Unit 5. Product Comparison

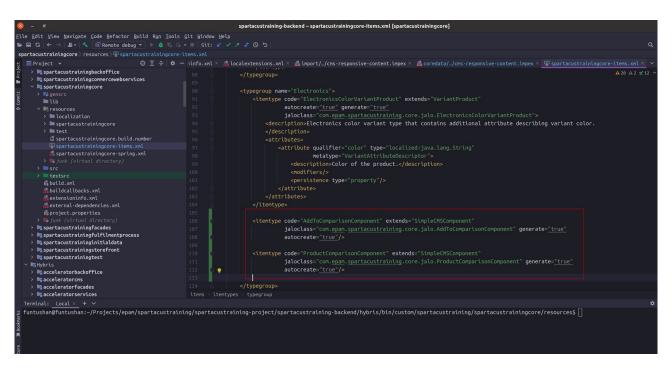
Backend steps:

1. in spartacustrainingcore/resources open spartacustrainingcore-items.xml and add next code to electronics typegroup:

<itemtype code="AddToComparisonComponent"
extends="SimpleCMSComponent"</pre>

<itemtype code="ProductComparisonComponent"
extends="SimpleCMSComponent"</pre>

jaloclass="com.epam.spartacustraining.core.jalo.ProductCompa
risonComponent" generate="true"
 autocreate="true"/>



2. in

/spartacustraining-backend/hybris/bin/custom/spartacustrainingcommercewebservices/resources open spartacustrainingcommercewebservices-beans.xml and add next code

<bean

class="com.epam.spartacustraining.commercewebservices.dto.Co
mparisonProductsWsDTO">

property name="products"

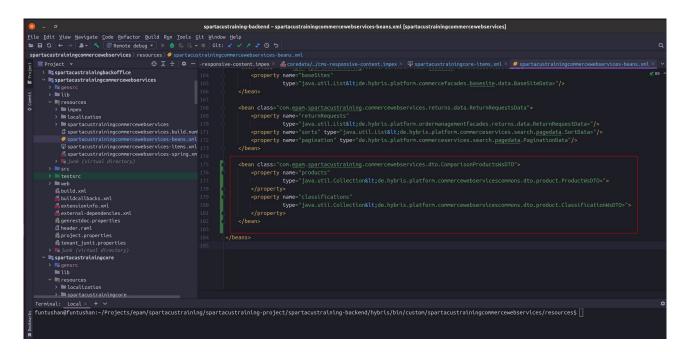
type="java.util.Collection&alt;de.hybris.platform.commercewe
bservicescommons.dto.product.ProductWsDTO>">

</property>
classifications"

type="java.util.Collection&alt;de.hybris.platform.commercewe
bservicescommons.dto.product.ClassificationWsDTO>">

</property>

</bean>



- 2. in hybris/bin/platform run . ./setantenv.sh (bat)
- 3. run ant all (clean all if you have a errors)

4. In

spartacustraining-backend/hybris/bin/custom/spartacustrainin gcommercewebservices/web/src/com/epam/spartacustraining/ commercewebservices/v2/controller create new java class -ProductComparisonRestController.java file

and add this code to file:

```
package
com.epam.spartacustraining.commercewebservices.v2.controller
;
import javax.annotation.Resource;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashSet;
import java.util.List;
import java.util.Objects;
import java.util.Set;
import java.util.stream.Collectors;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import
de.hybris.platform.commercefacades.product.ProductFacade;
import
de.hybris.platform.commercefacades.product.ProductOption;
import
de.hvbris.platform.commercefacades.product.data.Classificati
onData:
import
de.hybris.platform.commercefacades.product.data.ProductData;
import
de.hybris.platform.commercewebservicescommons.dto.product.Cl
assificationWsDTO;
import
de.hybris.platform.commercewebservicescommons.dto.product.Pr
oductWsDT0:
import
de.hybris.platform.webservicescommons.mapping.DataMapper;
import
com.epam.spartacustraining.commercewebservices.dto.Compariso
nProductsWsDTO:
@RestController
@RequestMapping(value = "/{baseSiteId}/comparison")
public class ProductComparisonRestController {
```

```
private final static String fields =
"DEFAULT, images, classifications";
  private final static Set<ProductOption> OPTIONS = new
HashSet<>(Arrays.asList(ProductOption.values()));
  @Resource(name = "cwsProductFacade")
  private ProductFacade productFacade;
  @Resource(name = "dataMapper")
  private DataMapper dataMapper;
  @GetMapping("/products/{products}")
  public ResponseEntity<ComparisonProductsWsDTO>
getComparisonProductsWsDTO(@PathVariable final String
products)
    List<ProductData> productData =
getProducts(products).stream()
        .map(code ->
productFacade.getProductForCodeAndOptions(code, OPTIONS))
        .collect(Collectors.toList());
    return
ResponseEntity.status(HttpStatus.OK).body(getComparisonProdu
ctsDto(productData));
  }
  private List<String> getProducts(String s)
    return Arrays.asList(s.split(","));
  private ComparisonProductsWsDTO
getComparisonProductsDto(List<ProductData> productData)
    ComparisonProductsWsDTO comparisonProductsDto = new
ComparisonProductsWsDTO();
comparisonProductsDto.setProducts(dataMapper.mapAsList(produ
ctData, ProductWsDTO.class, fields));
comparisonProductsDto.setClassifications(dataMapper.mapAsLis
t(getClassificationData(productData),
ClassificationWsDTO.class, "code, name, features"));
    return comparisonProductsDto;
  }
```

```
private List<ClassificationData>
getClassificationData(List<ProductData> productData)
    List<ClassificationData> allClassifications = new
ArrayList<>();
    productData.stream()
        .filter(Objects::nonNull)
        .map(ProductData::getClassifications)
        .filter(Objects::nonNull)
        .forEach(classifications -> classifications
            .stream()
            .filter(Objects::nonNull)
            .forEach(classification -> {
              if (!contains(allClassifications,
classification)) {
                allClassifications.add(classification);
            }));
    return allClassifications;
  }
  private boolean contains(List<ClassificationData> list,
ClassificationData classification)
    return list.stream()
        .anvMatch(x ->
x.getCode().equals(classification.getCode()));
}
```

```
| Authority | Section | Section | Authority | Section | Authority | Section | Authority
```

- 5. Run ant all
- 6. Run server ./hybrisserver.sh
- 7. Open https://localhost:9002/hac and navigate to console/impex/import

and run next code:

```
$contentCatalog=electronics-spaContentCatalog
$contentCV=catalogVersion(CatalogVersion.catalog(Catalog.id[
default=$contentCatalog]),CatalogVersion.version[default=Sta
ged])[default=$contentCatalog:Staged]
$siteResource=jar:de.hybris.platform.spartacussampledata.con
stants.SpartacussampledataConstants&/spartacussampledata/
import/contentCatalogs/electronicsContentCatalog
```

AddToComparisonComponent; AddToComparisonComponent;

ProductIntroComponent, ProductImagesComponent, ProductSummaryComponent, VariantSelector, AddToCart, AddToWishListComponent, StockNotificationComponent, AddToComparisonComponent;

```
INSERT UPDATE ProductComparisonComponent; uid[unique = true]
                             ; $contentCV[unique = true]
; name
productComparisonComponent ; productComparisonComponent ;
INSERT UPDATE ContentPage; uid[unique = true]; name
; title[lan = en]; masterTemplate(uid, $contentCV); label
; defaultPage[default = 'true']; approvalStatus(code)
[default = 'approved']; homepage[default = 'false'];
$contentCV[unique = true]
                         ; productComparison ; Product
Comparison ; Comparison Products ; ContentPage1Template;
/comparison/products :
INSERT UPDATE ContentSlot; $contentCV[unique = true];
uid[unique = true] ; name
                                               ; active;
cmsComponents(uid, $contentCV)
Section2AComparison ; Slot Product Comparison ; true ;
productComparisonComponent
INSERT UPDATE ContentSlotForPage; $contentCV[unique = true];
uid[unique = true] ; position[unique = true]; page(uid,
$contentCV)[unique = true]; contentSlot(uid, $contentCV)
[unique = true]
Section2AComparison : Section2A
productComparison
                                    ; Section2AComparison
#add link
INSERT UPDATE CMSLinkComponent; $contentCV[unique = true];
uid[unique = true]; name
                                    : linkName
                                                      ; url
; target(code)[default = 'sameWindow']
ComparisonLink; Comparison page;
/comparison/products
INSERT UPDATE ContentSlot; $contentCV[unique = true];
                                             ; active;
uid[unique = true]; name
cmsComponents(uid, $contentCV)
SiteLinksSlot ; Slot contains some links ; true
ComparisonLink, OrdersLink, WishListLink, StoreFinderLink, Conta
ctUsLink, HelpLink
```

And run this code by online catalog

