

SFRA - Code Customization guide

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**SFCC - ESW Cartridge**

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1 Storefront Reference Architecture

Customizing the code

1.1 Customizing the template

1.1.1 page.isml

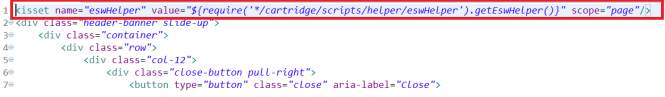
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/common/layout/page.isml |



|  |
| --- |
| <isinclude template=*"/components/footer/pageFooterESW"* /> |

1.1.2 pageHeader.isml

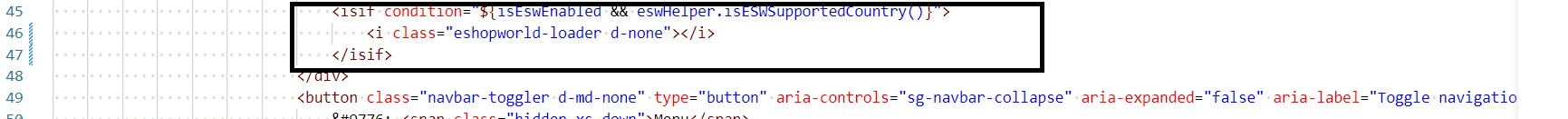
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/components/header/pageHeader.isml |



|  |
| --- |
| <isset name=*"eswHelper"* value=*"${require('\*/cartridge/scripts/helper/eswHelper').getEswHelper()}"* scope=*"page"*/> |

A picture containing application

Description automatically generated



|  |
| --- |
| <isif condition="${isEswEnabled && eswHelper.getEnableLandingPage() && request.httpParameterMap.get(dw.system.Site.current.preferences.custom.eswCountryUrlParam) == false}">      <isinclude url="${URLUtils.url('EShopWorld-GetEswLandingPage',dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam'), pdict.CurrentHttpParameterMap.get(dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam')))}"/>  </isif> |
| <isif condition="${isEswEnabled}">      <isinclude url="${URLUtils.url('EShopWorld-GetEswHeader', dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam'),pdict.CurrentHttpParameterMap.get(dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam')))}"/>  </isif>  <isif condition="${isEswEnabled && eswHelper.isFrontendConversionEnabled()}">      <isinclude url="${URLUtils.url('EShopWorld-GetEswAppResources', dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam'),pdict.CurrentHttpParameterMap.get(dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam')))}"/>  </isif>  <isif condition="${isEswEnabled && eswHelper.isESWSupportedCountry()}">      <i class="eshopworld-loader d-none"></i>  </isif> |

1.1.3 pageFooterESW.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/components/footer/pageFooterESW.isml |

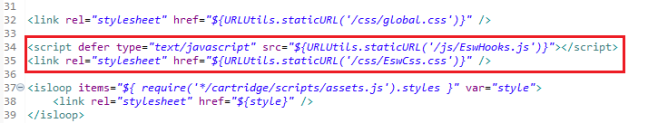
Graphical user interface, text

Description automatically generated with medium confidence

|  |
| --- |
| <isif condition="${eswHelper.getEShopWorldModuleEnabled()}">      <isinclude url="${URLUtils.url('EShopWorld-GetEswFooter',dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam'), pdict.CurrentHttpParameterMap.get(dw.system.Site.current.getCustomPreferenceValue('eswCountryUrlParam')))}"/>  </isif> |

1.1.4 htmlHead.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/common/htmlHead.isml |



|  |
| --- |
| <script defer type=*"text/javascript"* src=*"${URLUtils.staticURL('/js/EswHooks.js')}"*></script>  <link rel=*"stylesheet"* href=*"${URLUtils.staticURL('/css/EswCss.css')}"* /> |

1.1.5 cart.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/cart/cart.isml |

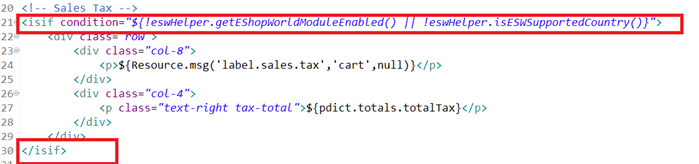




|  |
| --- |
| <isset name=*"eswHelper"* value=*"${require('\*/cartridge/scripts/helper/eswHelper').getEswHelper()}"* scope=*"page"* /> |
| <isif condition=*"${!eswHelper.getEShopWorldModuleEnabled() || !eswHelper.isESWSupportedCountry()}"*>  <div class=*"row"*>  <isinclude template=*"cart/cartShippingMethodSelection"* />  </div>  </isif> |

1.1.6 cartTotals.isml

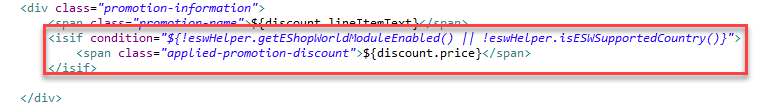
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/cart/cartTotals.isml |



|  |
| --- |
| <isif condition=*"${!eswHelper.getEShopWorldModuleEnabled() || !eswHelper.isESWSupportedCountry()}"*>  <div class=*"row"*>  <div class=*"col-8"*>  <p>${Resource.msg('label.sales.tax','cart',null)}</p>  </div>  <div class=*"col-4"*>  <p class=*"text-right tax-total"*>${pdict.totals.totalTax}</p>  </div>  </div>  </isif> |

1.1.7 cartCouponDisplay.isml

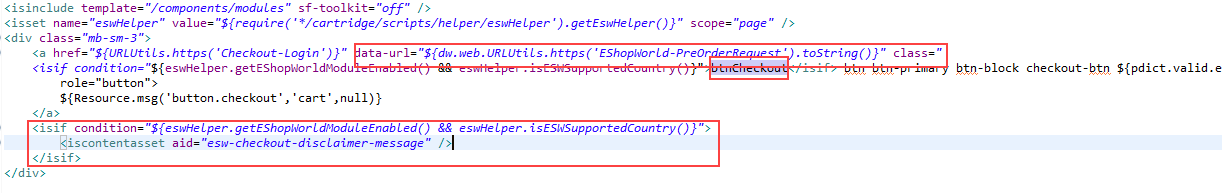
| Path |
| --- |
| /int\_eshopworld\_sfra/cartridge/templates/default/cart/cartCouponDisplay.isml |



|  |
| --- |
| <isif condition=*"${!eswHelper.getEShopWorldModuleEnabled() || !eswHelper.isESWSupportedCountry()}"*>  <span class=*"applied-promotion-discount"*>${discount.price}</span>  </isif> |

1.1.8 checkoutButtons.isml

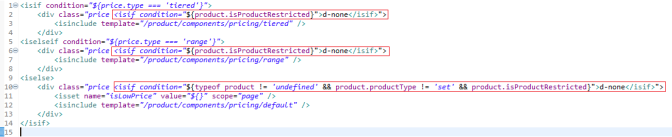
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/cart/checkoutButtons.isml |



|  |
| --- |
| <a href=*"${URLUtils.https('Checkout-Login')}"* data-url=*"${dw.web.URLUtils.https('EShopWorld-PreOrderRequest').toString()}"* class=*"*  *<isif condition="*${eswHelper.getEShopWorldModuleEnabled() && !!eswHelper.checkIsEswAllowedCountry(request.httpCookies['esw.location'].value)}">btnCheckout</isif> btn btn-primary btn-block checkout-btn ${pdict.valid.error ? 'disabled' : ''}" role="button"> |
| <isif condition=*"${eswHelper.getEShopWorldModuleEnabled() && eswHelper.isESWSupportedCountry()}"*>  <iscontentasset aid=*"esw-checkout-disclaimer-message"* />  </isif> |

1.1.9 main.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/pricing/main.isml |



|  |
| --- |
| <div class=*"price <isif condition="*${product.isProductRestricted}">d-none</isif>"> |
| <div class=*"price <isif condition="*${product.isProductRestricted}">d-none</isif>"> |
| <div class=*"price <isif condition="*${typeof product != *'undefined'* && product.productType != *'set'* && product.isProductRestricted}">d-none</isif>"> |

1.1.10 default.isml

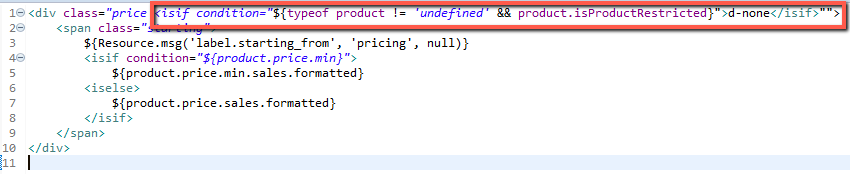
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/pricing/default.isml |



|  |
| --- |
| <isset name=*"eswHelper"* value=*"${require('\*/cartridge/scripts/helper/eswHelper').getEswHelper()}"* scope=*"page"* />  <isif condition=*"${eswHelper.getEShopWorldModuleEnabled() && eswHelper.isESWSupportedCountry()}"*>  <isinclude template=*"/product/components/pricing/defaultESW"* />  <iselse>  ... |
| ...  </isif> |

1.1.11 setPrice.isml

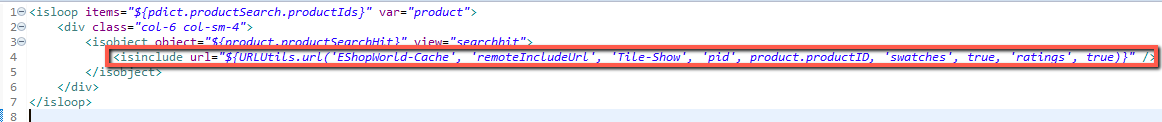
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/pricing/setPrice.isml |



|  |
| --- |
| <div class=*"price <isif condition="*${typeof product != *'undefined'* && product.isProductRestricted}">d-none</isif>"">  <span class=*"starting"*>  ${Resource.msg('label.starting\_from', 'pricing', null)}  <isif condition=*"${product.price.min}"*>  ${product.price.min.sales.formatted}  <iselse>  ${product.price.sales.formatted}  </isif>  </span>  </div> |

1.1.12 productTiles.isml

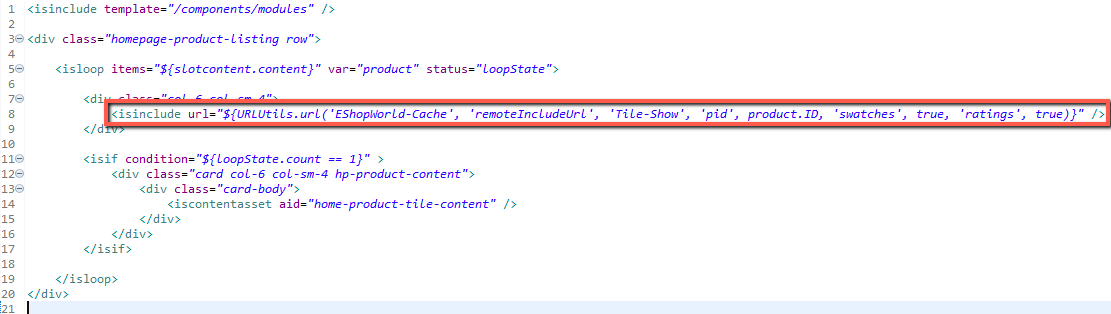
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/search/components/productTiles.isml |



|  |
| --- |
| <isinclude url=*"${URLUtils.url('EShopWorld-Cache', 'remoteIncludeUrl', 'Tile-Show', 'pid', product.productID, 'swatches', true, 'ratings', true)}"* /> |

1.1.13 homePageProductSlot.isml

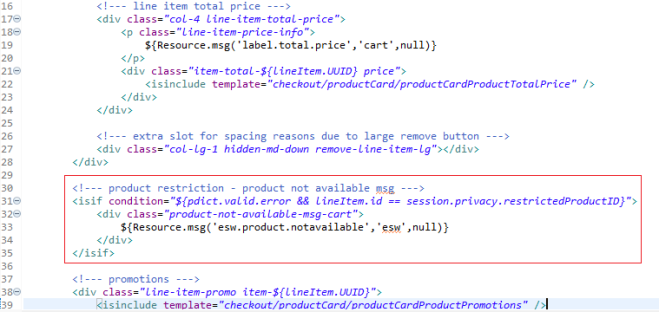
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/slots/product/homePageProductSlot.isml |



|  |
| --- |
| <isinclude url=*"${URLUtils.url('EShopWorld-Cache', 'remoteIncludeUrl', 'Tile-Show', 'pid', product.ID, 'swatches', true, 'ratings', true)}"* /> |

1.1.14 cartProductCardProductPrice.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/cart/productCard/cartProductCardProductPrice.isml |



|  |
| --- |
| <!--- product restriction - product not available msg --->  <isif condition=*"${pdict.valid.error && lineItem.id == session.privacy.restrictedProductID}"*>  <div class=*"product-not-available-msg-cart"*>  ${Resource.msg('esw.product.notavailable','esw',null)}  </div>  </isif> |

1.1.15 shippingSummary.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/checkout/shipping/shippingSummary.isml |

A screenshot of a computer

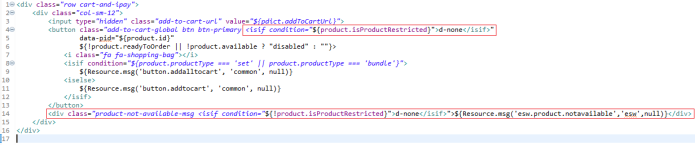
Description automatically generatedA screenshot of a computer

Description automatically generated

|  |
| --- |
| <isset name="eswHelper" value="${require('\*/cartridge/scripts/helper/eswHelper').getEswHelper()}" scope="page"/>  <!--- ESW Order/Package Tracking information --->  <isif condition="${eswHelper.isOrderDetailEnabled() && !empty(pdict.order.totals.eswTrackingURL) && !empty(pdict.order.totals.eswTrackingURL)}">      <span class="summary-section-label shipping-addr-label">${Resource.msg('orderhistory.esw.tracking.number', 'esw', null)}</span><br>      <a class="shipping-addr-label" target="\_blank" href="${pdict.order.totals.eswTrackingURL}">${pdict.order.totals.eswTrackingNumber}<br></a><br>  </isif> |

1.1.16 addToCartGlobal.isml

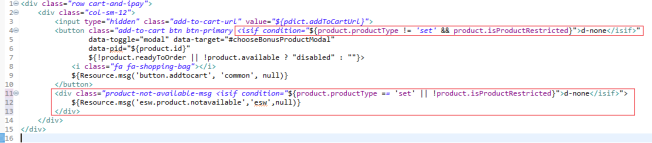
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/addToCartGlobal.isml |



|  |
| --- |
| <button class=*"add-to-cart-global btn btn-primary <isif condition="*${product.isProductRestricted}">d-none</isif>" |
| <div class=*"product-not-available-msg <isif condition="*${!product.isProductRestricted}">d-none</isif>">${Resource.msg('esw.product.notavailable','esw',null)}</div> |

1.1.17 addToCartProduct.isml

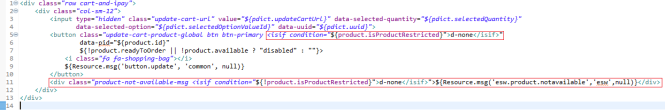
| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/addToCartProduct.isml |



|  |
| --- |
| <button class=*"add-to-cart btn btn-primary <isif condition="*${product.productType != *'set'* && product.isProductRestricted}">d-none</isif>" |
| <div class=*"product-not-available-msg <isif condition="*${product.productType =*=* 'set' || !product.isProductRestricted}">d-none</isif>">${Resource.msg('esw.product.notavailable','esw',null)}</div> |

1.1.18 updateCartProduct.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/product/components/updateCartProduct.isml |



|  |
| --- |
| <button class=*"update-cart-product-global btn btn-primary <isif condition="*${product.isProductRestricted}">d-none</isif>" |
| <div class=*"product-not-available-msg <isif condition="*${!product.isProductRestricted}">d-none</isif>">${Resource.msg('esw.product.notavailable','esw',null)}</div> |

1.1.19 productCardProductTotalPrice.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/checkout/productCard/productCardProductTotalPrice.isml |



|  |
| --- |
| <isset name=*"isEswEnabled"* value=*"${!empty(dw.system.Site.current.preferences.custom.eswEshopworldModuleEnabled) ? dw.system.Site.current.preferences.custom.eswEshopworldModuleEnabled : false}"* scope=*"page"* />  <isif condition=*"${isEswEnabled}"*>  <isset name=*"eswHelper"* value=*"${require('\*/cartridge/scripts/helper/eswHelper').getEswHelper()}"* scope=*"page"*/>  <isset name=*"formatMoney"* value=*"${require('dw/util/StringUtils').formatMoney}"* scope=*"page"* />  <isset name=*"matchingLineItem"* value=*"${eswHelper.getMatchingLineItem(lineItem)}"* scope=*"page"* />    <div class=*"strike-through <isif condition=${!lineItem.priceTotal.nonAdjustedPrice}>non-adjusted-price</isif>"*>  <isif condition=*${lineItem.priceTotal.nonAdjustedPrice}*>  ${formatMoney(lineItem.priceTotal.nonAdjustedPrice)}  </isif>  </div>  <div class=*"pricing line-item-total-price-amount item-total-${lineItem.UUID}"*>  <isif condition=*"${!empty(matchingLineItem)}"*>  ${formatMoney(eswHelper.getSubtotalObject(matchingLineItem, false))}  <iselse>  ${lineItem.priceTotal.price}  </isif>  </div>  <iselse>  <div class=*"strike-through <isif condition=${!lineItem.priceTotal.nonAdjustedPrice}>non-adjusted-price</isif>"*>  ${lineItem.priceTotal.nonAdjustedPrice}  </div>  <div class=*"pricing line-item-total-price-amount item-total-${lineItem.UUID}"*>${lineItem.priceTotal.price}</div>  </isif> |

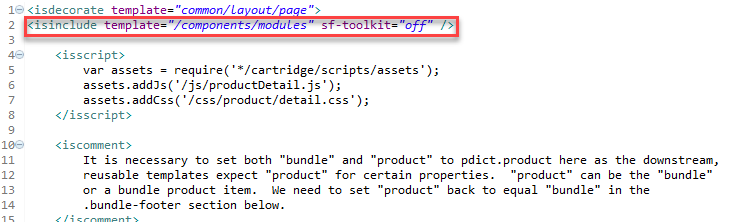
1.1.20 mobileCountrySelector.isml

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/templates/default/components/header/mobileCountrySelector.isml |

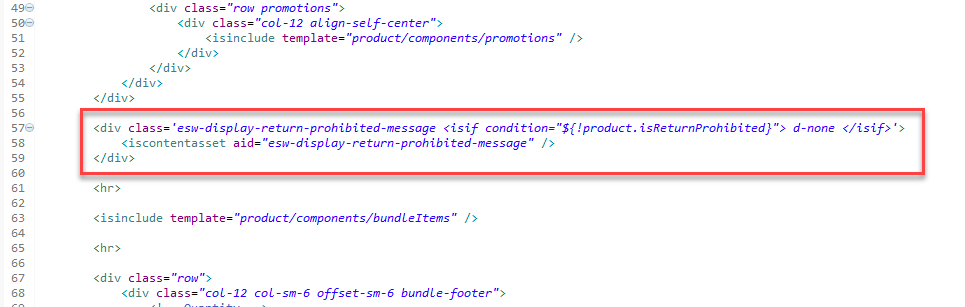
|  |
| --- |
| <isset name=*”isEswEnabled”* value=*”${!empty(dw.system.Site.current.preferences.custom.eswEshopworldModuleEnabled) ? dw.system.Site.current.preferences.custom.eswEshopworldModuleEnabled : false}”* scope=*”page”* />  <isif condition=*”${isEswEnabled}”*>  <isset name=*”eswHelper”* value=*”${require(‘\*/cartridge/scripts/helper/eswHelper’).getEswHelper()}”* scope=*”page”*/>  </isif>  <isif condition=*”${!isEswEnabled && pdict.localeModel.locale.localeLinks.length > 0}”*>  <li class=*”menu-item dropdown country-selector d-md-none”* data-url=*”${URLUtils.url(‘Page-SetLocale’)}”*>  <span class=*”btn dropdown-toggle”* id=*”dropdownCountrySelector”* data-toggle=*”dropdown”* aria-haspopup=*”true”* aria-expanded=*”false”*>  <I class=*”flag-icon flag-icon-${pdict.localeModel.locale.countryCode.toLowerCase()}”*></i>  ${pdict.localeModel.locale.displayName}  </span>  <div class=*”dropdown-menu dropdown-country-selector”* aria-labelledby=*”dropdownCountrySelector”*>  <isloop items=*”${pdict.localeModel.locale.localeLinks}”* var=*”localeLink”*>  <a class=*”dropdown-item”* href=*”${‘#’}”* data-locale=*”${localeLink.localID}”* data-currencyCode=*”${localeLink.currencyCode}”* >  <I class=*”flag-icon flag-icon-${localeLink.country.toLowerCase()}”*></i>  ${localeLink.displayName}  </a>  </isloop>  </div>  </li>  </isif>  <isif condition=*”${isEswEnabled && eswHelper.getEnableHeaderBar()}”*>  <li class=*”menu-item dropdown country-selector d-md-none”*>  <isinclude url=*”${URLUtils.url(‘EshopWorld-GetEswHeader’)}”*/>  </li>  </isif> |

1.1.21 bundleDetails.isml

| Path |
| --- |
| /int\_eshopworld\_sfra/cartridge/templates/default/product/bundleDetails.isml |



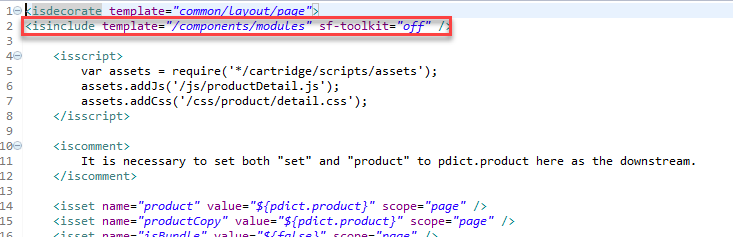
|  |
| --- |
| <isinclude template=*"/components/modules"* sf-toolkit=*"off"* /> |



|  |
| --- |
| <div class=*'esw-display-return-prohibited-message <isif condition="${!product.isReturnProhibited}"> d-none </isif>'*>  <iscontentasset aid=*"esw-display-return-prohibited-message"* />  </div> |

1.1.22 setDetails.isml

| Path |
| --- |
| /int\_eshopworld\_sfra/cartridge/templates/default/product/setDetails.isml |



|  |
| --- |
| <isinclude template=*"/components/modules"* sf-toolkit=*"off"* /> |



|  |
| --- |
| <div class=*'esw-display-return-prohibited-message <isif condition="${!product.isReturnProhibited}"> d-none </isif>'*>  <iscontentasset aid=*"esw-display-return-prohibited-message"* />  </div> |

1.1.23 paymentOptionsSummary.isml

| Path |
| --- |
| /int\_eshopworld\_sfra/cartridge/templates/default/checkout/billing/paymentOptions/paymentOptionsSummary.isml |



1.2 Customizing the controllers

1.2.1 Page.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/controllers/Page.js |

1.2.2 Cart.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/controllers/Cart.js |
| app\_storefront\_base\cartridge\controllers\Cart.js  In the base Cart.js, need to make following changes highlighted below in Cart-Show controller. |

Graphical user interface, text, application

Description automatically generated

1.2.3 Checkout.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/controllers/Checkout.js |

1.2.4 CheckoutServices.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/controllers/CheckoutServices.js |

1.2.5 Tile.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/controllers/Tile.js |

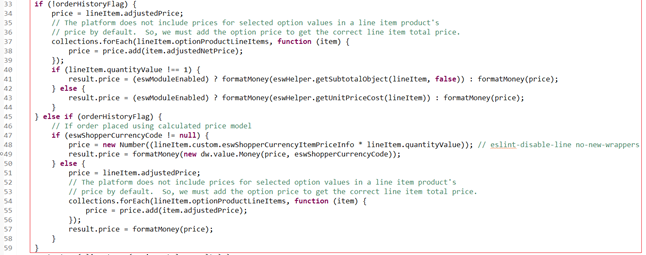
1.3 Customizing the models

1.3.1 priceTotal.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/models/productLineItem/decorators/priceTotal.js |



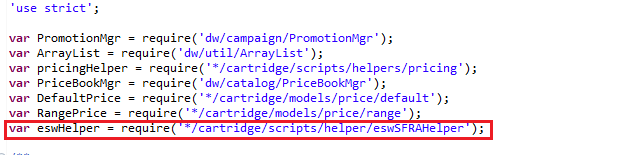
|  |
| --- |
| **var** eswHelper = require('\*/cartridge/scripts/helper/eswSFRAHelper'); |
| **var** orderHistoryFlag = **false**;  **var** eswShopperCurrencyCode = **null**;  **var** eswModuleEnabled = eswHelper.getEShopWorldModuleEnabled();  **if** (lineItem.lineItemCtnr && Object.hasOwnProperty.call(lineItem.lineItemCtnr, 'orderNo')) {  **if** (lineItem.lineItemCtnr.orderNo != **null**) {  orderHistoryFlag = **true**;  eswShopperCurrencyCode = lineItem.lineItemCtnr.originalOrder.custom.eswShopperCurrencyCode;  }  }  **if** (lineItem.priceAdjustments.getLength() > 0) {  **if** (orderHistoryFlag) {  result.nonAdjustedPrice = (eswShopperCurrencyCode != **null**) ? **new** Money(Number(lineItem.custom.eswUnitPrice \* lineItem.quantity.value), eswShopperCurrencyCode) : lineItem.getPrice();  } **else** {  **var** nonAdjustedPrice = (eswModuleEnabled) ? eswHelper.getMoneyObject(lineItem.basePrice, **false**, **false**).value \* lineItem.quantity.value : lineItem.getPrice();  result.nonAdjustedPrice = (eswModuleEnabled) ? **new** Money(nonAdjustedPrice, eswHelper.getCurrentEswCurrencyCode()) : nonAdjustedPrice;  }  } |



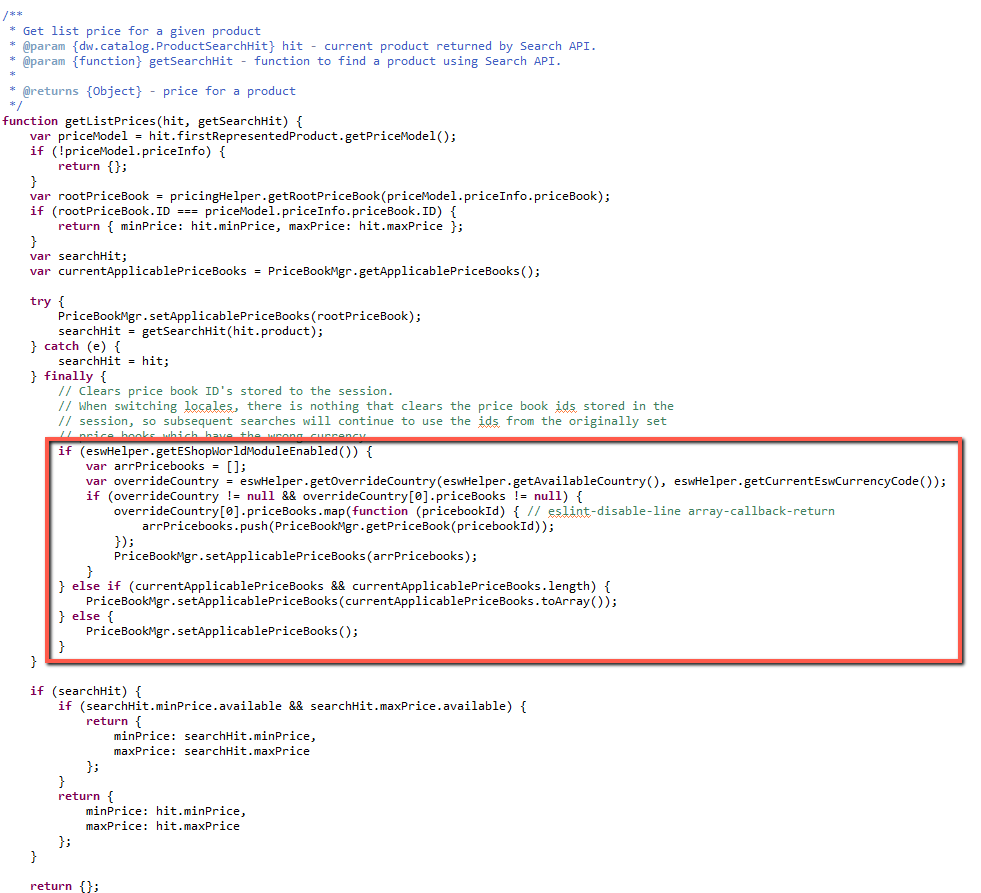
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| **if** (!orderHistoryFlag) {  price = lineItem.adjustedPrice;  // The platform does not include prices for selected option values in a line item product's  // price by default. So, we must add the option price to get the correct line item total price.  collections.forEach(lineItem.optionProductLineItems, **function** (item) {  price = price.add(item.adjustedNetPrice);  });  **if** (lineItem.quantityValue !== 1) {  result.price = (eswModuleEnabled) ? formatMoney(eswHelper.getSubtotalObject(lineItem, **false**)) : formatMoney(price);  } **else** {  result.price = (eswModuleEnabled) ? formatMoney(eswHelper.getUnitPriceCost(lineItem)) : formatMoney(price);  }  } **else** **if** (orderHistoryFlag) {  // If order placed using calculated price model  **if** (eswShopperCurrencyCode != **null**) {  price = **new** Number((lineItem.custom.eswShopperCurrencyItemPriceInfo \* lineItem.quantityValue)); // eslint-disable-line no-new-wrappers  result.price = formatMoney(**new** dw.value.Money(price, eswShopperCurrencyCode));  } **else** {  price = lineItem.adjustedPrice;  // The platform does not include prices for selected option values in a line item product's  // price by default. So, we must add the option price to get the correct line item total price.  collections.forEach(lineItem.optionProductLineItems, **function** (item) {  price = price.add(item.adjustedPrice);  });  result.price = formatMoney(price);  }  } |

1.3.2 searchPrice.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/models/product/decorators/searchPrice.js |



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| **var** eswHelper = require('\*/cartridge/scripts/helper/eswSFRAHelper'); |



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| **if** (eswHelper.getEShopWorldModuleEnabled()) {  **var** arrPricebooks = [];  **var** overrideCountry = eswHelper.getOverrideCountry(eswHelper.getAvailableCountry(), eswHelper.getCurrentEswCurrencyCode());  **if** (overrideCountry != **null** && overrideCountry[0].priceBooks != **null**) {  overrideCountry[0].priceBooks.map(**function** (pricebookId) { // eslint-disable-line array-callback-return  arrPricebooks.push(PriceBookMgr.getPriceBook(pricebookId));  });  PriceBookMgr.setApplicablePriceBooks(arrPricebooks);  }  } **else** **if** (currentApplicablePriceBooks && currentApplicablePriceBooks.length) {  PriceBookMgr.setApplicablePriceBooks(currentApplicablePriceBooks.toArray());  } **else** {  PriceBookMgr.setApplicablePriceBooks();  } |

1.3.3 base.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/models/product/decorators/base.js |

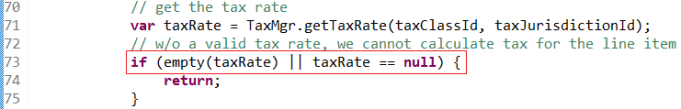
1.3.4 fullProduct.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/models/product/decorators/fullProduct.js |

1.4 Customizing the scripts and json

1.4.1 taxes.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/scripts/hooks/taxes.js |

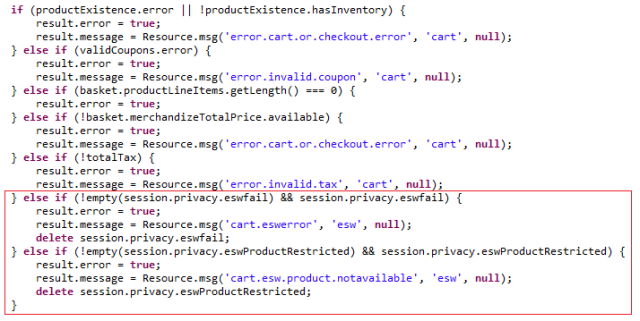


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| Important: You must include this file in your hooks.json file. |

1.4.2 validateBasket.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/scripts/hooks/validateBasket.js |

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| Important: You must include this file in your hooks.json file. |



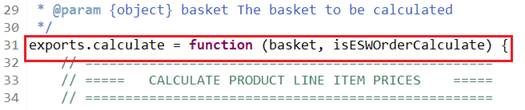
|  |
| --- |
| } **else** **if** (!empty(session.privacy.eswfail) && session.privacy.eswfail) {  result.error = **true**;  result.message = Resource.msg('cart.eswerror', 'esw', **null**);  **delete** session.privacy.eswfail;  } **else** **if** (!empty(session.privacy.eswProductRestricted) && session.privacy.eswProductRestricted) {  result.error = **true**;  result.message = Resource.msg('cart.esw.product.notavailable', 'esw', **null**);  **delete** session.privacy.eswProductRestricted;  } |

1.4.3 calculate.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/scripts/hooks/cart/calculate.js |

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| You must include this file in your hooks.json file. |







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| --- |
| **var** eswHelper = require('\*/cartridge/scripts/helper/eswHelper').getEswHelper(); |
| exports.calculate = **function** (basket, isESWOrderCalculate) { |
| **if** (!eswHelper.getEShopWorldModuleEnabled() || !isESWOrderCalculate) {  PromotionMgr.applyDiscounts(basket);  } |
| **if** (!eswHelper.getEShopWorldModuleEnabled() || !isESWOrderCalculate) {  PromotionMgr.applyDiscounts(basket);  } |

1.4.4 detail.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/client/default/js/product/detail.js |

1.4.5 quickView.js

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/client/default/js/product/quickView.js |

**1.4.6 orderHelpers.js**

| Path |
| --- |
| int\_eshopworld\_sfra/cartridge/scripts/order/orderHelpers.js |

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| Note: Customization to the following models is extended: fullProduct.js, productTile.js, productSet.js, productBundle.js, detail.js, quickView.js, default.js and total.js |