script>
22         <script src="${commonResourcePathHtml}/js/acc.carousel.js"></script>
23         <script src="${commonResourcePathHtml}/js/acc.cart.js"></script>
24

```

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 <:choose>
9     <:when test="$wro4jEnabled">
10         <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
11             <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
12                 <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
13                     </:when>
14         <:otherwise>
15             <!-- Theme CSS files -->
16             <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeXml(
17                 <!-- AddOn Common CSS files -->
18                 <:forEach items="${addOnCommonCssPaths}" var="addOnCommonCss">
19                     <link rel="stylesheet" type="text/css" media="all" href="${fn:escapeX
20                 </:forEach>
21             <:otherwise>
22         </:choose>
23

```

Project Explorer

Gruntfile.js

```

10
11
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```

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

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

The screenshot shows a web browser window for the B2C Accelerator website. The URL is localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-women/Snow-Jackets-women/Tabloid-Jacket-Women. The page has a teal header with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH. Below the header is a breadcrumb trail: HOME / CATEGORIES / SNOWWEAR WOMEN / SNOW JACKETS WOMEN / TABLOID JACKET WOMEN. The main content area has a toolbar with tabs: Elements, Console, Sources, Network, Performance, Memory, Application, Security, and Lighthouse. The Lighthouse tab is highlighted with a green box. Below the toolbar is a large button with a lighthouse icon and the text "Generate report". To the right is a sidebar with sections for Categories (Performance, Progressive Web App, Best practices, Accessibility, SEO) and Device (Mobile, Desktop). A green arrow points from the "Generate report" button towards the Lighthouse tab.

**Results - Before minification applied: -**

The screenshot shows the product page for Tabloid Jacket Women academy M with ID 300412384. The page includes a navigation bar with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH, and a breadcrumb trail: HOME / CATEGORIES / SNOWWEAR WOMEN / SNOW JACKETS WOMEN / TABLOID JACKET WOMEN. Below the product title is a section titled "Product review summary". The Lighthouse report results are displayed at the bottom, showing scores for various categories: Performance (41), Accessibility (72), Best Practices (100), SEO (70), and Progressive Web App (?). A large green arrow points from the "Generate report" button in the previous screenshot to the Performance score in this one.

Category	Score
Performance	41
Accessibility	72
Best Practices	100
SEO	70
Progressive Web App	?

---

Contact Us = ChennaReddyTraining@RRRS.CO.IN

Now enable minification =

← → C A Not secure | localhost:9002/platform/config

## 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

apply all reset all Show unsaved only:  OFF

Show 10 entries Search: wro

Key	Value
New key...	<b>Apply Minification</b>
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

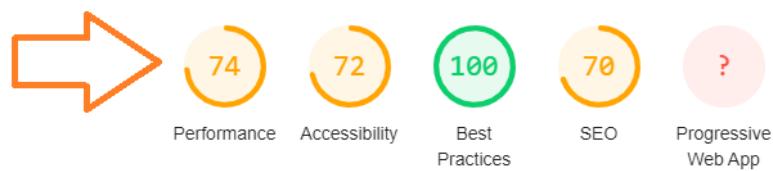
Tabloid Jacket Women academy M | ID 300412384

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



Elements Console Sources Network Performance Memory Application Security Lighthouse

10:45:32 PM - localhost:9002

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

Performance

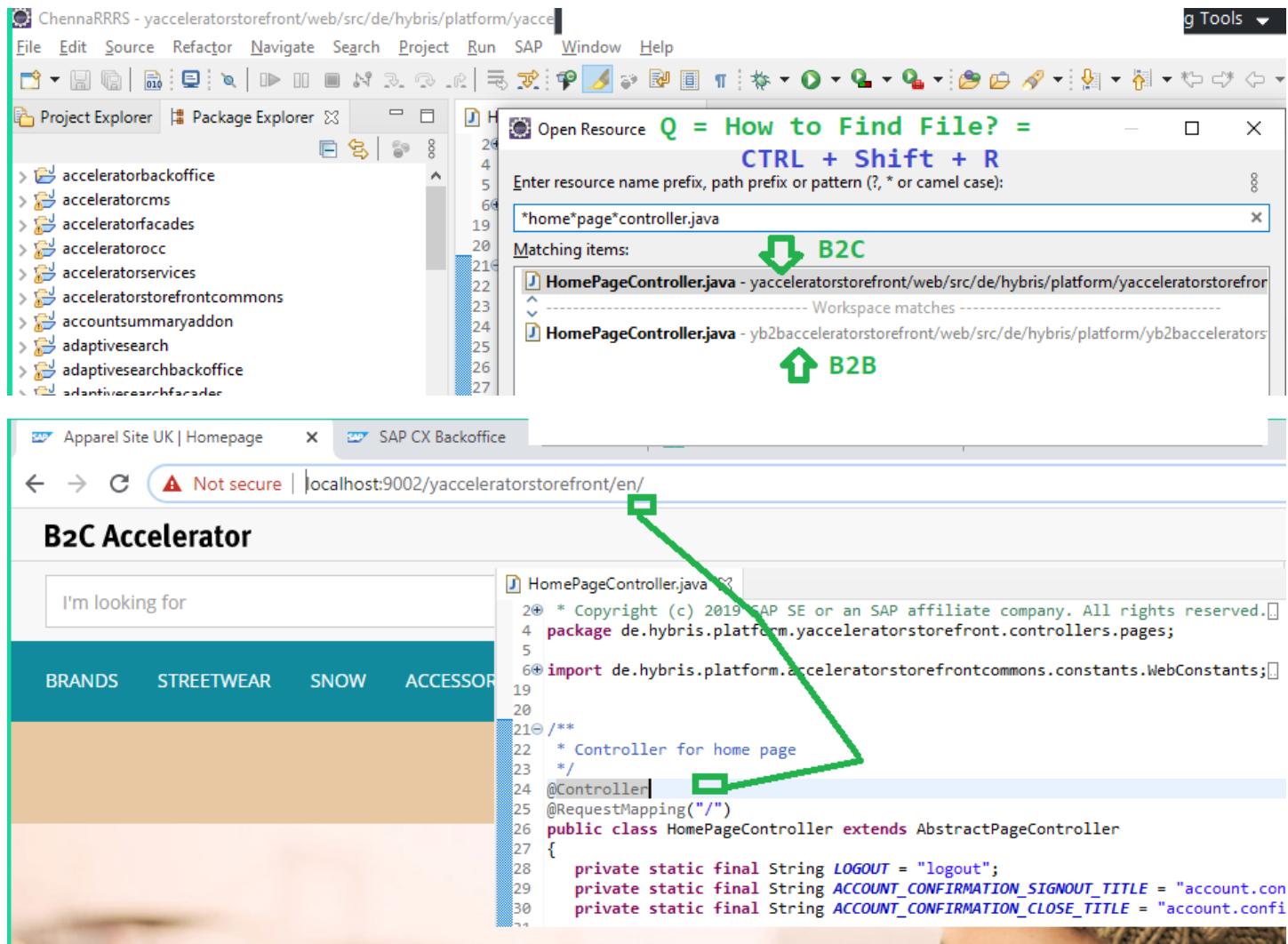
Metrics	Value
First Contentful Paint	1.2 s
Speed Index	2.1 s
Largest Contentful Paint	1.2 s
Time to Interactive	2.1 s
Total Blocking Time	740 ms
Cumulative Layout Shift	0.007

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## Scenario = Website & Pages

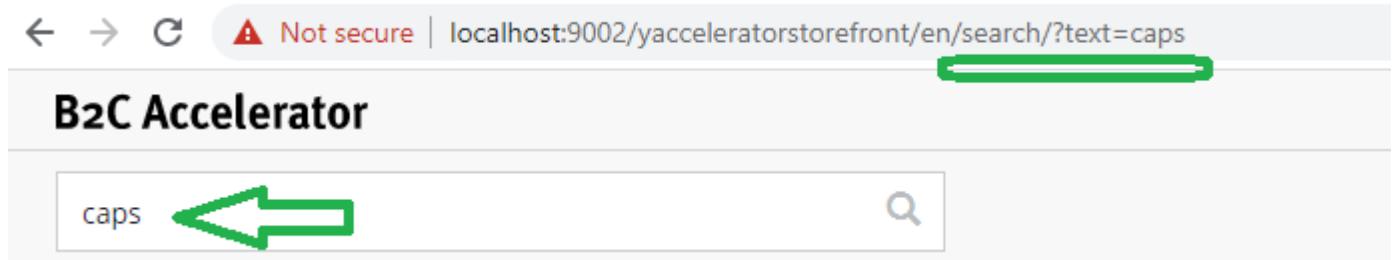
1 = Homepage -- HomePageController.java

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



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

SearchPageController.java



The screenshot shows a storefront search results page for the term "caps". The search bar at the top contains "caps". Below it, a navigation bar includes links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The main content area displays the message "You searched for 'caps'" and indicates "19 Products found". A "Shop by Stores" section with a "FIND STORES" button is also present. Three product images of caps are shown.

```

2④ * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
4 package de.hybris.platform.yacceleratorstorefront.controllers.pages;
5
6④ import de.hybris.platform.acceleratorcms.model.components.SearchBoxComponentModel;
7
8④ @Controller
9④ @RequestMapping("/search")
10 public class SearchPageController extends AbstractSearchPageController
11 {
12     private static final String SEARCH_META_DESCRIPTION_ON = "search.meta.description.on";
13     private static final String SEARCH_META_DESCRIPTION_RESULTS = "search.meta.description.results";
14     @SuppressWarnings("unused")
15     private static final Logger LOG = Logger.getLogger(SearchPageController.class);
16 }

```

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

CategoryPageController.java

URL =

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

The screenshot shows a storefront category page for "Belts". The search bar at the top contains "I'm looking for". Below it, a navigation bar includes links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The main content area displays the message "8 Products found". A "Shop by Stores" section with a "FIND STORES" button is also present. Three product images of belts are shown.

```

2④ * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
4 package de.hybris.platform.yacceleratorstorefront.controllers.pages;
5
6④ import de.hybris.platform.acceleratorstorefrontcommons.controllers.pages.AbstractCategoryPageController;
7
8④ /**
9④ * Controller for a category page
10 */
11④ @Controller
12④ @RequestMapping(value = "/**/c")
13 public class CategoryPageController extends AbstractCategoryPageController {
14
15     private static final String CATEGORY_META_DESCRIPTION = "category.meta.description";
16     private static final String CATEGORY_META_IMAGE = "category.meta.image";
17     private static final String CATEGORY_META_NAME = "category.meta.name";
18     private static final String CATEGORY_META_TYPE = "category.meta.type";
19     private static final String CATEGORY_META_URL = "category.meta.url";
20     private static final String CATEGORY_META_DESCRIPTION_RESULTS = "category.meta.description.results";
21     private static final String CATEGORY_META_DESCRIPTION_ON = "category.meta.description.on";
22     private static final String CATEGORY_META_IMAGE_URL = "category.meta.image.url";
23     private static final String CATEGORY_META_NAME_ON = "category.meta.name.on";
24     private static final String CATEGORY_META_TYPE_ON = "category.meta.type.on";
25     private static final String CATEGORY_META_URL_ON = "category.meta.url.on";
26     private static final String CATEGORY_META_DESCRIPTION_ON_RESULTS = "category.meta.description.on.results";
27     private static final String CATEGORY_META_TYPE_ON_RESULTS = "category.meta.type.on.results";
28     private static final String CATEGORY_META_NAME_ON_RESULTS = "category.meta.name.on.results";
29     private static final String CATEGORY_META_IMAGE_ON_RESULTS = "category.meta.image.on.results";
30     private static final String CATEGORY_META_DESCRIPTION_ON_ON = "category.meta.description.on.on";
31     private static final String CATEGORY_META_TYPE_ON_ON = "category.meta.type.on.on";
32     private static final String CATEGORY_META_NAME_ON_ON = "category.meta.name.on.on";
33     private static final String CATEGORY_META_IMAGE_ON_ON = "category.meta.image.on.on";
34 }

```

## 4 = Login Page

### LoginPageController.java

The screenshot shows the SAP CX Backoffice interface. On the left, a code editor displays `LoginPageController.java` with annotations for a login controller. On the right, the storefront's login page is shown, featuring fields for 'Create an Account' and 'Returning Customer' with email and password inputs.

```
30 * Login Controller. Handles login and register for the account flow.
31 */
32 @Controller
33 @RequestMapping(value = "/login")
34 public class LoginPageController extends AbstractLoginPageController
35 {
36     private HttpSessionRequestCache httpSessionRequestCache;
37
38     @Override
39     protected String getView()
40     {
41         return "login";
42     }
43 }
```

## 5 = Product Details Page [PDP]

### ProductPageController.java

The screenshot shows the SAP CX Backoffice interface. On the left, a code editor displays `ProductPageController.java` for a product details page. On the right, the storefront's product details page for a 'Faded Droid Cap white Uni' is shown, displaying the product image, price (£11.30), and a summary.

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

## 6 = Cart Page

### CartPageController.java

The screenshot shows the B2C Accelerator Cart Page at [localhost:9002/yacceleratorstorefront/en/cart](https://localhost:9002/yacceleratorstorefront/en/cart). The page includes a search bar, navigation links (BRANDS, STREETWEAR, SNOW, ACCESSORIES), and a breadcrumb trail (HOME / BAG). A sidebar displays a shopping cart summary with two items: a Multilogo Good Looking SS Women heather grey S and a Ginga Cap white SM. Below the cart summary are 'CONTINUE SHOPPING' and 'CHECK OUT' buttons. A green arrow points from the top of the page down to the CartPageController.java code in the code editor.

```
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 }
```

EXPORT CSV

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

## 7 = Checkout Page

The screenshot shows the B2C Accelerator Checkout Page at <https://localhost:9002/yacceleratorstorefront/en/checkout/multi/delivery-address/add>. The page features a 'Secure Checkout' section with a lock icon. It displays a summary of 2 items: a Multilogo Good Looking SS Women heather grey S and a Ginga Cap white SM. A green arrow points from the top of the page down to the CheckoutController.java code in the code editor.

```
CheckoutController.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.flow.impl.SessionOverrideCheckoutStepController;
5
6 /**
7  * CheckoutController
8 */
9 @Controller
10 @RequestMapping(value = "/checkout")
11 public class CheckoutController extends AbstractCheckoutController
12 {
```

Secure Checkout

1. Shipment/Pick Up Location

SHIPMENT - 2 ITEM(S)

Multilogo Good Looking SS Women heather grey S	Qty: 1
Ginga Cap white SM	Qty: 1

Shipping Address

Items to be delivered

Multilogo Good Looking SS Women heather grey S	Item Price: £17.78
	QTY: 1
	Style: heather grey
	Size: S
Ginga Cap white SM	Item Price: £28.31
	QTY: 1

## B2C Accelerator

I'm looking for



BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CHECKOUT / SHIPMENT/PICK UP LOCATION

### Secure Checkout

1. Shipment/Pick Up Location

2. Shipping Method

3. Payment & Billing Address

4. Final Review

These are called Checkout Steps.  
Note = We can also create new Steps if required.

### Order Summary

Items to be delivered



Incision Leather Belt shadow grey SM  
Item Price: £40.46  
QTY: 1  
Style: shadow grey  
Size: SM

Subtotal:

## 8 = Order Page

## 9 = My Account Page

## B2C Accelerator

WELCOME CHENNAI

MY ACCOUNT

SIGN OUT

Personal Details	Email Address	Payment Details
Password	Order History	Address Book
Saved Carts	Consent Management	Close Account
Returns History	Support Tickets	

I'm looking for



(2 ITEMS) £46.09

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

The screenshot shows a web browser with the URL [localhost:9002/yacceleratorstorefront/en/my-account/address-book](https://localhost:9002/yacceleratorstorefront/en/my-account/address-book). The page title is "B2C Accelerator". The navigation bar includes links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. Below the navigation is a breadcrumb trail: HOME / ADDRESS BOOK. The main content area is titled "Address Book" and displays a single address entry for "MR. CHENNA RRRS (DEFAULT)". The entry details are: Name: Dallas, Address: United Kingdom 12341234, with edit and delete icons. A green arrow points from the browser's URL bar to a code editor window on the right, showing the Java code for `AccountPageController.java`. The code includes imports for `de.hybris.platform.yacceleratorstorefront.controllers` and `de.hybris.platform.acceleratorfacades.ordergridform`, and annotations like `@Controller` and `@RequestMapping("/my-account")`.

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

## Note =

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?

**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](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

## **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 / ...

The image shows two adjacent browser tabs side-by-side. Both tabs have the URL "localhost:9002/yacceleratorstorefront/en/cart". The left tab is titled "Apparel UK - English" and the right tab is titled "Apparel DE - German". This visual comparison highlights how the page title can differ based on the user's language preference or browser settings.

## **Step 1 = How to find the buttons code**

The screenshot illustrates a workflow for finding UI code. In the browser, a 'CONTINUE SHOPPING' button is selected and its HTML code is copied. This code is then pasted into the search input field of the SAP IDE's search dialog. The search results list several matches, including 'cartDisplay.jsp' and 'checkoutDisplay.jsp'. A green arrow highlights the copied code in the browser, another green arrow highlights the search input field in the IDE, and a third green arrow highlights the search results in the IDE.

Contact Us = ChennaReddyTraining@RRRS.CO.IN

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

The JSP code snippet shows a button with a red box around it labeled "Delete This Code". The browser screenshot shows the same page with the button removed, resulting in a "Can't find the button now -->" message.

```
66<button class="btn btn-default btn-block btn--create-quote js-create-quote-button" data-
67    <spring:theme code="quote.create"/>
68</button>
69</div>
70</c:if>
71
```

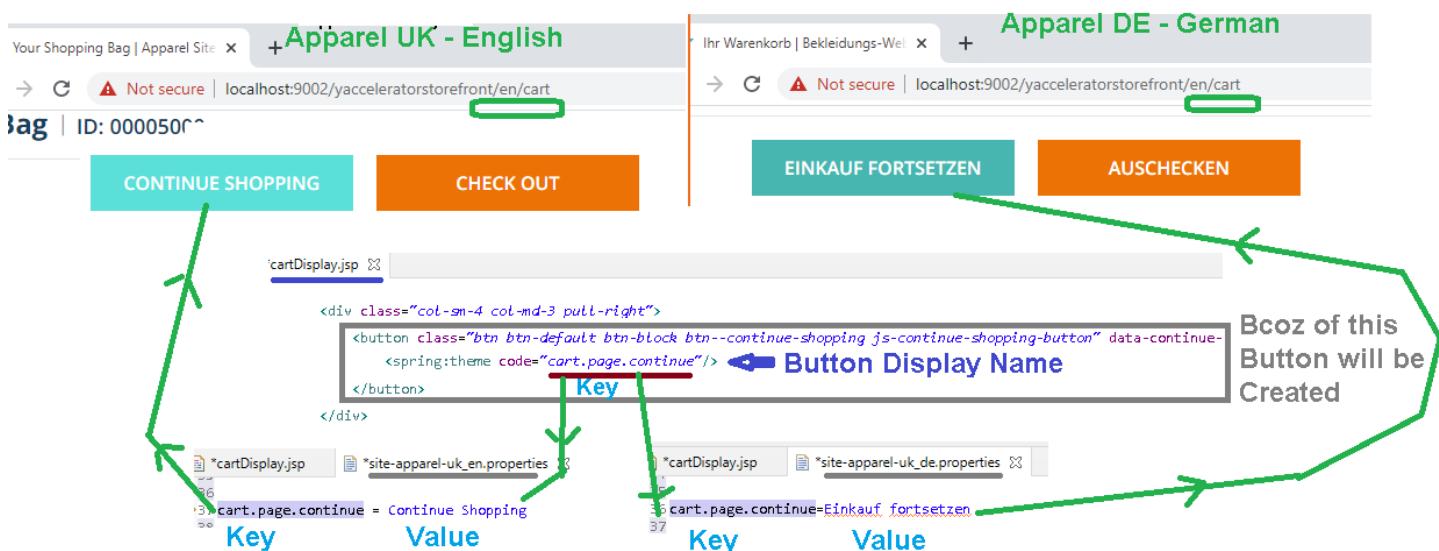
```
72<div class="col-sm-4 col-md-3 pull-right">
73    <button class="btn btn-default btn-block btn--continue-shopping js-continue-shopping-button" data-
74        <spring:theme code="cart.page.continue"/>
75    </button>
76</div>
```

Your Shopping Bag | Apparel Site × +

← → C Not secure | localhost:9002/yacceleratorstorefront/en/cart

Can't find the button now --> CHECK OUT

## Step 3 = “Continue Shopping” button translation logic

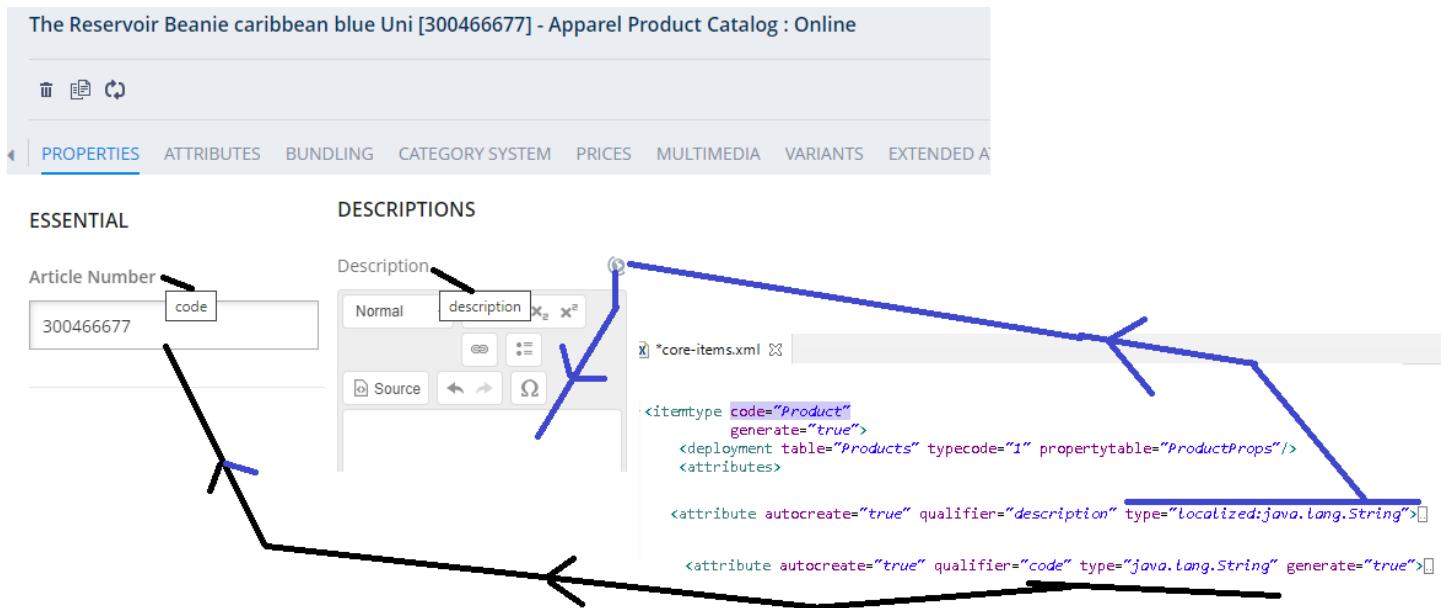


The JSP code snippet shows a button with a red box around it and a red arrow pointing to the text "Chenna RRRS". A callout notes: "Don't hard code the value like this."

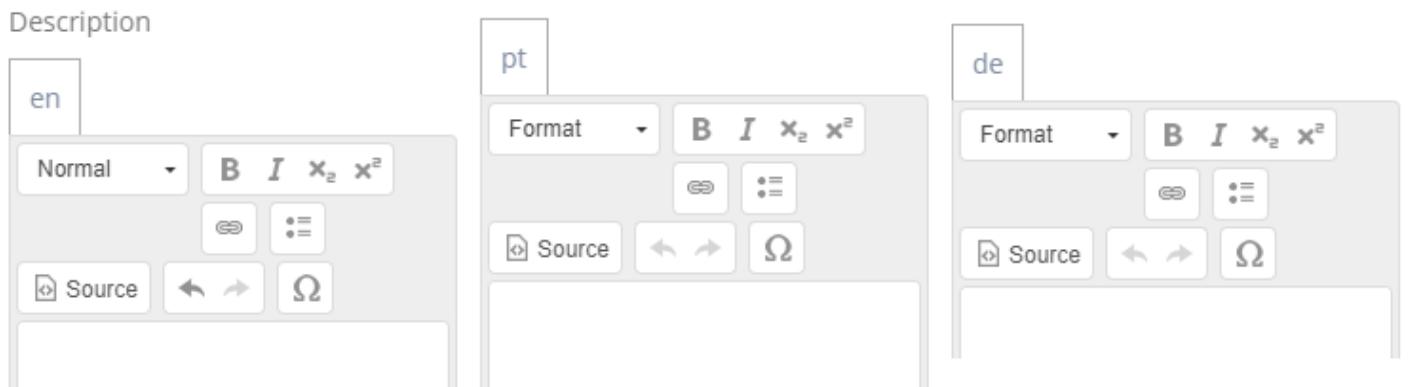
```
71
72<div class="col-sm-4 col-md-3 pull-right">
73    <button class="btn btn-default btn-block btn--continue-shopping" data-
        Continue Shopping - Chenna RRRS
    </button>
74</div>
```

Don't hard code the value like this.

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



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



Product ID	Product Name	Product Details	Price
300613490	SEIZURE SATCHEL		<b>34.79</b>



**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**

```

<itemtype code="Product"
          extends="GenericItem"
          jaloClass="de.hybris.platform.jalo.product.Product"
          autocreate="true"
          generate="true">
    <deployment table="Products" typecode="1" propertytable="ProductProps"/>
    <attributes>
        <attribute autocreate="true" qualifier="description" type="localized:java.lang.String">
            <modifiers read="true" write="true" search="true" optional="true"/>
            <persistence type="property">
                <columnType database="oracle">CLOB</columnType>
                <value></value>
            </persistence>
        </attribute>
    </attributes>

```

The screenshot shows the Hybris Catalog interface. On the left, there's a sidebar with navigation links: Catalog, Catalogs, Catalog Versions, Categories, Products (highlighted with a green arrow), Product Variant Types, Units, Keywords, and Classification Systems. Below that is a section foraved queries with a note 'No queries'. The main area is titled 'Seizure Satchel black Uni [300613490] - Apparel Product Catalog : Online'. It has tabs for Properties, Attributes, Category System, Prices, Multimedia, Variants, and Extended Attributes. Under 'DESCRIPTIONS', there are three language tabs: en (Normal, Description: 'This is Office Bag available in office'), de (Format, Description: 'Dies ist Office Bag im Büro erhältlich'), and ko (Format, Description: empty). A green arrow points from the 'en' tab to its description.

## Results =

Two browser screenshots are shown. The left one is for 'Seizure Satchel black Uni | Bags' at localhost:9002/yacceleratorstorefront/en/Categories/Bag. It shows a product image and a description box containing 'This is Office Bag available in office.' The right one is for 'Seizure Satchel black Uni | Tasche' at https://localhost:9002/yacceleratorstorefront/de/Kategorie/Tasche. It shows a product image and a description box containing 'Dies ist Office Bag im Büro erhältlich.' A green arrow points from the English description to the German one.

On the left, a code editor shows a snippet of core-items.xml. Lines 3401-3417 are highlighted in blue. Lines 3409 and 3417 contain attributes with 'thefield' values. On the right, the Hybris Catalog interface shows the 'Article Number' field under the 'ESSENTIAL' tab. It has a value '300613490' and a 'name' column with entries for en ('Seizure Satchel black'), es\_CO (empty), in (empty), and pt (empty). A red arrow points from the 'thefield' values in the XML to the 'name' column in the catalog interface.

**Q = Explain “Internalization (or) with 3rd party tools integration”?**

In real time, companies uses, 3rd party tools for getting locale specific content.  
Example: - Global Link Connector

The screenshot shows the SAP Commerce interface for managing product descriptions. On the left, there's a navigation sidebar with options like Home, Inbox, System, Catalog, Catalogs, Catalog Versions, Categories, Products, and Saved Queries. The main area is titled "6 Inch Nylon Cable Ties 100-Pack [1128763] - Powertools Product Catalog : Staged". It displays three language versions: English (en), Portuguese (pt), and French (fr). Each language has its own rich-text editor with bold, italic, and link buttons. Below each editor is a text area containing a product description. A red arrow points from the explanatory text at the top right towards the language-specific text areas.

**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 3<sup>rd</sup> 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:\rrrsssoftware\hybris\bin\custom

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

C:\rrrsssoftware\hybris\config\localextensions.xml

Local Disk (E:) > rrrssoftware > hybris > config >

```

<hybrisconfig xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'>
<extensions>
<extension name="globallink"/>
<extension name="globalcmscockpit"/>
<extension name="globalbackoffice"/>

```

## 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 → (arrow)
  - 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:

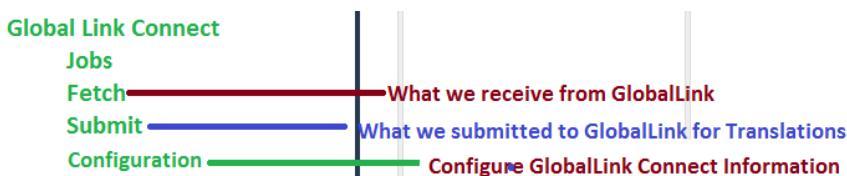
Username:

Password:

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] & provide us back with "FR, DE, JA" language values [descriptions / summary [...]]

Article Number	Identifier	Status	Catalog version
300441142	Cap	● ✓ ○	Apparel Product Catalog : ...
29531	Snowboard Ski 1	● ✓ ○	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].

**config\local.properties**

```
E:\rrrssoftware\hybris\config\local.properties
File Edit Search View Encoding Language Settings
local.properties
1 #Generated by hybris insta
2 #Wed Apr 07 13:34:28 EDT 2
db.url=jdbc:oracle:thin:@chennarrs:1521:sid123
```

**platform\project.properties**

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

```
E:\rrrssoftware\hybris\bin\platform\project.properties -
File Edit Search View Encoding Language Settings
project.properties
1209 db.url=jdbc:hsqldb:file:${HYBRIS_DATA_DIR}/hsqldb/mydb
```

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

```
project.properties
1209 db.url=jdbc:oracle:thin:@chennarrs:1521:sid123
```

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  
HSQ 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 failes.**

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".**

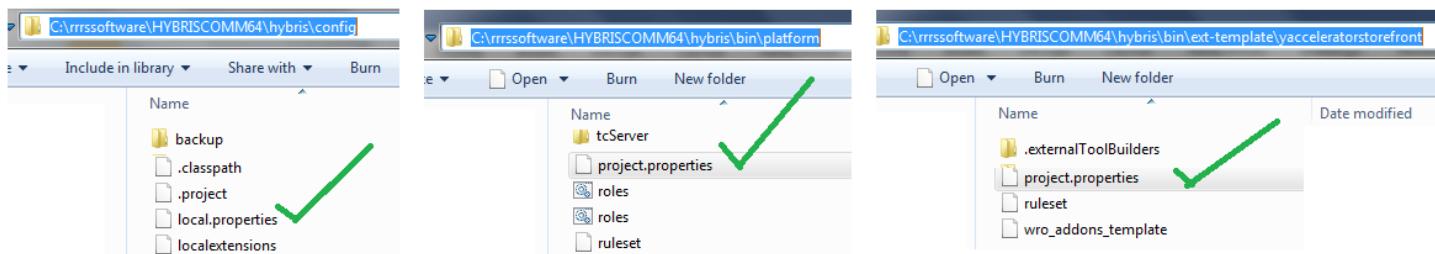
Example =

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

OS (C:) > rrrsoftware > hybris > config
library Share with Burn New folder
Name

1st

local.properties  
backup

<HYBRIS\_BIN\_DIR>/<EXTENSION\_DIR>/project.properties

C:\rrrsoftware\hybris\bin\modules\b2b-accelerator\b2bacceleratorfacades
Burn New folder
Name Date modified Type

2nd

.externalToolBuilders  
project.properties

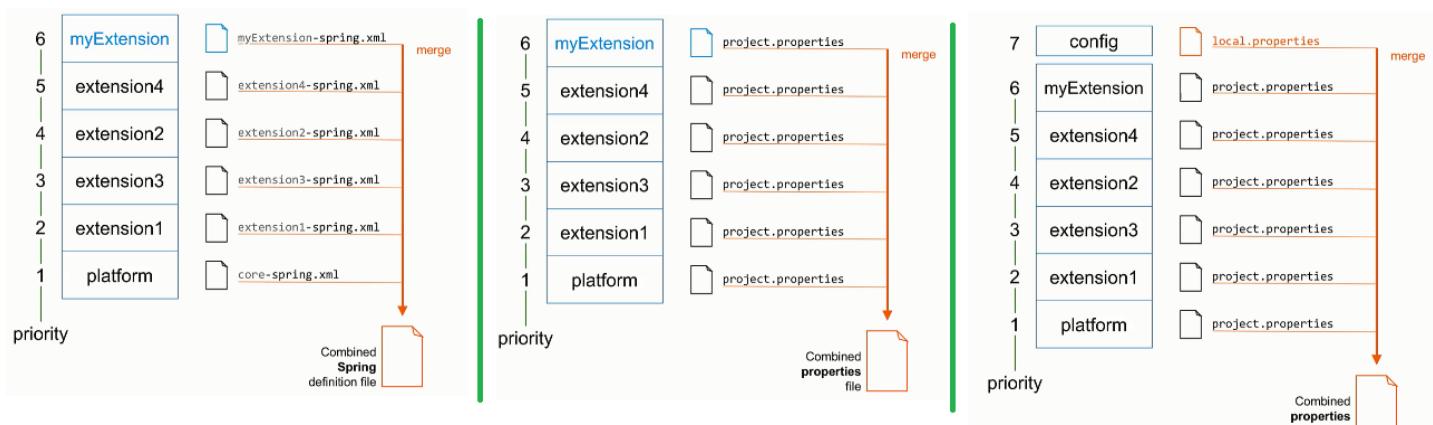
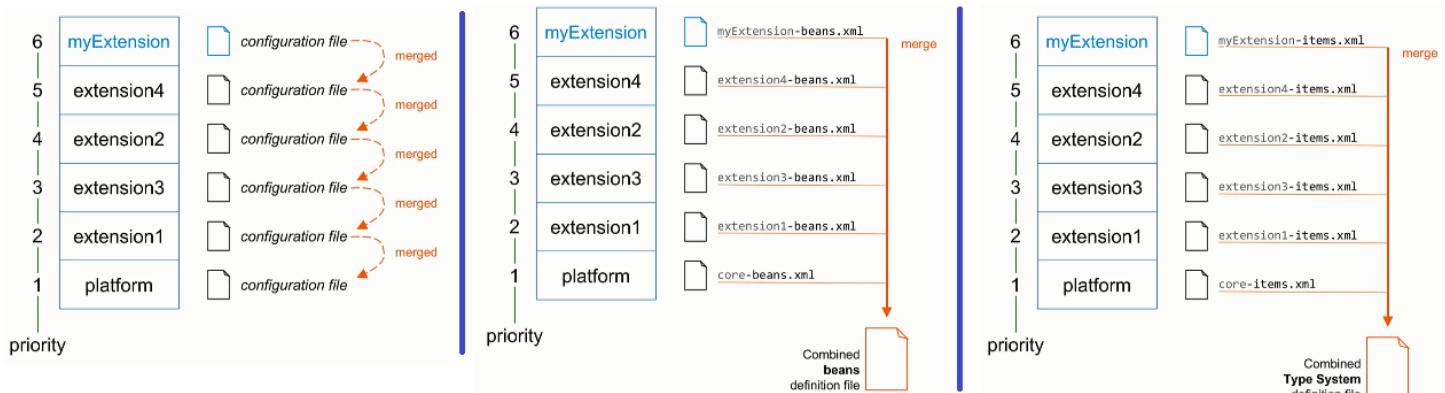
<HYBRIS\_BIN\_DIR>/platform/project.properties

OS (C:) > rrrsoftware > hybris > bin > platform
library Share with Burn New folder
Name Date modified

3rd

.externalToolBuilders  
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)



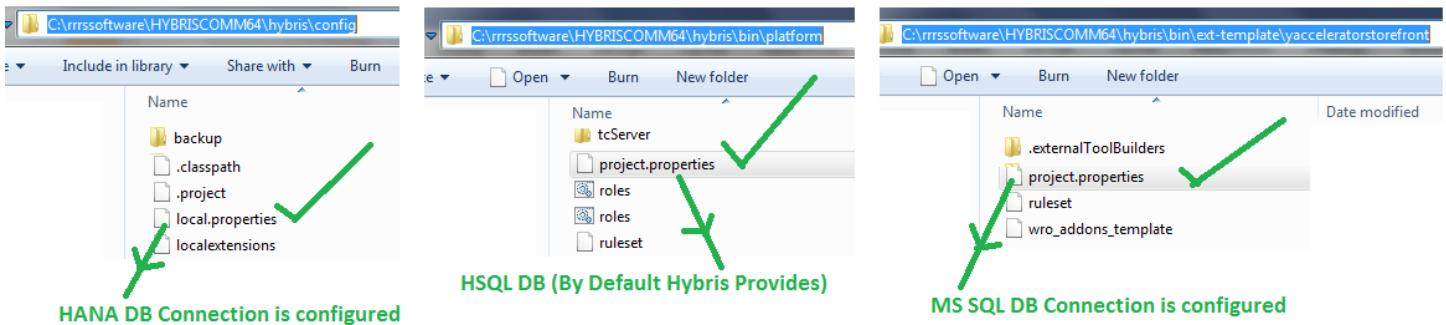
**Note =** In “SAP Comm” ... We have properties files in different places.

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. At the top, there is a navigation bar with tabs for Platform, Monitoring, Maintenance, and Console. Below that is a sub-navigation bar with tabs for Tenants, Configuration (which is selected), System, Logging, Extensions, Initialization, Update, SQL Scripts, License, Support, PK Analyzer, and Classpath Analyzer. The main area is a table titled 'Configuration' with columns for Key and Value. The table contains several entries, with a red annotation pointing to the first few: "All these are from config\local.properties (or) ext\project.properties (or) platform\project.properties". The table also has buttons for apply all and reset all, and a search bar. At the bottom, there is a footer with links for Contact Us, SAP, and RRRS COIN.

## Scenario =

**Req1** = Display search results 5 products per page?

The screenshot shows a web browser with the URL [localhost:9002/yacceleratorstorefront/en/search/?text=caps](http://localhost:9002/yacceleratorstorefront/en/search/?text=caps). The page title is "B2C Accelerator". The search bar contains "caps". The top navigation menu includes "WELCOME CHENNAI", "MY ACCOUNT", and "SIGN OUT". Below the menu, there are categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "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 text is "All Products are coming in same page. Req = Display search results 5 Products per Page". Below the message, four caps are displayed.

**Req2** = Quick order form layout for 5 product?

The screenshot shows a web browser with the URL [localhost:9002/yacceleratorstorefront/en/quickOrder](http://localhost:9002/yacceleratorstorefront/en/quickOrder). The page title is "B2C Accelerator". The search bar contains "I'm looking for". The top navigation menu includes "WELCOME CHENNAI", "MY ACCOUNT", and "SIGN OUT". Below the menu, there are categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "HOME / QUICK ORDER". On the right, there are buttons for "QUICK ORDER" (highlighted with a green box) and "IMPORT SAVED CART". The main content area is titled "Quick Order" and shows a table with three rows. Each row has fields for "PRODUCT", "PRICE", "QTY", and "TOTAL". Each row ends with a red "X" button. A green vertical rectangle highlights the first row. A red arrow points from the text "Quick Order Form - Layout is given by default for 3 Products." to the first row. Red text below it says "Req = Your company requirement is, they want layout for 5 products?".

**Req3** = Order Number

Croma – Order No = 15 Digits

Reliance Digital – Order No = 12 Digits

Decathlon – Order No = 18 Digits

For Req1, Req2, Req3, and .... ==

Can we ask customer to write the code? (or)

“SAP Comm” can give some configuration, so that customer 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 navigation, there are buttons for apply all and reset all, and a search bar for pagesize. The main area displays configuration entries with columns for Key and Value. A specific entry for 'storefront.search.pageSize.Desktop' has its value changed from 25 to 5, which is circled in green.

**Results – after above change?**

The screenshot shows the SAP CX Backoffice storefront search results for 'caps'. The search bar at the top shows 'Search caps | Apparel Site UK'. The results page displays 19 products found, sorted by relevance, with 5 products per page. The page navigation buttons (1, 2, 3, 4) are circled in green.

## Req2 – Solution =

SAP CX Backoffice | 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: quick

Key	Value
New key...	<input type="text"/> New value... <a href="#">add</a>
media.customextension.video.quicktime	<input type="text"/> mov <a href="#">remove</a> <a href="#">check</a>
yacceleratorstorefront.quick.order.rows.max	<input type="text"/> 25 <a href="#">remove</a> <a href="#">check</a>
yacceleratorstorefront.quick.order.rows.min	<input type="text"/> 5 <a href="#">remove</a> <a href="#">check</a>
yb2bacceleratorstorefront.quick.order.rows.max	<input type="text"/> 25 <a href="#">remove</a> <a href="#">check</a>
yb2bacceleratorstorefront.quick.order.rows.min	<input type="text"/> 3 <a href="#">remove</a> <a href="#">check</a>

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 <input type="text"/>	<a href="#">X</a>		
Enter SKU <input type="text"/>	<a href="#">X</a>		
Enter SKU <input type="text"/>	<a href="#">X</a>		
Enter SKU <input type="text"/>	<a href="#">X</a>		
Enter SKU <input type="text"/>	<a href="#">X</a>		

**Results**

Contact Us = ChennaReddyTraining@RRRS.CO.IN

## Req3 – Solution =

SAP CX Backoffice - Platform Configuration Properties

Configuration Properties

Search: order.

Key	Value
abstractorder.taxFreeEntrySupport	false
audit.order.enabled	true
audit.saporder.enabled	true
b2bocc.B2BOrdersController.placeOrder.priority	99
b2bpunchoutaddon.mapping.order.request	/punchout/cxml/order
commerceservices.additional.order.status.filter	AND {parent} IS NULL

apply all reset all

hybris administration console

You're Administrator logout

Platform Configuration Properties

Search: cms.

Key	Value
acceleratorcms.application-context	acceleratorcms-spring.xml
acceleratorcms.global-context	acceleratorcms-cache-spring.xml
cms.cache.enabled	false
cms.cache.use.default.fallback	false

apply all reset all

## 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=3
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

Configuration Properties

apply all reset all

Show 10 entries Search: quick

Key	Value
chenna.rrrs	1000 add

Contact Us = ChennaReddyTraining@RRRS.CO.IN

# Scenario = Finding / Writing “Configuration Code” - Example

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / QUICK ORDER

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

QUICK ORDER  IMPORT SAVED CART

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 <input type="text"/>		<input type="button"/> X	
Enter SKU <input type="text"/>		<input type="button"/> X	
Enter SKU <input type="text"/>		<input type="button"/> X	

## Step 1 = Create the configuration property

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=3
278 yacceleratorstorefront.quick.order.rows.max=25
279
```

## Step 2 = Read the configuration property value in the code

ChennaRRRS - yacceleratorstorefront/web/src/de/hybris/platform/yacc

File Edit Source Refactor Navigate Search Project Run SAP wwwww

Project Explorer Package Explorer

\*QuickOrderPageController.java

```
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         model.addAttribute("quickOrderMinRows", Integer.valueOf(Config.getInt("yacceleratorstorefront.quick.order.rows.min", 3)));
52     }
53
54
55
56
57
58
59
60
61
62
63
64
65
66
```

quickOrderMinRows = 3

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(=====

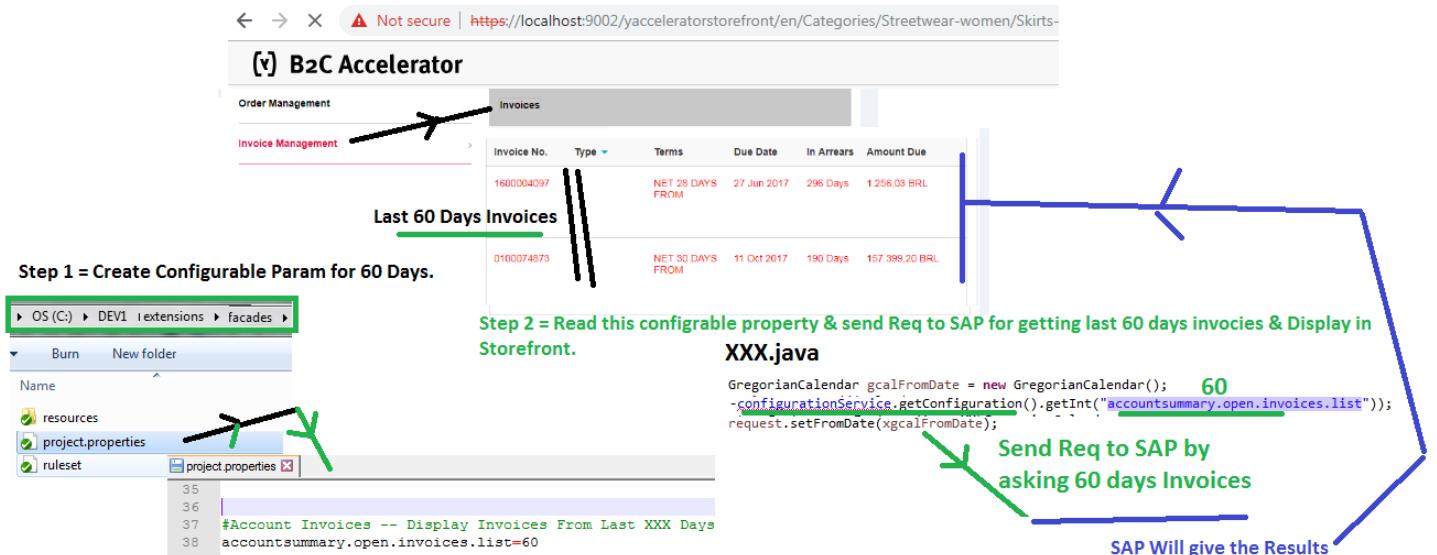
Configuration Service takes less resource when you compare with Config.

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 </li>
28
29 <c:forEach begin="i" 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 </ul>
44 </div>
```

**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 navigation bar with links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. A green box highlights the 'QUICK ORDER' button. Below the navigation, there is a breadcrumb trail: HOME / QUICK ORDER. To the right of the breadcrumb, there is a 'IMPORT SAVED CART' button. The main content area is titled 'Quick Order'. It contains a message: 'You can add up to 25 valid SKUs below and add to cart. Stock is reserved once products are added to cart.' There are two rows of product data. Each row includes a product code input field (300438590 and 300460184), a green checkmark icon, a product image, a product name ('Mannual Bricks Insulated Jacket youth red L'), its status ('In Stock'), price (£68.81 and £64.76), quantity input fields (1), total price (£68.81 and £64.76), and a delete icon (a green 'X'). At the bottom right of the table, there are 'RESET FORM' and 'ADD TO BAG' buttons.

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

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

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

/ Part Number	Material Name
4088362	DFS-6040 Silane 200 KG
1696360	Additive 200 KG (441 LB)

**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**.

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.

hybris Backoffice Not secure | localhost:9002/backoffice/

[v] Commerce Administration

Catalog Versions Categories Products

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

How to fix this Try to fetch the results form Solr Article Numb... Identifier No entries

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

hybris Backoffice Not secure | localhost:9002/backoffice/

[v] Commerce Product Cockpit

All catalogs Default-Catalog

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

Try to fetch the Products from Solr + - edit search No entries

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

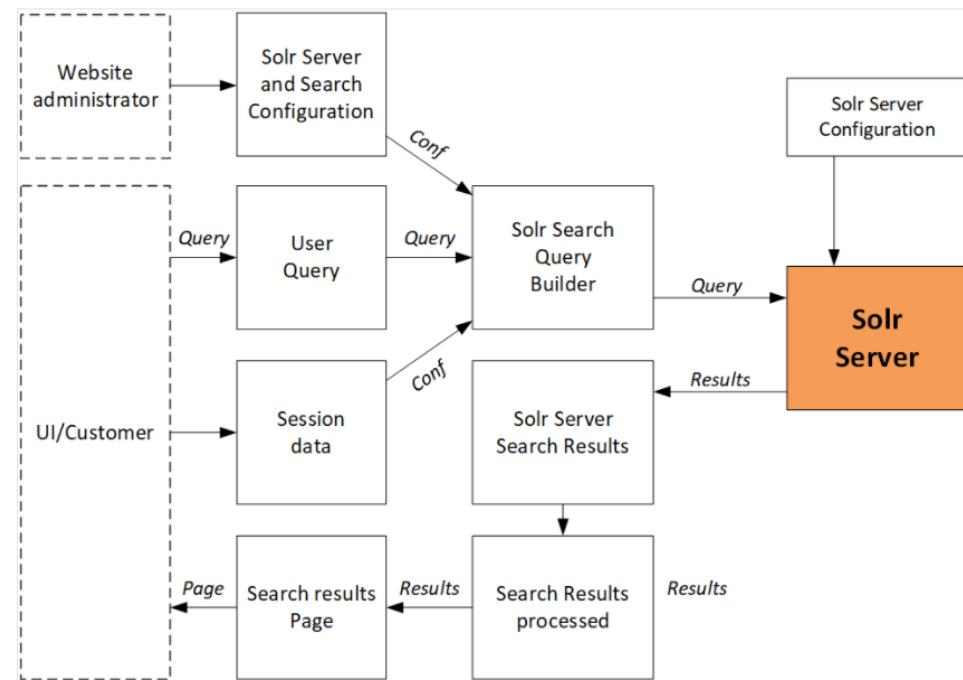
Then – Use the Product → Switch Search Mode [Advanced Search].

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

The screenshot shows the hybris Backoffice interface. On the left, there's a sidebar with navigation items like System, Catalog, Catalogs, Catalog Versions, Categories, Products (which is highlighted with a green box), and Product Variant Types. The main area has a search bar at the top with 'Product' typed in, and a 'SEARCH' button highlighted with a yellow box and a green arrow pointing to it. Below the search bar, there are filters for Alternative ID and Equals. A table lists products with columns for Article Number, Identifier, Status, and Catalog Version. Two products are visible: '637227 Plier Set (3 Pack)' and '693923 P.C. Service Kit / C.S.A. Soldering Iron'. A green arrow points from the 'SEARCH' button to the table, indicating that the results are fetched from the database.

**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

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

# B2C Accelerator

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CAPS

Shop by Stores

Results coming from Solr

caps

SearchPageController.java

```
2 * [v] hybris Platform
11 package de.hybris.platform.yacceleratorstorefront.cont
12
13 import de.hybris.platform.acceleratorcms.model.compone
14
15
16 @Controller
17 @RequestMapping("/search")
18 public class SearchPageController extends AbstractSear
19 {
20     private static final String SEARCH_META_DESCRIPTION
21     private static final String SEARCH_META_DESCRIPTION
22
23     @SuppressWarnings("unused")
24     private static final Logger LOG = Logger.getLogger(
25
26     private static final String COMPONENT_UID_PATH_VARI
27     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?**

The screenshot shows the hybris Backoffice Commerce interface. At the top, there are two browser tabs: one for 'hybris Backoffice' and another for 'localhost:9002/backoffice/'. The second tab displays a search bar with the message 'Could not execute full-text query. Please initialize the index [here](#)'. Below the search bar, the main content area has a blue header 'Commerce'. On the left, a sidebar menu is visible with items: Catalog (selected), Catalogs, Catalog Versions, Categories, and Products. The main content area shows a search bar with the same error message, a toolbar with various icons, and a table with columns 'Article Numb...' and 'Identifier'. A red box highlights the error message in the search bar, and a red arrow points from the 'Catalog' item in the sidebar to the 'Catalog' item in the search bar.

hybris Backoffice

Not secure | localhost:9002/backoffice/

## Commerce

Administration

Filter Tree entries

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

hybris Backoffice

Not secure | localhost:9002/backoffice/

## Commerce

Administration

Filter Tree entries

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

Catalog

Catalogs

Catalog Versions

Categories

Products

How to fix this

Try to fetch the results form Solr

Article Numb... Identifier

No entries

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

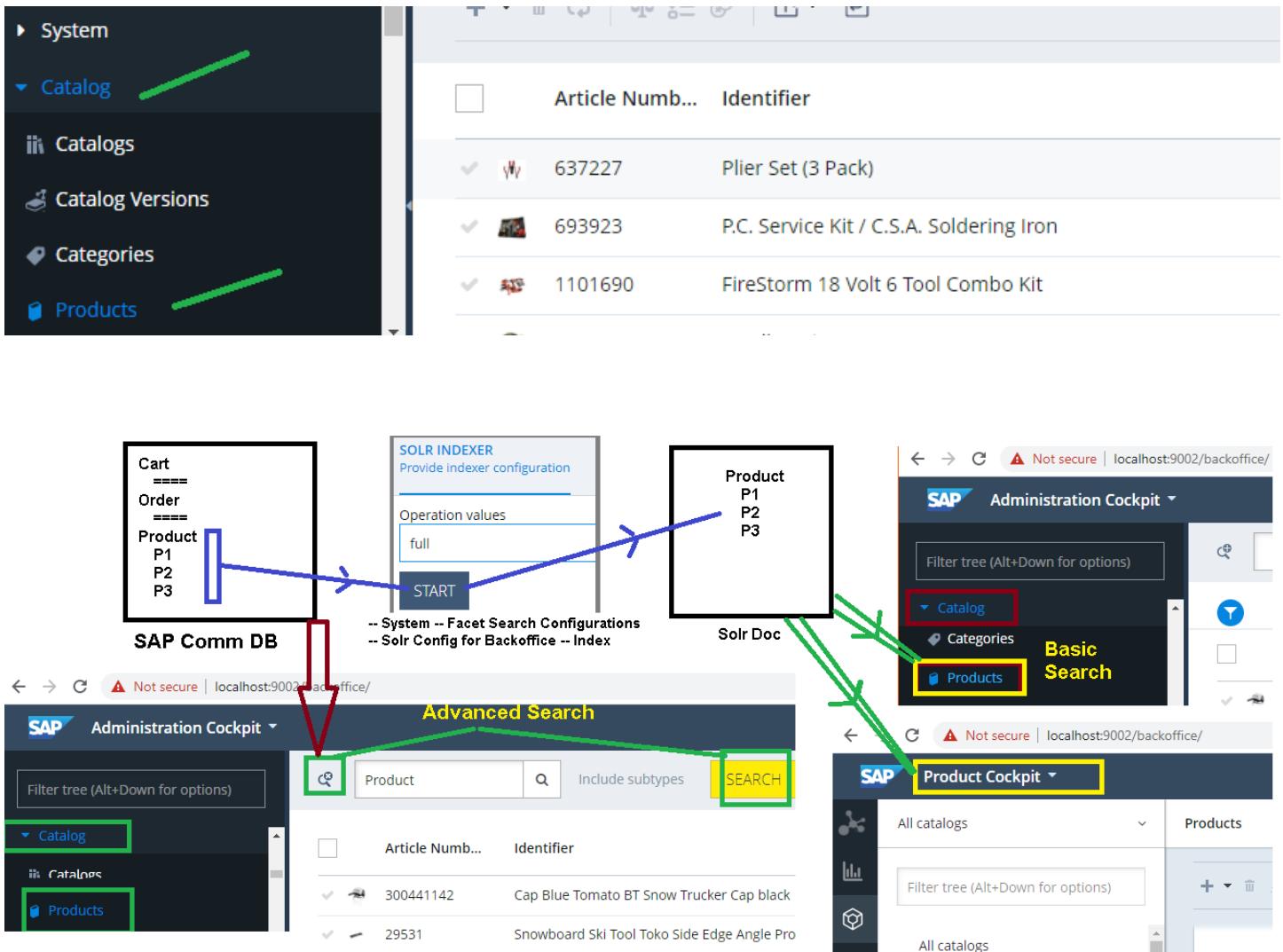
→ Backoffice → System → Search and Navigation

The screenshot shows the SAP Backoffice interface under the 'System' menu, specifically the 'Search and Navigation' section. A 'Facet Search Configurations' item is selected. On the right, a configuration page for 'Solr Config for Backoffice' is displayed. The 'SOLR INDEXER' section contains a 'Provide indexer configuration' field and an 'Operation values' field set to 'full'. A large green box highlights the 'Index' button and the 'START' button. The 'PROPERTIES' tab is selected at the bottom.

## Results – In Product Cockpit

The screenshot shows the SAP Product Cockpit interface. On the left, a sidebar displays 'All catalogs' and a tree view with 'Default-Catalog', 'Electronics Classification', and 'Powertools Classification'. On the right, a main area titled 'Products' shows two items: a pair of pliers and a tool kit. Green arrows point from the 'Default-Catalog' and 'Electronics Classification' entries in the sidebar towards their respective product cards in the main area.

## Results – In Backoffice [Basic Search]



## 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.

**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's a 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	
000006D	solrIndexerJob	FINISHED	SUCCESS	

The screenshot shows the hybris administration console under the 'Monitoring' tab. A large yellow banner on the right says 'Sol2 = From hAC [Only Running Cron Jobs]'. Below it, a table shows a single cron job:

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

## Scenario = Solr & Database

1) Search Results Page = Get the results from **Solr**.

A screenshot of a web browser showing a search results page for 'caps'. The URL is [localhost:9002/yacceleratorstorefront/en/search/?text=caps](http://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 links: BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH. The breadcrumb navigation shows: HOME / CAPS. On the left, there is a 'Shop by Stores' section with a search bar and a location pin icon. The main content area displays a message: '19 Products found' followed by four images of caps. A green callout box with the text 'These are coming from Solr.' is positioned above the products.

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

A screenshot of a web browser showing a category page for 'Snowwear-men/Snow-Jackets'. The URL is [localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/c/190100](http://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 links: BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH. The breadcrumb navigation shows: HOME / CATEGORIES / SNOWWEAR MEN / SNOWJACKETS. On the left, there is a 'Shop by Stores' section with a search bar and a location pin icon. The main content area displays a message: '7 Products found' followed by four images of snow jackets. A green callout box with the text 'These are coming from Solr.' is positioned above the products.

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

A screenshot of a web browser showing a product page for a 'Limited Jacket'. The URL is [localhost:9002/yacceleratorstorefront/en/Categories/Snowwear-men/Snow-Jackets/Limited-Jacket/p/300678848](http://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 links: BRANDS, STREETWEAR, SNOW, ACCESSORIES, YOUTH. The breadcrumb navigation shows: HOME / CATEGORIES / SNOWWEAR MEN / SNOWJACKETS / LIMITED JACKET. The main content area displays product details: 'Limited Jacket deepest black M | ID 300678848', 'Product review summary', a star rating, and a 'Write a Review' link. A red arrow points from the 'Product review summary' text to the word 'database'. The price is listed as £485.96. A red callout box with the text 'This results is coming from database.' is positioned next to the 'Product review summary' text.

## Step 1 = Modify Product name = 300678848

The screenshot shows the B2C Accelerator product management interface. A red arrow points from the text "Product Name -- Modify this." to the product identifier field in the search bar. A green arrow points from the text "Changed this." to the modified identifier value in the properties tab.

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

SEARCH

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

The screenshot shows the B2C Accelerator storefront. A green arrow points from the text "Results is coming in PDP [Coming from Database]" to the product title on the page.

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

Chenna RRRS - Limited Jacket deepest black M | ID 300678848

Results is coming in PDP [Coming from Database]

Contact Us = ChennaReddyTraining@RRRS.CO.IN

## 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 "facet". Under "System", there is a yellow box around "Facet Search Configurations". The main area shows a table with one item: "apparel-ukIndex" (Apparel UK Solr Index). The "update" button is highlighted with a green arrow. A modal window titled "Create New SolrIndexerOperationWizard" is open, showing "SOLR INDEXER" and "Operation values" with "update" selected. A green arrow points to the "START" button.

The screenshot shows the SAP Administration Cockpit. The left sidebar has a yellow box around "facet" and "Facet Search Configurations". The main area shows a modal window titled "Create New SolrIndexerOperationWizard" with the message "Indexing finished successfully". A green arrow points to the "DONE" button.

## Results – In Category Page / Search Page

The screenshot shows a search results page for the query "300678848". The main content area displays a product card for "Chenna RRRS - Limited Jacket deepest black M" priced at £485.96. A green callout box with the text "Changes are coming" points to the product image. To the right, a sidebar also shows the same product card with another "Changes are coming" callout. On the left, there's a "Shop by Stores" section with a search bar and a "Sort By" dropdown set to "Relevance".

**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 Document.

**Hot update index** = Only specified product data will move to Solr Doc.

The image shows three sequential steps in the SolrIndexer interface:

- Create New SolrIndexerOperationWizard**: Shows a dropdown menu with "full", "update", and "delete" options. The "full" option is selected. Below the dropdown, there are two buttons: "Index" (highlighted with a green box) and "Hot Update Index".
- Create New SolrIndexerHotUpdateWizard**: Shows the "TYPE AND OPERATION" step with "Product" selected as the item type and "update" selected as the operation value. A red arrow points from the "Index" button in the previous step to this screen, and another red arrow points to the "Next" button.
- Create New SolrIndexerHotUpdateWizard**: Shows the "Specify Product Details" step with a list of items: "1-Chenna RRRS - Limited Jacket deepest black M [300678848]". A red arrow points to the "Next" button.

**B2C Accelerator**

Type Some Chars & Hit Enter

**Site ID**

**Search ele | Electronics Site**

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

**HOME / ELE**

**You searched for "ele"**

**SORT BY:** RELEVANCE **Results**

149 Products found

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

**Shop by Stores**

**FIND STORES**

**Shop by Price**

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

**Marketing**

**WCMS Website**

**Page Type**

**Page Template**

**Content Slot Relation for a Page Template**

**Page**

```

20 * Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
4 package de.hybris.platform.yacceleratorstorefront.controllers.pages;
5
6 import de.hybris.platform.acceleratorcms.model.components.SearchBoxComp
45
46
47 @Controller
48 @RequestMapping("/search")
49 public class SearchPageController extends AbstractSearchPageController
50 {

```

**Here we have Logic to get the results from Solr.**

ID	Name	Action
electronics	Electronics Site	true

**Electronics Site**

**PROPERTIES WCMS PROPERTIES PERSO**

**Solr Search Configuration**

electronicsIndex

**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**

**Edit item Default**

**electronicIndex**

**electronicIndex**

**SEARCH AND INDEXER CONFIGURATION**

Solr server configuration: Default

Indexer configuration: Default

**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

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=\*:\*, start:0, and rows:10. The results section displays a JSON response with 2484 documents found, starting from index 0. The results list includes various product details such as indexOperationId, id, pk, catalogId, catalogVersion, pickupAvailableFlag, availableInStores, and names like "Cambridge Museum", "Newcastle upon Tyne University", "Glasgow", "Birmingham Park", and "Edinburgh Park". A green arrow points from the 'Execute Query' button to the results.

**Q =** 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 diagram illustrates the indexing process from SAP Commerce DB to a Solr index. It shows three main components: SAP Commerce DB, Solr Doc, and apprel-ukIndex.

- SAP Commerce DB:** Contains tables for Cart, Order, and Product.
- Solr Doc:** Represented by a green rounded rectangle labeled "apparel-ukIndex".
- apprel-ukIndex:** Represented by a grey rounded rectangle containing the Solr Admin interface.

A blue arrow points from the SAP Commerce DB tables to the Solr Doc. A red box highlights the "apparel-ukIndex" table in the SAP DB. A red question mark "Q = In Solr Doc why Cart table data / Order table / .... is not there?" is placed near the SAP DB table. A blue arrow points from the SAP DB to the Solr Doc. A green box highlights the "INDEXED TYPES" tab in the Solr Admin interface.

In the Solr Admin interface, the "apparel-ukProductType ComposedTypeModel (8796099149906@36)" is shown. The "INDEXED TYPES" tab is selected. It lists 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} >= ...))". A green box highlights the "Identifier" field, which contains "apparel-ukProductType". A green box also highlights the "Composed Type" field, which contains "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 tree includes 'System', 'Search and Navigation', 'Solr Facet Search Configuration', and 'Backoffice'. Under 'Solr Facet Search Configuration', 'Facet Search Configurations' is selected. A list of configurations is shown, with one named 'electronicsIndex' highlighted. An arrow points from this configuration to a detailed view of the 'electronicsIndex' index settings. The detailed view shows tabs for 'PROPERTIES', 'INDEXED TYPES', 'KEYWORD REDIRECTS', 'SYNONYMS', 'STOPWORDS', 'CRON JOBS', and 'ADMINISTRATION'. The 'INDEXED TYPES' tab is active, showing a table with columns: Name, Type, Facet, Multi-value, Use for sp..., Use for au..., Inverted, and Trigram. Several indexed properties are listed, such as itemtype, code, name, description, and summary. Another arrow points from the 'electronicsIndex' configuration in the main list to this detailed view.

Edit item electronicsProductType ComposedTypeModel (8796099084370@35)

The screenshot shows the 'electronicsProductType' ComposedTypeModel edit screen. The 'INDEXED PROPERTIES' tab is selected, displaying a table of indexed properties with columns: Name, Type, Facet, Multi-value, Use for sp..., Use for au..., Inverted, and Trigram. Properties like itemtype, code, name, description, and summary are listed. To the right, a 'solr.impex' file is displayed, showing Solr configuration macros. Arrows point from the 'electronicsProductType' configuration in the main list to both the 'INDEXED PROPERTIES' table and the 'solr.impex' file.

## Scenario = Creating “Indexed Properties”?

Solution 1 = We can do changes directly from Backoffice

The screenshot shows the SAP BackOffice interface for managing Solr indexes. The top navigation bar includes 'Index' and 'Hot Update Index' buttons, and tabs for 'PROPERTIES', 'INDEXED TYPES' (which is selected), 'KEYWORD REDIRECTS', 'SYNONYMS', 'STOPWORDS', 'CRON JOBS', and 'ADMINISTRATION'. The main area is titled 'Edit item apparel-ukProductType ComposedTypeModel (8796099149)'. Under 'INDEXED TYPES', there is a section for 'Indexed Properties' with a circled 'Identifier' field containing 'apparel-ukProductType'. A green arrow points from this identifier to a 'Create new Property' button at the bottom of the indexed properties table. The table lists two properties: 'description' (text, false, false, false) and 'summary' (text, false, false, false). The 'INDEXED PROPERTIES' tab is highlighted.

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 the SAP IDEAS IDE with an open 'solr.impex' file. The file contains Solr configuration code for indexed properties. A green arrow points to a note in the code: 'This is code changes ... We can easily deploy into other Environments [Dev ... UAT ... Prod ...]'. The code includes sections for non-facet properties and indexed properties, with the latter starting with 'INSERT\_UPDATE SolrIndexedProperty;solrIndexedType(identifier)[unique=true];name[unique=true];type(code);'. The project explorer on the left shows various SAP BackOffice components like 'acceleratorbackoffice', 'acceleratorcms', etc.

**Scenario = “SAP Comm” comes with inbuilt Solr.**

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

The screenshot shows the SAP Solr configuration interface. On the left, a sidebar lists 'System' and 'Solr Facet Search Configuration' under 'Facet Search Configurations'. The main area displays an index named 'apparel-ukIndex' with tabs for 'PROPERTIES', 'INDEXED TYPES', and 'KEYWORD INDEX'. A green box highlights the 'PROPERTIES' tab. A green callout points from the 'Edit item Default' button in the top right to a detailed configuration dialog on the right. This dialog is titled 'Edit item Default' and contains tabs for 'GENERAL CONFIGURATION', 'SERVER CONFIGURATION', 'CLIENT CONFIGURATION', and 'ADMINISTRATION'. Under 'GENERAL CONFIGURATION', fields include 'Identifier' (Default), 'Mode' (standalone), 'Endpoint URLs' (https://localhost:8983/solr), and 'Solr query method' (GET). A green box highlights the 'Identifier' field, and another green callout points to the 'Endpoint URLs' field.

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

```
essentialdataSolr.impex
9# 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>

The screenshot shows a storefront interface for 'B2C Accelerator'. At the top, there's a search bar with placeholder 'I'm looking for' and a magnifying glass icon. Below the search bar is a navigation menu with links: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The current page path is indicated by a breadcrumb trail: HOME / CATEGORIES / ACCESSORIES / WATCHES. On the left, a sidebar titled 'Shop by Price' lists three price ranges: £50-£99.99 (1), £100-£199.99 (4), and £200-£299.99 (3). The range £100-£199.99 is highlighted with a green border. To the right, a grid of four watches is displayed with their prices: £105.26, £129.56, £137.66, and £137.66. A red arrow points from the highlighted price facet in the sidebar to the first watch in the grid. Another red arrow points from the same sidebar entry to the second watch in the grid. Red text at the top right of the page reads: 'Req = Your company is asking to split this into 2 parts: - 100 - 129.99 [1 Price Facet] 130 - 199.99 [1 Price Facet]'.

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

The screenshot shows the Eclipse IDE interface with a project named 'ChennaRRRS' open. The 'Project Explorer' view on the left shows various Java packages and resources. The 'solr.impex' file is currently selected in the center, showing Solr configuration code. The code defines price ranges using the 'INSERT\_UPDATE' command. A red arrow points to the line '44 ;rangeRefGBP4 ;apparelPriceRangeGBP; f100-f199.99; 100;199.99' with the text 'Remove' next to it. Another red arrow points to the line '45 ;rangeRefGBP4 ;apparelPriceRangeGBP; f100-f129.99; 100;129.99' with the text 'Add These' next to it. The code also includes other price range definitions like GBP1, GBP2, GBP3, GBP5, and GBP6.

```
38 # Define price ranges
39 INSERT_UPDATE SolrValueRange;&rangeValueRef ID;solrValueRangeSet(name)[unique=true];
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 browser address bar displays "localhost:9002/console/impelex/import". The main 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 central content area has tabs for "Import content" (which is selected and highlighted with a green box) and "Import script". The "Import content" tab contains 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 buttons for "Clear content", "Import content" (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 includes sections for ranges, System, Search and Navigation, and Solr Facet Search Configuration, with "Ranges" being the active tab (highlighted with a green box). The main content area shows a list of price ranges under the heading "apparelPriceRangeGBP:double". A red circle highlights the "Remove" button next to the first range entry. A red arrow points from this entry to a text annotation that says "Remove this.". Another green arrow points to the second range entry, with the text annotation "New Price Range Facets are created.".

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

## Step 4 = Run the “Apparel Site Index”

SAP Administration Cockpit

facet

**SOLR INDEXER**  
Provide indexer configuration

**Operation values**

- update
- full**
- update
- delete

**apparel-ukIndex**

**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)

Products found

£105.26      £129.56      £137.66      £137.66

**FIND STORES**

**100 - 199.99 Price Facet is now split 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)

Contact Us = ChennaReddyTraining@RRRS.CO.IN

## Scenario = “Solr – Facets” based on Classification Attribute

URL =

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

## Step 1 = Find the code

```
$feature4_1=@Tripod head, 1869[$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;
;26;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

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES

TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0

Tripod legs	Mounting
3 leg(s)	Floor-standing
Special features	Material
[+]	[.300]

29925 **SEARCH**

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

PROPERTIES ATTRIBUTES BUNDLING CATEGORY SYSTEM PRICES

TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0

Tripod legs	Mounting
3 leg(s)	Floor-standing
Special features	Material
[+]	Quick lock

## 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**  
Remote control tripod  
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

\$149.71      \$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$catalogVersion=catalogversion(catalog(id[default=$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

```

**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]
Special features	Material	Source data-sheet	
+ / -	Quick lock	Aluminum, ABS, POM	[300]
3-way Tripod Head Positioning...			

## Scenario = Solr - Keyword Redirects

The screenshot shows a web browser window with two tabs: "Your Shopping Bag | Apparel Site" and "SAP CX Backoffice". The main content is a storefront titled "B2C Accelerator". A green arrow points from the word "basket" in the search bar to the "Enter" button. Another green arrow points from the "basket" entry in the search bar down to the "CONTINUE SHOPPING" button.

## Solution =

The screenshot shows the SAP CX Backoffice interface for Solr configuration. On the left, there's a sidebar with "Facet Search Configurations" highlighted. The main area shows an index named "apparel-ukIndex" with a "KEYWORD REDIRECTS" tab selected. A red arrow points from the "EXACT basket" entry in the list to the "Edit item EXACT basket" dialog on the right. This dialog shows the "KEYWORD REDIRECT" section with "basket" as the keyword and "/cart" as the redirect, both highlighted with green arrows. Other entries like "EXACT cart" and "EXACT accelerator" are shown in the list.

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 >



A screenshot of the B2C Accelerator storefront. The top navigation bar shows 'WELCOME CHENNA' and 'MY ACCOUNT'. Below it is a search bar with placeholder 'I'm looking for' and a magnifying glass icon. The main menu includes 'BRANDS', 'STREETWEAR', 'SNOW', 'ACCESSORIES' (which is highlighted in green), and 'YOUTH'. Under 'MEN', there are links for 'BANDANAS', 'BEANIES', 'BELTS', and 'CAPS' (also highlighted in green). Under 'WOMEN', there are links for 'BAG', 'BELTS', 'WATCHES', and 'BROWSE ALL >'. Three hats are displayed on mannequin heads: a grey baseball cap with a red logo, a black baseball cap with a white logo, and a green baseball cap.

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

B2C Accelerator WELCOME CHENNA

hats

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / HATS

Shop by Stores

SORT BY:



A screenshot of the B2C Accelerator storefront showing a search result for 'hats'. The search bar at the top contains 'hats'. Below the search bar, the main menu is visible. A green arrow points from the search bar down to the search results. The search results show three hats: a grey baseball cap with a red logo, a black baseball cap with a white logo, and a green baseball cap. A green callout box with the text 'Even if we search with hats ... Caps are displaying.' is positioned next to the search results.

# 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 content area shows the 'SYNONYMS' configuration. A green box highlights the 'SYNONYMS' tab in the top navigation bar. Another green box highlights the 'SYNONYMS' section in the main content area. A third green box highlights the 'hats -> caps' entry in the list of synonyms.

Q = Where can we see the logic?

```
29 ;snow;$productCatalog-redirectRefID-snow
30 ;350000;$productCatalog-redirectRefID-surf
31
32 # Synonyms (Must use INSERT_UPDATE here)
33 INSERT_UPDATE SolrSynonymConfig;facetSearchConfig(name)[unique=true,default=$facetSearchConfigName];from=;"$hats";"caps"
34 ;;"$shoes,sneaker,sneakers,trainer";"shoe"
35 ;;"$shades,glasses";"sunglasses"
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 content area shows a file browser with several files listed: lang/, protwords.txt, schema.xml, solrconfig.xml, stopwords.txt, and synonyms.txt. A green arrow points from the 'synonyms.txt' file in the 'Files' list to the 'synonyms.txt' file in the code editor window. The code editor window shows the same 'solr\_en.impex' file with the 'synonyms.txt' section highlighted.

## 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 =

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	

The screenshot shows the Solr Admin interface for the 'apparel-ukIndex' index. The 'STOPWORDS' tab is selected. On the right, there is a 'STOPWORDS' section with an 'EXPORT TO SOLR' button and a 'Stopwords' field containing three dots. The left sidebar shows the 'Facet Search Configurations' section highlighted. The URL in the browser bar is [https://localhost:8983/solr/#/master\\_apparel-uk\\_Product\\_default/files?file=stopwords.txt](https://localhost:8983/solr/#/master_apparel-uk_Product_default/files?file=stopwords.txt).

The screenshot shows the Eclipse IDE with a Java perspective. A file named 'stopwords.txt' is open in the editor, showing its contents: '# some examples:', '# and', and '# or'. The file path in the status bar is [https://localhost:8983/solr/master\\_apparel-uk\\_Product\\_default/admin/file?wt=json&\\_=1621311205646&file=stopwords.txt](https://localhost:8983/solr/master_apparel-uk_Product_default/admin/file?wt=json&_=1621311205646&file=stopwords.txt). The left sidebar shows the 'Files' view with files like 'lang/' and 'stopwords.txt' selected.

# 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

**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**

Edit item apparel-ukProductType ComposedTypeModel

INDEXED TYPES

Identifier
apparel-ukProductType

**SOLR 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 Search Project Run SAP Window Help
Project Expl... Package Ex... solr_en.impex
> acceleratorbackoffice
> acceleratormcs
> acceleratorfacades
> acceleratorocc
> acceleratorservices
> acceleratorstorefrontcommons
> accountsummaryaddon
> adaptivesearch

# Define the available sorts
UPDATE SolrSort;indexedType(identifier)[unique=true];code[unique=true];name[lang=${lang}]
${solrIndexedType};name-asc;"Name (ascending)"
${solrIndexedType};name-desc;"Name (descending)"
${solrIndexedType};price-asc;"Price (lowest first)"
${solrIndexedType};price-desc;"Price (highest first)"
${solrIndexedType};relevance;"Relevance"
${solrIndexedType};topRated;"Top Rated"
${solrIndexedType};summary;"summary"
${solrIndexedType};swatchColors;"Colour"

```

**Scenario = We have Facets implemented in different ways: -**

## 1<sup>st</sup> 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-\$1000.00 (21)

**Eclipse201912 - electronicsstore/resources/electronicsstore/import/sam**

**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-$100,000;1000; 100000
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

## 2<sup>nd</sup> Method =

The screenshot shows a web-based catalog interface for a 'CYBER-SHOT W80, BLACK' camera. On the left, there's a sidebar titled 'Shop by Camera Mode' with 'Professional (2)' and 'Standard (2)'. Below it is 'Shop by Mounting' with 'Floor-standing (2)' and 'Quick-release Mounting Shoe (1)'. A green bracket highlights these two categories. An orange arrow points from this bracket to the 'Catalog' section of the main navigation menu on the right, which is also highlighted with a green box. The main content area displays 'TECHNICAL DETAILS [634] - ELECTRONICS CLASSIFICATION : 1.0'. Under 'Mounting', there's a facet value 'Floor-standing' with a green box around it. Other facets shown include 'Tripod legs' (3 leg(s)) and 'Colour of product' (.[300]).

**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**

This screenshot shows the same catalog interface as the previous one. The sidebar on the left has the 'Products' category highlighted with a green box. The main content area shows the same technical details and facets as before. The 'Mounting' facet value 'Chenna RRRS Floor' is highlighted with a green box. The other facets 'Tripod legs' (3 leg(s)) and 'Colour of product' (.[300]) are also visible.

```

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'. Under 'Solr Facet Search Configuration', 'Facet Search Configurations' is selected, and a new configuration named 'electronicsIndex' is highlighted. A modal window titled 'Create New SolrIndexerOp' is open, showing the 'SOLR INDEXER' section with 'Provide indexer configuration' and 'Operation values' set to 'update'. A green arrow points from the 'electronicsIndex' entry in the list to the 'START' button in the modal.

**Results** =

The screenshot shows the storefront interface. On the left, there are two 'Shop by Mounting' facets. The top one, labeled 'Today', shows 'Floor-standing (2)' and 'Quick-release Mounting Shoe (1)'. The bottom one, also labeled 'Today', shows a camera image. On the right, another 'Shop by Mounting' facet is shown, labeled 'Tomorrow', which shows 'Chenna RRRS Floor (1)', 'Floor-standing (1)', and 'Quick-release Mounting Shoe (1)'. A green arrow points from the 'Tomorrow' facet to a camera image, and another green arrow points from the 'Tomorrow' facet to the text 'CYBER-SH Cyber-sho blur and fa and STAM'.

Digital Cameras | Cameras | Open +

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, digital zoom and face detection technologies, ZEISS 3x optical zoom lens, 2.5-inch LCD screen, viewfinder and STAMINA battery life.

```

solr.impex      solr.impex      products-classifications_en.impex      products_en.impex      products-classifications_en.impex
6 #% impex.setLocale(Locale.ENGLISH);
7
8 # Macros / Replacement Parameter definitions
9 $productCatalog=electronicsProductCatalog
10 $catalogCatalogName=Electronics Product Catalog
11 $catalogVersion=catalogversion(catalogId[default=$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;ICEcat.biz;
24 ;1687508;3 leg(s);Floor-standing;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;Rubber;ICEcat.biz;

```

Digital Cameras | Cameras | Open +

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, digital zoom and face detection technologies, ZEISS 3x optical zoom lens, 2.5-inch LCD screen, viewfinder and STAMINA battery life.



```

solr.impex      solr.impex      products-classifications_en.impex      *products_en.impex
101 your memories in perfect quality. Our Camcorder product range offers you a high
102 new;miniDV Head Cleaner;- Provides an easy and effective means to remove dust an
103 ew 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.<br>
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 Cybershot DSC-F717 NON 5.2Mpix 8MB Carl Zeiss Len
108 br/>Maximum Load: 5 70 degrees up <br><br>/Quick-release Mounting Shoe <br>
109 DHC video;Makes capturing your memories on video easier then ever. Kingston Tech
110 deo;Makes capturing your memories on video easier then ever. Kingston Tech
111 SDHC video;Makes capturing your memories on video easier then ever. Kingston Tech
112 ht;20-watt video light compatible with InfoLITHIUM M-series batteries.;-20-watt
113 thium f Cybershot;AC Power Adaptor;<br><br>Enables power supply from an AC out
114 AC-VQP10 CHARGER F P BATTERY;AC charger and adaptor for P series InfoLITHIUM ca
115 ixel CMOS, 640X480, USB 1.1) Black;100K 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.<br>- Lithium-ion cells
119 SH64;Cyber-shot W1 + MSH64;5.1 effective Megapixel Cyber-shot W1 with 3x optical

```