Order Summary Tax Inclusion

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# Objective

The objective of this customization is to show product price including the applicable tax instead of displaying the tax in a separate line on UX and the applicable shipping amount.

Below pages will be affected by this change:

* Checkout Page
* Order Confirmation Page
* Order Details Page

! Important Note This is just a temporary solution. Once the feature is released, need to revert all these customizations.

# Prerequisite

* SSK Module code need to be deployed and running.

Reference link: <https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/setup-dev-environment>

* Enable the switch in HQ for subtotals - ***IsUpdatedPriceIncludesTaxSubtotalCalculationdEnabled***. This will get the correct subtotals on Order summary and order details page.

Graphical user interface, application

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* Enable the switch in HQ for product price - ***PriceIncludesSalesTax***

This will get the product price including applicable taxes.

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* Hide **Taxes** line in Order Summary using CSS Override for the Checkout page, Order-summary page, and Order-details page. Refer **point-5** in below document to consume this sample code.

# Modules Definition Extension.

Need to extend module definitions for below modules to add a resource key-value for ’**Other Charges**’ label on UX.

* **Order Details Definition Extension**
* **Order Confirmation Definition Extension**

# Modules View Extension.

Need to extend below three views to add logic for displaying the product amount including tax amount along with applicable shipping charges in order summary section.

* **Checkout View Extension:**
* **Order Confirmation View Extension:**
* **Order Details View Extension:**

# Component Extension.

**cartlineitem.component:** Need to extend this shared component to add custom code that maps the data field for product amount that include tax.

# Steps to consume and test the sample code.

Please refer attached sample code files for all the code changes mentioned below:

1. Cartlineitem Component Extension**:** Go to the theme folder and extend *cartlineitem.component.tsx* (shared component).

**Option-1:** If cartlineitem.component is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, follow steps mentioned in option-2 to plug-in the required code to achieve the desired feature.

**Option-2**: If **partner** already extended, plug-in below code manually.

Change the data field mapping for price fields in \_*generateQuantityandPrice* function of *cartlineitem.component.tsx. (*Refer below code snippet*)*

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1. Checkout View Extension**:** Go to the theme folder and extend *checkout.view.tsx*.

**Option-1:** If checkout view is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, follow steps mentioned in option-2 to plug-in the required code to achieve the desired feature.

**Option-2**: If **partner** already extended, plug-in below code manually.

1. Create a function ***\_renderSubTotal*** to calculate/map and render the order subtotal amount. This function is called in OrderSummaryComponent for rendering the order subtotal amount.

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1. Create a function ***\_renderShipping*** to calculate/map and render the applicable shipping amount. This function is called in *OrderSummaryComponent* to render the shipping amount.

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***Note****: The renderShipping method will calculate the shipping price based on the HQ configuration for calculating the prorate charges for matching sales line.*

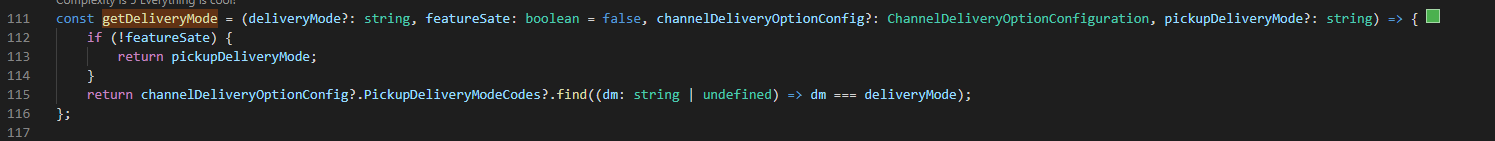
* If this configuration is on- it will execute the conditional block at line **126** in above screenshot that will consider chargelines at root/header level of the object.
* If this configuration is off- it will execute the conditional block at line **135**, where it considers chargelines under each cartline object to get the shipping amount.

Refer Microsoft documentation for this configuration for more details- ([Prorate header charges to matching sales lines - Commerce | Dynamics 365 | Microsoft Docs](https://docs.microsoft.com/en-us/dynamics365/commerce/pro-rate-charges-matching-lines))

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1. Create a function ***\_getDeliveryMode*** to check the shipping eligibility of product/order. This function is also called in *OrderSummaryComponent*



1. Replace ***OrderSummaryComponent*** function with below code.

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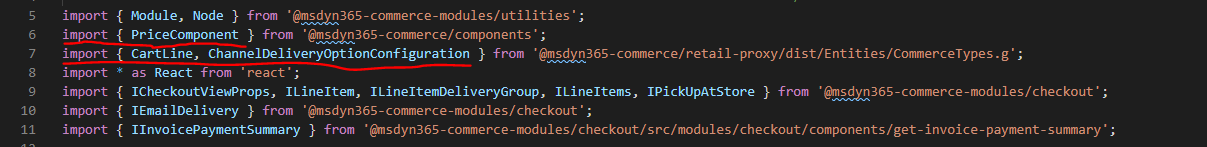
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1. Modify ***CheckoutView*** Function to add the highlighted code change.

A screenshot of a computer

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1. Need to add some references to resolve the build errors for missing imports.



1. Order Confirmation Definition Extension: Go to the theme folder and extend *order-confirmation.definition.ext.json.*

**Option-1:** If order confirmation definition is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, Add below resource in the definition extension file:

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1. Order Confirmation View Extension**:** Go to the theme folder and extend *order-confirmation.view.tsx.*

**Option-1:** If order confirmation view is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, follow steps mentioned in option-2 to plug-in the required code to achieve the desired feature.

**Option-2**: If **partner** already extended, plug-in below code manually.

1. Add an Interface: ***ISummaryLineProps***.

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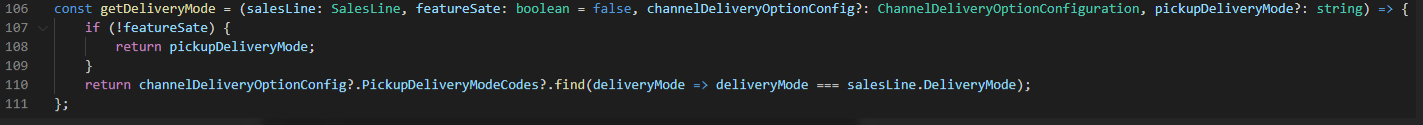
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1. Create a function ***priceContext***.A screen shot of a computer

   Description automatically generated with low confidence
2. Create a function ***shippingAmount*** that returns the order summary line for the shipping amount.

A computer screen capture

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1. Create a function ***\_getDeliveryMode*** to check the shipping eligibility of product/order 
2. Create a function ***OrderSummaryLine***.

Text

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1. Create a function ‘***renderOtherChargeAmount’***

Text

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1. Modify ***OrderConfirmationOrderSummary*** function to add/update highlighted code, for rendering the shipping amount.

Graphical user interface, text

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1. Add missing Imports to resolve build issues.

Text

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1. Order Details Definition Extension Go to the theme folder and extend *order-details.definition.ext.json.*

**Option-1:** If order details definition is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, Add below resource in the definition extension file:

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1. Order Details View Extension**:** Go to the theme folder and extend *order-details.view.tsx.*

**Option-1:** If order details view is not extended, extend it first.

**Ref:** [https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions](https://nam06.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.microsoft.com%2Fen-us%2Fdynamics365%2Fcommerce%2Fe-commerce-extensibility%2Ftheme-module-extensions&data=04%7C01%7Cv-srpas%40microsoft.com%7C422aafd5ed574b63a20808d92d16bbc6%7C72f988bf86f141af91ab2d7cd011db47%7C1%7C0%7C637590397940845613%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2F3iirUOaQCq7sSE2wikpst9mwzg2WIa9nnY2nGCrsiQ%3D&reserved=0)

Once extended, follow steps mentioned in option-2 to plug-in the required code to achieve the desired feature.

**Option-2**: If **partner** already extended, plug-in below code manually.

1. Add an Interface: ***ISummaryLineProps***.

Text

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1. Create a function ***priceContext***.A screen shot of a computer

   Description automatically generated with low confidence
2. Create a function ***shippingAmount*** that returns the order summary line for the shipping amount.

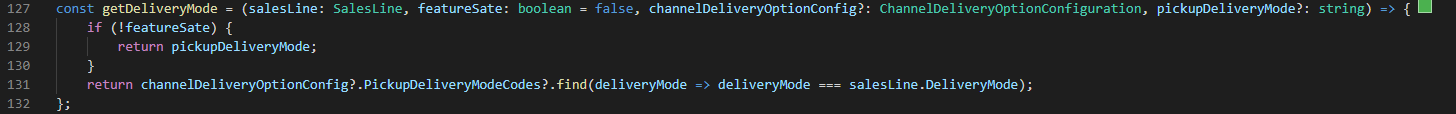
Text

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1. Create a function ***\_getDeliveryMode*** to check the shipping eligibility of product/order Add function.



1. Create a function ***OrderSummaryLine***.

Text

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1. Create a function ‘***renderOtherChargeAmount***’

Text

Description automatically generated

1. Modify ***OrderDetailsOrderSummary*** function to add/update highlighted code, for rendering the shipping amount.

A picture containing text, screenshot, screen

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1. Add missing Imports to resolve build issues.A screenshot of a computer

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1. Theme override: upload the attached css file for the site in authoring tool to override theme for hiding the tax lines from UX. Refer below steps for the same:

* Open site builder and select the site for which these changes are intended to.
* Navigate and select Site Settings tab from the left panel.
* Select Design tab. It will open below page.

Graphical user interface, text, application, email

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* Click on upload CSS file to browse and upload the attached css file.
* This will add the css file in available css overrides section. (refer below screenshot)

Graphical user interface, application

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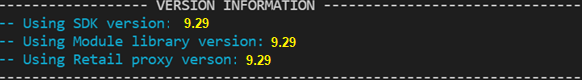
* Click ‘***Activate****’* button to activate the css override.

1. Build and test the changes: Once you are done with all the above code changes, you are good to go for testing. Execute *yarn build* from command line interface on your repository.
2. **Test the code changes:**

Execute *yarn start*.

Browse the local host 4000 port and navigate to checkout page after adding a product to see the UX. Refer below screenshot.

**Note**: The sample code is tested on below package version:

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# References for module/theme extensibility and deployment.

* **Extend a theme to add module extensions.**

<https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/theme-module-extensions>

* **Extend a theme from a base theme.**   
  <https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/extend-theme>
* **Clone a module library module.**

<https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/clone-starter-module>

* **package creation and deployment**

<https://docs.microsoft.com/en-us/dynamics365/commerce/e-commerce-extensibility/package-deploy>

* **pro rate charges matching sales lines**

[Prorate header charges to matching sales lines - Commerce | Dynamics 365 | Microsoft Docs](https://docs.microsoft.com/en-us/dynamics365/commerce/pro-rate-charges-matching-lines)