

Retail Point-of-Sale Financing

Fairstone Payment Extension

Magento PWA Configuration User Guide

Version 1.0

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CONTEXT

The Fairstone finance service payment extension has been built adhering to Magento best practice and is a classic Magento payment extension. It is built on standard Magento capabilities and features, to maximize compatibility to as many Magento 2.3 installations as possible.

The current configuration and user guide assumes that the Fairstone extension was installed and that the reader is familiar with Magento 2.3 and above. The plugin installation is described in another document.

It is assumed that the reader is in possession of or have access to all required credentials and keys for Fairstone onboarding.

It is assumed the payment extension is configurable in the Magento administration backend, and a specific entry point has been created in the right hand-side menu.

INTRODUCTION

The Fairstone payment connector is a privately distributed Magento connector. It interacts with the Fairstone Payment Gateway through a REST API to obtain the list of plans and to record the shopper's selection. Upon installation, the merchant must enter a key provided by Fairstone that uniquely identifies the merchant. That key must be stored on the platform to be retrieved and used during plan selection.

The connector is integrated within the online store by the merchant. Once configured, it is presented as a payment option at checkout. The connector then fetches the available payment plans for the merchant, order amount and language through the API. The payment plans and their product SKUs¹ are returned. This allows the app to fetch the admin fee to be charged for any plan selected by the shopper. Once selected, the invoice is modified to reflect the admin fee along.

Once the shopper confirms the payment plan and checks out, UI control is given to the Fairstone payment gateway. The shopper will authenticate, authorize and confirm the purchase. Upon completion, UI control is relinquished back to Magento. The payment gateway will return an authorization token used to uniquely identify the purchase. It will also send an asynchronous message through a webhook specified by the connector to provide the official status of the transaction.

¹ Mapping of SKUs is the responsibility of the Merchant and Fairstone.

1

ADMIN / FRONTEND SHOP CONFIGURATION

The administrator needs to login to the Magento administration interface as it is usually done.



Figure 1 Login to Admin panel

1.1 Manage fee

Once logged in, the administrator will see that standard Magento dashboard. If no Admin fee has been defined, an info message is displayed where admin can click on the “Create Fee” link and automatically be redirected to Admin management page:

Warning! Fairstone payment method will be available only in case when at least one administration fee will be created. Please create one. [Create Fee](#)

System Messages: 1

Dashboard

Scope: All Store Views [?](#)

Reload Data

Advanced Reporting

Gain new insights and take command of your business' performance, using our dynamic product, order, and customer reports tailored to your customer data.

Go to Advanced Reporting

Lifetime Sales
CA\$61.00

Chart is disabled. To enable the chart, click [here](#).

Revenue	Tax	Shipping	Quantity
CA\$0.00	CA\$0.00	CA\$0.00	0

Average Order
CA\$30.50

Last Orders

Customer Items Total

Bestsellers Most Viewed Products New Customers Customers Yotpo Review

Figure 2 Dashboard Validation message

To manage fee admin should go to Fairstone tab > Manage fee:

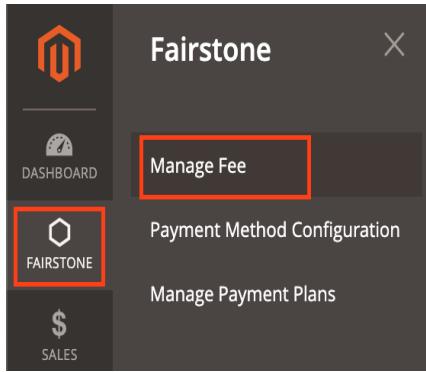


Figure 3 Manage Fee tab

1.1.1 Add/edit/delete admin fee

There are 4 required fields on the Fee management page:

- English Admin Fee Name
- French Admin Fee Name
- Admin Fee without taxes
- Plan Payment SKU
- Tax Class (Section 5)

A screenshot of the Fee Management page in the Fairstone application. The page has a sidebar with various navigation options like DASHBOARD, FAIRSTONE, SALES, CATALOG, CUSTOMERS, MARKETING, CONTENT, REPORTS, and STORES. The FAIRSTONE option is selected. The main content area is titled 'Fee Management'. At the top right, there is a search icon, a notification bell, and a user profile. Below the title is a large orange button labeled 'Add a new fee'. Underneath the button are 'Filters' and 'Columns' buttons. A message '2 records found' is displayed. The main part of the screen is a table listing two admin fees. The table columns are: ID, English Admin Fee Name, French Admin Fee Name, Admin Fee without taxes, Plan Payment SKU, Tax Class, and Action. The first record (ID 5) has values: Admin fee EN1, Admin fee FR1, 5.00, adminFeeSku1,adminFeeSku2,adminFeeSku3, Taxable Goods, and 'Select'. The second record (ID 6) has values: Admin fee EN1, Admin fee FR2, 10.00, adminFeeSku4, adminFeeSku5, adminFeeSku6, Taxable Goods, and 'Select'. At the bottom of the page, there is a copyright notice 'Copyright © 2020 Magento Commerce Inc. All rights reserved.' and a footer with 'Magento ver. 2.4.1', 'Privacy Policy', and 'Report an Issue'.

Figure 4 Fee Management page

To add fee, admin should click on the “Add a new fee” button, fill out all fields and save:

New Fee

Fee configuration

English Admin Fee Name *

Name of the fee in English

French Admin Fee Name *

Name of the fee in French

Admin Fee without taxes *

Enter the amount of additional admin fee (f.e.12.29)

Plan Payment SKU *

SKU which will be received from Fairstone API with credit plans

Tax Class

Taxable Goods

Back Save Fee

Figure 5 New Fee page

To delete and/or edit Admin fee admin can select option on Fee management table for specific Admin fee:

The screenshot shows the 'Fee Management' page in the Magento Admin interface. The left sidebar contains links for Dashboard, Fairstone, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main content area is titled 'Fee Management' with a search bar and user info. A red button 'Add a new fee' is at the top right. Below it are 'Filters' and 'Columns' buttons. A message '2 records found' is displayed. The table lists two records:

ID	English Admin Fee Name	French Admin Fee Name	Admin Fee without taxes	Plan Payment SKU	Tax Class	Action
5	Admin fee EN1	Admin fee FR1	5.00	adminFeeSku1,adminFeeSku2,adminFeeSku3	Taxable Goods	Select
6	Admin fee EN1	Admin fee FR2	10.00	adminFeeSku4, adminFeeSku5, adminFeeSku6	Taxable Goods	Edit

A context menu is open over the first row (ID 5), showing 'Select', 'Edit', and 'Delete' options. At the bottom, there's a copyright notice and links for Magento ver. 2.4.1, Privacy Policy, and Report an Issue.

Figure 6 Edit/Delete Fee

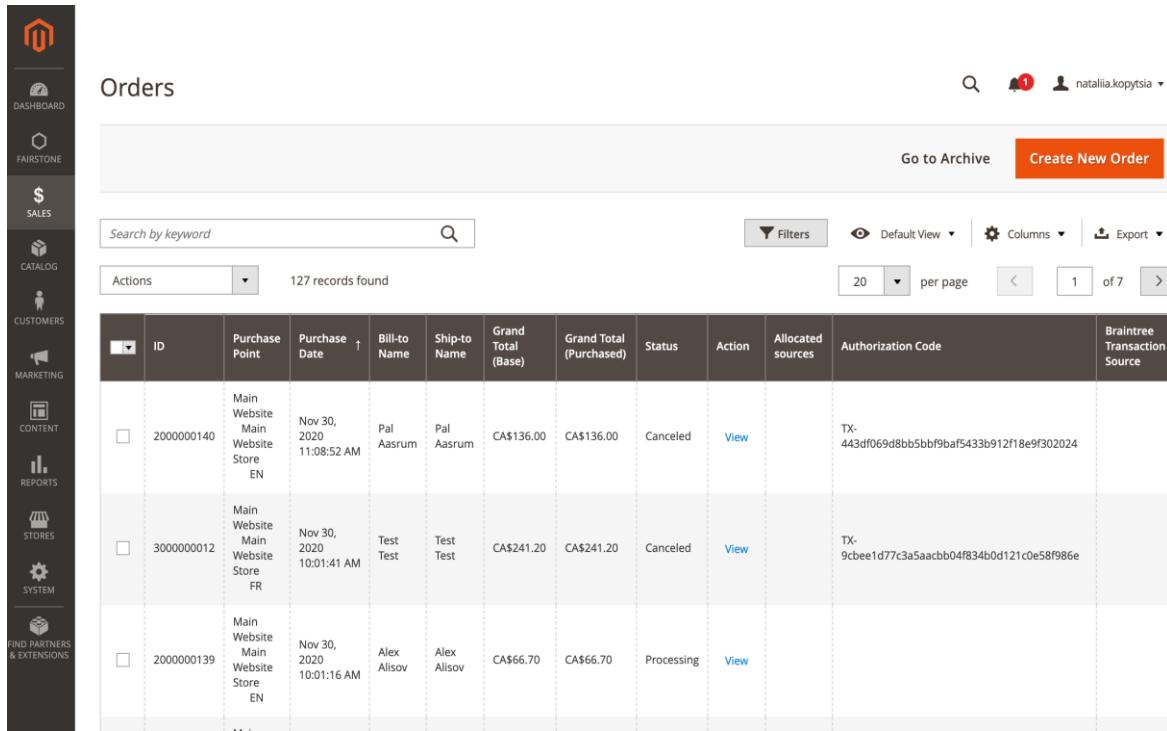
Admin Fee can have several Plan Payment SKUs:

This screenshot shows the same 'Fee Management' page as Figure 6, but with a red underline highlighting the 'Plan Payment SKU' column for the first record (ID 5). The rest of the interface and data are identical to Figure 6.

Figure 7 Admin Fee. Plan Payment SKU

After a user selects the Fairstone payment method, choose an appropriate plan at the payment page on FE, the authorization code from Fairstone is assigned to the user.

To verify the Fairstone authorization code, navigate to Admin > Sales > Order > column “authorization code”:



The screenshot shows the Fairstone Admin interface for managing orders. On the left, a sidebar lists various modules: DASHBOARD, FAIRSTONE, SALES, CATALOG, CUSTOMERS, MARKETING, CONTENT, REPORTS, STORES, SYSTEM, and FIND PARTNERS & EXTENSIONS. The main area is titled "Orders" and displays a grid of 127 records found. The columns include: Actions, ID, Purchase Point, Purchase Date, Bill-to Name, Ship-to Name, Grand Total (Base), Grand Total (Purchased), Status, Action, Allocated sources, Authorization Code, and Braintree Transaction Source. The "Authorization Code" column is highlighted in blue, indicating it is the current focus. The "Status" column shows entries like "Canceled" and "Processing". The "Action" column contains links such as "View". The "Braintree Transaction Source" column shows unique transaction IDs for each order.

Actions	ID	Purchase Point	Purchase Date	Bill-to Name	Ship-to Name	Grand Total (Base)	Grand Total (Purchased)	Status	Action	Allocated sources	Authorization Code	Braintree Transaction Source
<input type="checkbox"/>	2000000140	Main Website Main Website Store EN	Nov 30, 2020 11:08:52 AM	Pal Aasrum	Pal Aasrum	CA\$136.00	CA\$136.00	Canceled	View		TX-443df069d8bb5bbf9baf5433b912f18e9f302024	
<input type="checkbox"/>	3000000012	Main Website Main Website Store FR	Nov 30, 2020 10:01:41 AM	Test Test	Test Test	CA\$241.20	CA\$241.20	Canceled	View		TX-9cbee1d77c3a5aacbb04f834b0d121c0e58f986e	
<input type="checkbox"/>	2000000139	Main Website Main Website Store EN	Nov 30, 2020 10:01:16 AM	Alex Alisov	Alex Alisov	CA\$66.70	CA\$66.70	Processing	View			

Figure 8 Orders. Authorization code column

To view Notes for an order (authorization code and payment status), the administrator should click on the action “View” (see Figure 8)

The screenshot shows the Fairstone Admin interface for an order with ID #2000000140. The left sidebar includes links for Dashboard, Fairstone, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main content area displays the Order Total and Notes for this Order. The Notes section shows the Status as Canceled and a Comment field. Below the comment field are two checkboxes: 'Notify Customer by Email' and 'Visible on Storefront', followed by a 'Submit Comment' button. The Order Totals section provides a breakdown of charges:

Order Totals	
Subtotal	CA\$120.00
Admin fee EN1	CA\$5.00
Shipping & Handling	CA\$5.00
Total Tax	CA\$6.00
Grand Total	CA\$136.00
Total Paid	CA\$0.00
Total Refunded	CA\$0.00
Total Canceled	CA\$136.00

Below the totals, there are two log entries:

- Nov 30, 2020 11:09:41 AM | Processing | Customer **Not Notified**
Authorization code from payment gateway: TX-443df069d8bb5bbf9ba5433b912f18e9f302024
Payment status: failed
- Nov 30, 2020 11:08:52 AM | Processing | Customer **Not Notified**
Authorized amount of CA\$136.00.

Figure 9 Order's Comments

If the Fairstone payment method has not been properly configured with the authorization code, the Authorization code will not be displayed in Admin > Sales > Order > column “authorization code”.

1.2 Manage permissions for admin fee administration and configuration.

To add restrictions for managing fee admin can create new user roles with specific permissions. The admin should navigate to the System > User roles:

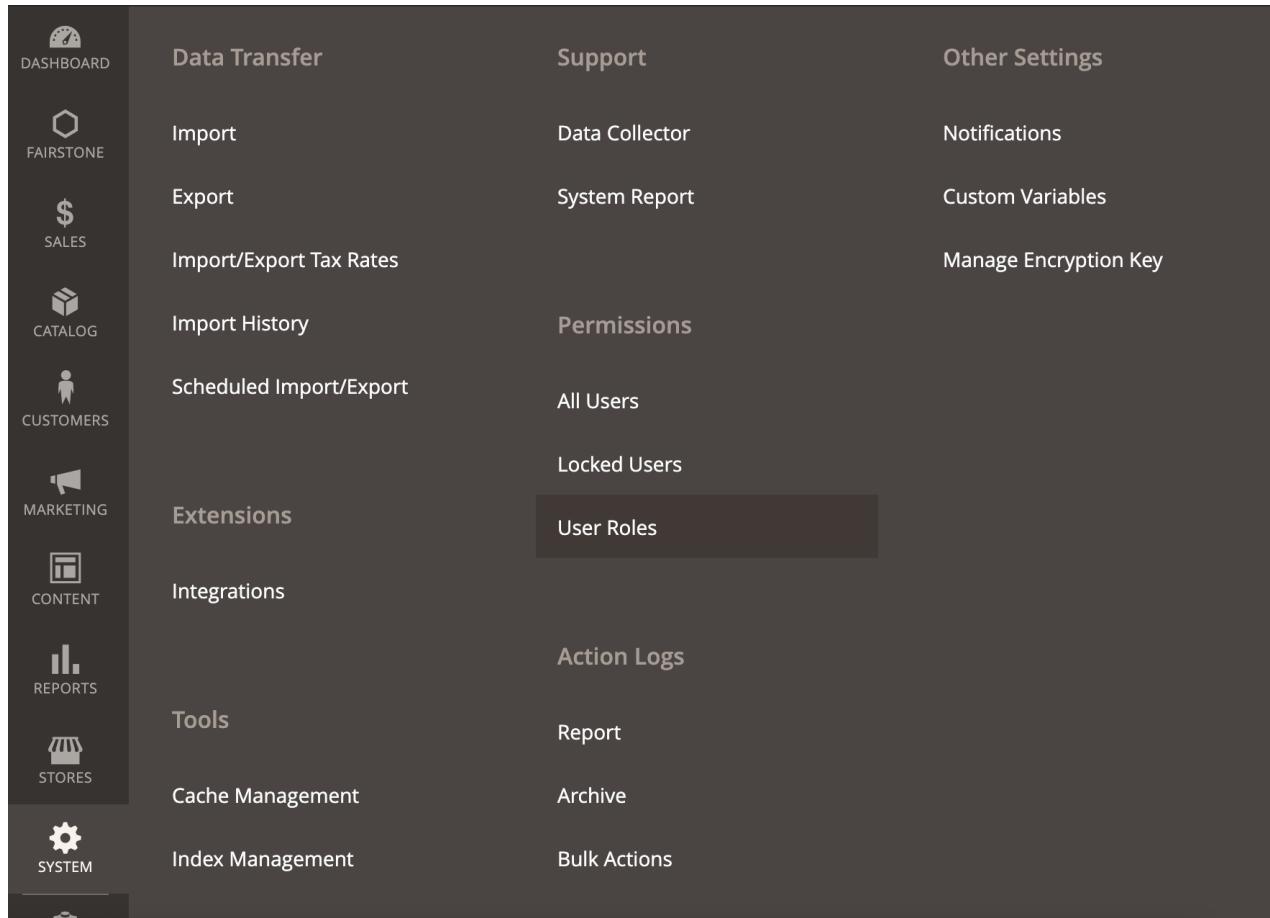


Figure 10 Admin Fee. User Role

To add a new role, the admin must click on the “Add new role” > Fill name > Role Resources > Custom > Fairstone.

The following are the default permissions available:

- Fairstone (active/disabled Fairstone tab)
 - Manage Admin Fee (add/update/delete)
 - Save and Update Admin Fee
 - Delete Admin Fee
 - View Admin Fee (only view data grid with Admin fees)
 - Manage payment Plan
 - Save and update Payment Plan
 - Delete Payment Plan
 - View Payment Plans
 - Configure Calculator

Fairstone Retail Procedures

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Figure 11 Admin Fee. Roles Resources

If no permissions have been selected, a corresponding information / error message will be shown to the administrator user, should s/he try to access the Fairstone tab in the dashboard. See Figure 12 below.

Figure 12 Not access page

Fairstone Retail Procedures

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1.3 Frontend Behavior. Manage Fee

When the user selects Payment plan – the system implicitly selects the corresponding SKU. When the user selects the Payment plan in the Shop FE, the server searches for the Admin fee with the corresponding SKU. Subsequently, the shop FE displays the Admin fee to the users in the Order Summary section. Details on Taxes and configuration of these for the Admin fee is described in Section 5.

The screenshot shows a storefront interface with the LUMA logo at the top left. At the top right, there is a welcome message "Welcome, Natalia Kopytsia!" and a language selector "EN". Below the header, there is a search bar with placeholder text "Search entire store here..." and a shopping cart icon showing "5" items.

The main content area has a breadcrumb navigation: "Shipping" and "Review & Payments".

Payment Method:

- Check / Money order
- Fairstone

Details of plan selected:
Buy Now. Pay Later
Pay CA\$0.00/month for 9 months at 0% Promo APR
[SELECT ANOTHER PLAN](#)

Order Summary:

Cart Subtotal	CA\$240.00
Admin fee EN1	CA\$5.00
Discount	-CA\$48.00
Shipping	CA\$25.00
Flat Rate - Fixed	
Tax	CA\$19.20 ▾
Order Total Incl. Tax	CA\$241.20
Order Total Excl. Tax	CA\$222.00

5 Item in Cart ▾

Ship To: Test Test

Place Order

Figure 13 Admin Fee on the Payment page

2 PAYMENT METHOD CONFIGURATION

To manage the Payment method configuration, the admin needs to access the Fairstone tab > Payment method Configuration:

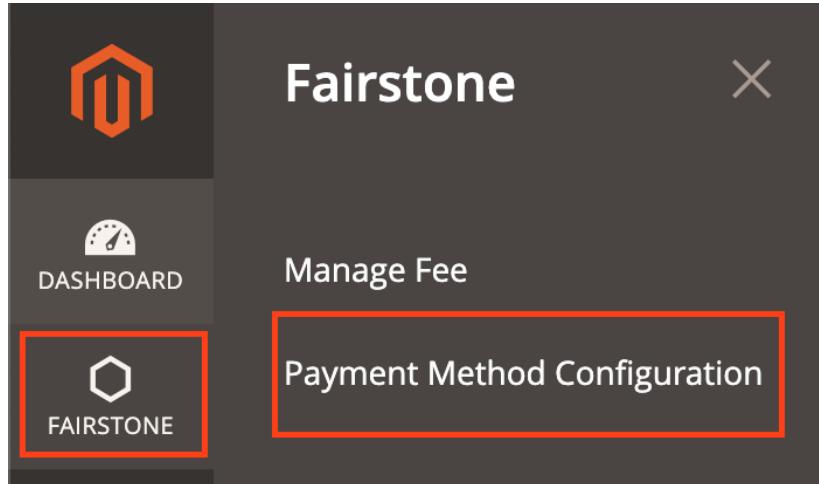
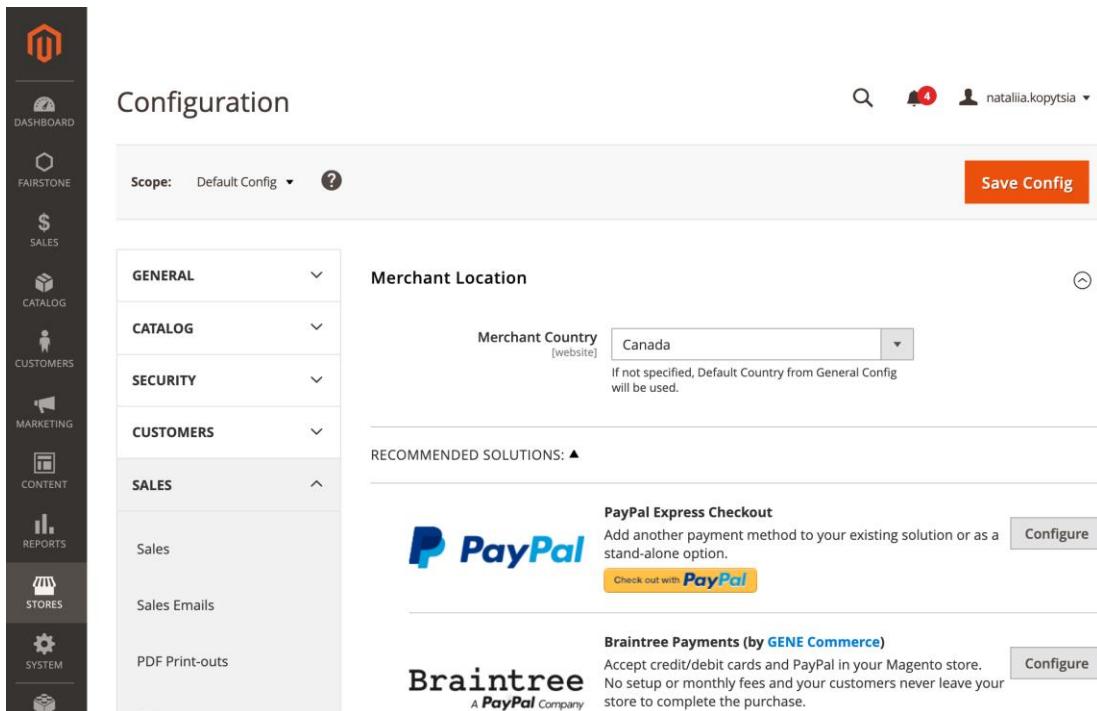


Figure 14 Payment Method Configuration

Alternatively, the admin can access via :

- navigate to the Stores > Configuration > Sales > Payment Methods > Fairstone:



The screenshot shows the "Configuration" screen in the Magento 2 Admin Panel. The left sidebar includes icons for Dashboard, FAIRSTONE (highlighted with a red box), Sales, Catalog, Customers, Marketing, Content, Reports, Stores, and System. The main content area has a "Scope: Default Config" dropdown and a "Save Config" button. A "GENERAL" section is expanded, showing "CATALOG", "SECURITY", "CUSTOMERS", and "SALES". The "SALES" section is expanded, showing "Sales", "Sales Emails", and "PDF Print-outs". To the right, the "Merchant Location" section is shown, with "Merchant Country (website)" set to "Canada". A note says "If not specified, Default Country from General Config will be used." Below this, a "RECOMMENDED SOLUTIONS:" section lists "PayPal Express Checkout" (with a PayPal logo and a "Configure" button) and "Braintree Payments (by GENE Commerce)". The Braintree section includes a note: "Accept credit/debit cards and PayPal in your Magento store. No setup or monthly fees and your customers never leave your store to complete the purchase." Both sections have a "Configure" button.

Figure 15 Fairstone payment method configuration

To activate Fairstone Payment Method on FE Shop, the admin user needs to complete the following :

- Enabled Fairstone Payment - Yes
- Choose Environment (Staging or Production)
- Merchant Key, Merchant Hash, Secret
- Click on the “Text Connection” button

The admin user can also change the name of Payment Method in the Title field:

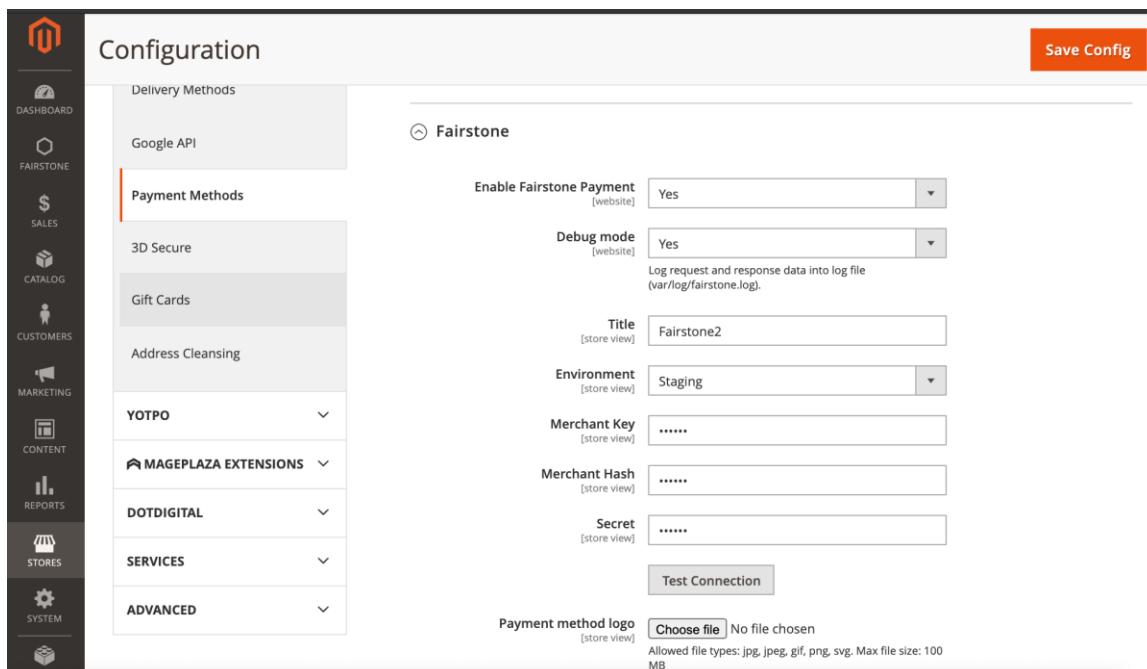


Figure 16 Merchant connection configuration

Should the Merchant Key, Merchant Hash, Secret not be specified or not be valid / correct, the following message will be displayed in the dashboard:

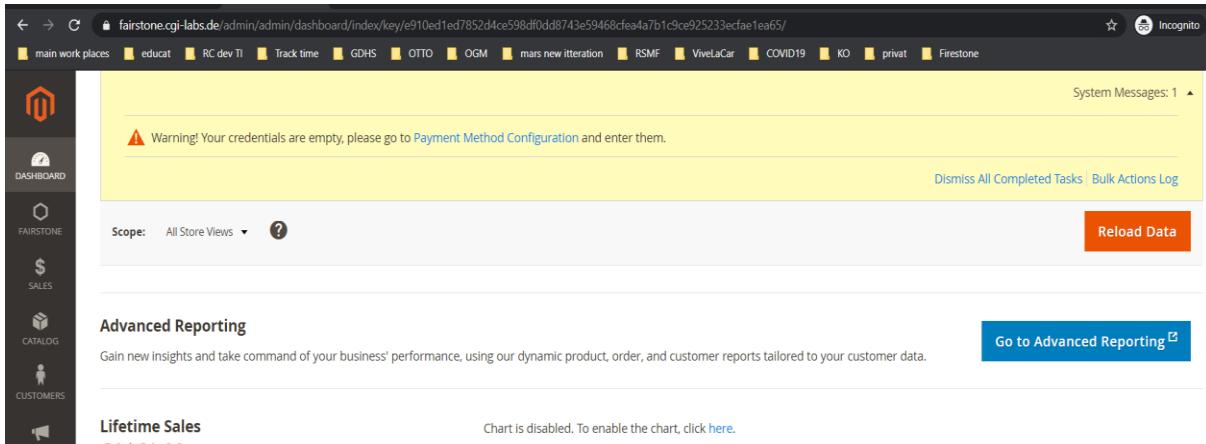


Figure 17 Inform message related to Payment Method Configuration

By following the link *Payment Method Configuration*, the Admin can update the Fairstone credentials.

2.1 Frontend Behavior. Payment Method

A customer user accesses the merchant shop via the merchant domain. A customer may be offered to create a shopping user with the merchant, in which case they are prompted to sign-up for this. This is likely to not be a mandatory step.

The screenshot shows the LUMA customer login page. At the top, there is a header with a search bar ("Search entire store here...") and a cart icon. Below the header, there are links for "What's New", "Women", "Men", "Gear", "Training", "Sale", and "Gift Cards". The main section is titled "Customer Login". It has two columns: "Registered Customers" and "New Customers". In the "Registered Customers" column, there is a form for entering an email address ("Email *") with the value "nataliiaikopytsia@gmail.com" and a password field ("Password *"). Below the password field are "Sign In" and "Forgot Your Password?" buttons. In the "New Customers" column, there is a "Create an Account" button. At the bottom of the page, there is a note: "* Required Fields".

Figure 18 Login or create a merchant shop user

If configured, a Fairstone payment plan is teaser on the eligible products on the Product listing page and the Product detail page:

The screenshot shows a search results page for 'Overnight Duffle' on the LUMA website. At the top, there's a navigation bar with links for 'What's New', 'Women', 'Men', 'Gear', 'Training', 'Sale', and 'Gift Cards'. Below the navigation is a breadcrumb trail: 'Home > Search results for: 'Overnight Duffle''. The main heading is 'Search results for: 'Overnight Duffle''. There are sections for 'Compare Products' (with a note: 'You have no items to compare.'), 'Did you mean' (with a suggestion: 'overnight duffel'), and 'My Wish Lists' (with a note: 'You have no items in your wish list.'). Below these are four product cards for different bags:

- Overnight Duffle**: CA\$45.00, Pay as low as \$4.83/month
- Impulse Duffle**: CA\$74.00, Pay as low as \$6.35/month
- Joust Duffle Bag**: CA\$34.00, Pay as low as \$3.85/month
- Wayfarer Messenger Bag**: CA\$45.00, Pay as low as \$4.83/month

Figure 19 Payment Calculator on PLP

Placed in the cart, the customer will be presented with the option to select Fairstone as payment option, in the checkout process. :

The screenshot shows a product detail page for the 'Overnight Duffle' bag on the LUMA website. At the top, there's a navigation bar with links for 'What's New', 'Women', 'Men', 'Gear', 'Training', 'Sale', and 'Gift Cards'. Below the navigation is a breadcrumb trail: 'Home > Gear > Bags > Overnight Duffle'. The main heading is 'Overnight Duffle'. Below it is a sub-heading 'Be the first to review this product'. The price is listed as 'CA\$45.00' with a note: 'Pay as low as \$4.83/month for 12 months'. To the right, there's a 'IN STOCK' status and 'SKU#: 24-WB07'. Below the price, there's a 'Qty' input field set to '3' and a large blue 'Add to Cart' button. At the bottom of the page, there are links for 'ADD TO WISH LIST' and 'ADD TO COMPARE'.

Figure 20 Payment calculator on PDP

Once in the checkout process, the user may choose a Fairstone Payment plan by ...:

- Choose Fairstone

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- Choose a Plan
- Place order

The screenshot shows the LUMA checkout process at the 'Review & Payments' step. On the left, under 'Payment Method', 'Fairstone' is selected as the payment method. Below it, there's a checkbox for 'My billing and shipping address are the same' which is checked. The shipping address is listed as: Joe Doe, 145 Green, Montreal, Quebec J4H3X1, Canada, 514-971-1970. There are two buttons: 'Select a Fairstone Plan' and 'Place Order'. On the right, the 'Order Summary' table provides a breakdown of the order costs:

Order Summary	
Cart Subtotal	CA\$350.00
Discount	-CA\$63.60
Shipping	CA\$35.00
Tax	CA\$14.32 ▾
Order Total Incl. Tax	CA\$335.72
Order Total Excl. Tax	CA\$321.40
7 Items in Cart ▾	

Figure 21 Fairstone payment selected on checkout page

This screenshot shows a modal dialog from Fairstone titled 'Select the financing plan that best suits your needs'. It states '(Only available for existing Fairstone retail financing account holders)'. The dialog lists three financing options, each with a monthly payment of '\$24^{\$}' for a '12 Months' period with '0.0%' interest. The options are labeled 'Plan Name'.

PROMO PERIOD	PROMO APR
\$24 ^{\$} Per month	12 Months 0.0% *Certain conditions apply
\$24 ^{\$} Per month	12 Months 0.0% *Certain conditions apply
\$24 ^{\$} Per month	12 Months 0.0% *Certain conditions apply

Figure 22 List of payment plans

Depending on which Fairstone Payment Plan was selected, the corresponding Admin fee is displayed in the Order Summary block:

Welcome, Natalia Kopytsia! EN

LUMA

Shipping Review & Payments

Payment Method

Check / Money order

Fairstone

My billing and shipping address are the same

Test Test
test421424, test421424, test421424
Canada, Saskatchewan SK-S7L3T4
Canada
+380505841531

Details of plan selected:
Buy Now. Pay Later
Pay **CA\$0.00/month** for **9 months** at **0% Promo APR**

[SELECT ANOTHER PLAN](#)

Place Order

Order Summary	
Cart Subtotal	CA\$240.00
Admin fee EN1	CA\$5.00
Discount	-CA\$48.00
Shipping	CA\$25.00
Flat Rate - Fixed	
Tax	CA\$19.20 ▾
Order Total Incl. Tax	CA\$241.20
Order Total Excl. Tax	CA\$222.00
5 Item in Cart ▾	

Ship To:

Test Test

Figure 23 Admin Fee for the selected Payment Plan

When the customer confirms the purchase intention, by placing the order, s/he is redirected to the Fairstone payment gateway and corresponding process. The below is included for completeness and is not functionality in scope of or managed via the Magento Fairstone payment extension.

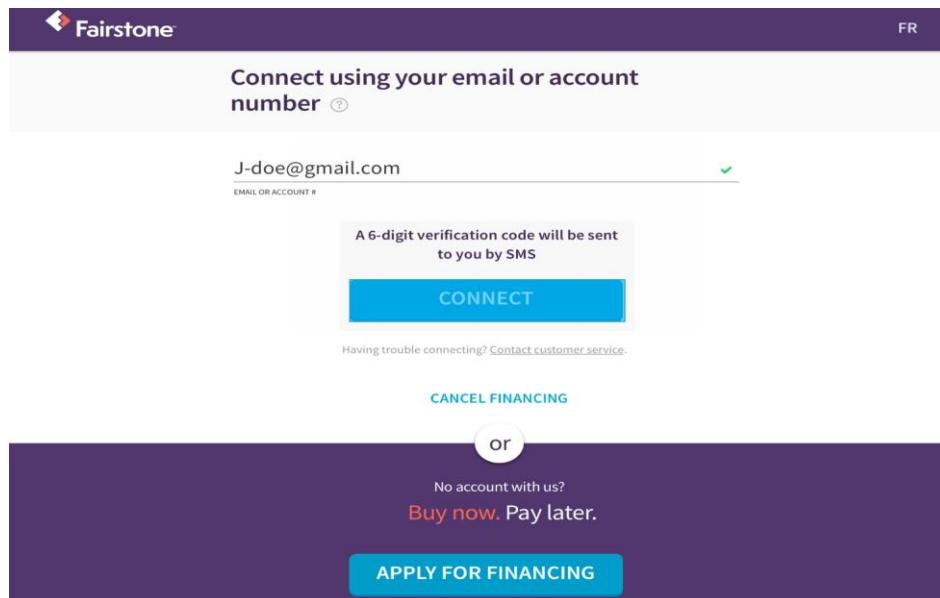


Figure 24 Redirect to Fairstone side

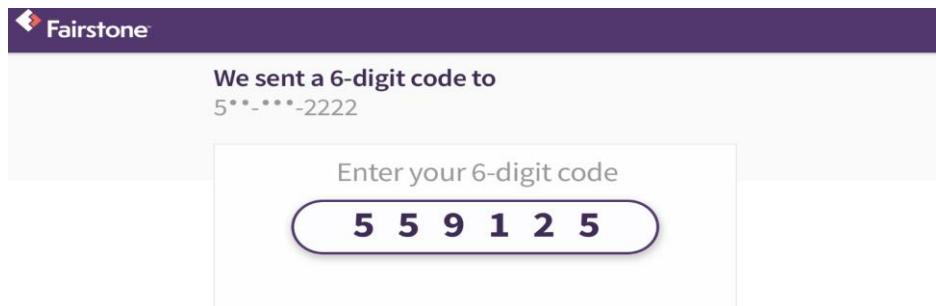
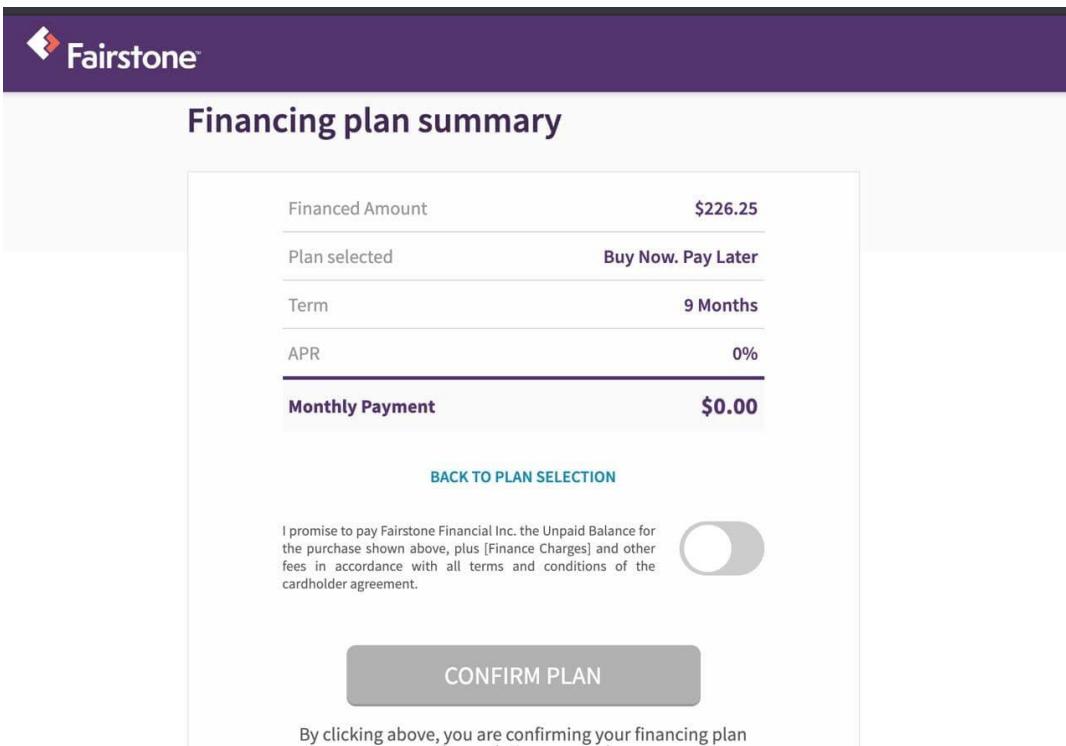


Figure 25 Validation Code



The screenshot shows the Fairstone Financing Plan Summary page. At the top, the Fairstone logo is displayed. Below it, the title "Financing plan summary" is centered. A table provides details of the selected financing plan:

Financed Amount	\$226.25
Plan selected	Buy Now. Pay Later
Term	9 Months
APR	0%
Monthly Payment	\$0.00

Below the table is a link "BACK TO PLAN SELECTION". To the right is a toggle switch, which is currently off. A note below the switch states: "I promise to pay Fairstone Financial Inc. the Unpaid Balance for the purchase shown above, plus [Finance Charges] and other fees in accordance with all terms and conditions of the cardholder agreement." A large "CONFIRM PLAN" button is centered at the bottom of the summary section.

Figure 26 Financing plan summary

Following successful payment confirmation, Fairstone re-directs back to the merchant magento store, showing the merchants confirmation page.

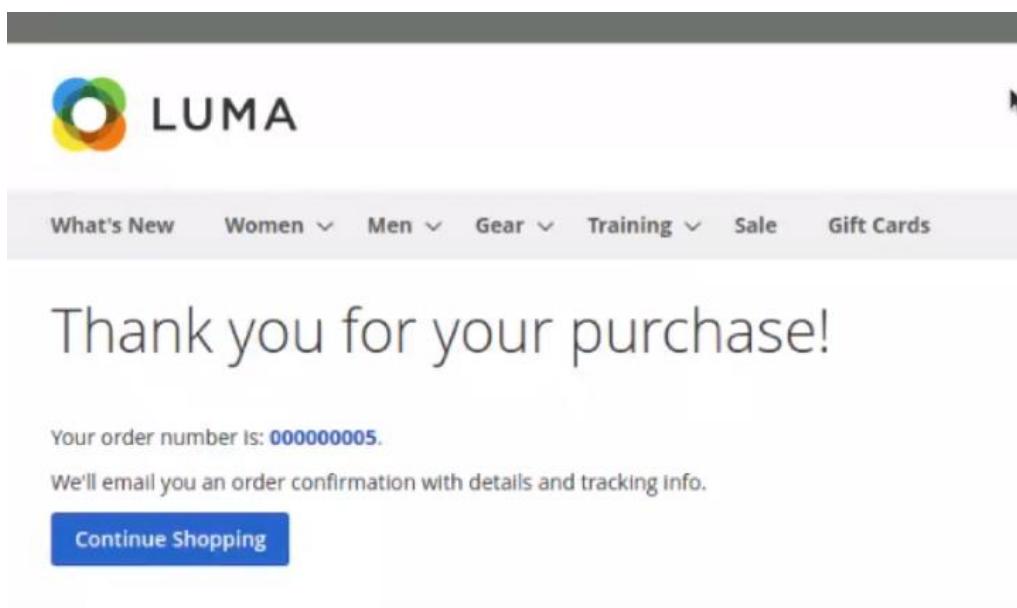


Figure 27 Successful order page

2.2 Upload Merchant logos

It is possible to customize the merchant+Faristone payment method logs. To upload logos, the admin user navigates to:

- Admin > Fairstone > Payment Method Configuration

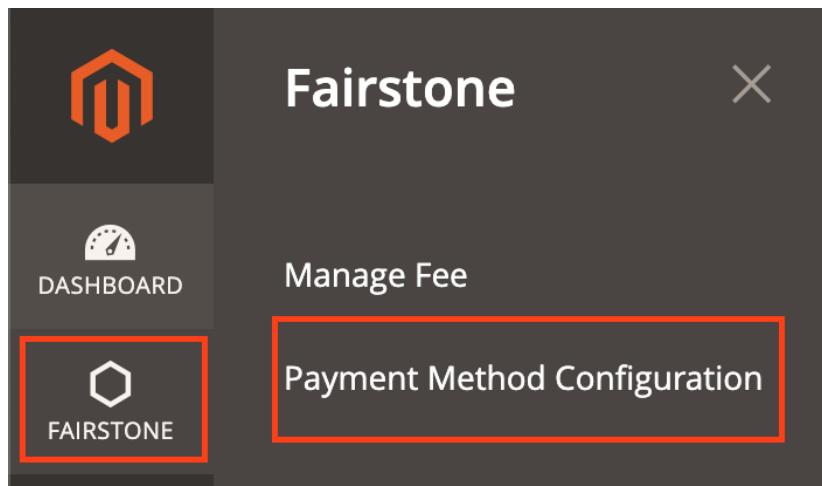


Figure 28 Payment Method Configuration tab

- Scope > Default Config

⚠ One or more of the Cache Types are invalidated: Configuration, Page Cache. Please go to [Cache Management](#) and refresh cache types. System Messages: 1 ▾

Configuration

Scope: Default Config ▾ ?

Default Config

Main Website

Main Website Store

EN

FR

FAIRSTONE Stores Configuration

Save Config

DASHBOARD FAIRSTONE SALES CATALOG CUSTOMERS MARKETING CONTENT REPORTS STORES SYSTEM

Merchant Location

GENERAL CATALOG SECURITY CUSTOMERS SALES

Merchant Country [website] Canada

If not specified, Default Country from General Config will be used.

RECOMMENDED SOLUTIONS: ▲

PayPal Express Checkout

Add another payment method to your existing solution or as a stand-alone option.

Check out with PayPal Configure

Figure 29 Configuration for specific website store

- Fairstone > Payment method logo:

To upload a new logo, the user admin clicks on the “Choose file” button, followed by “Save config”.

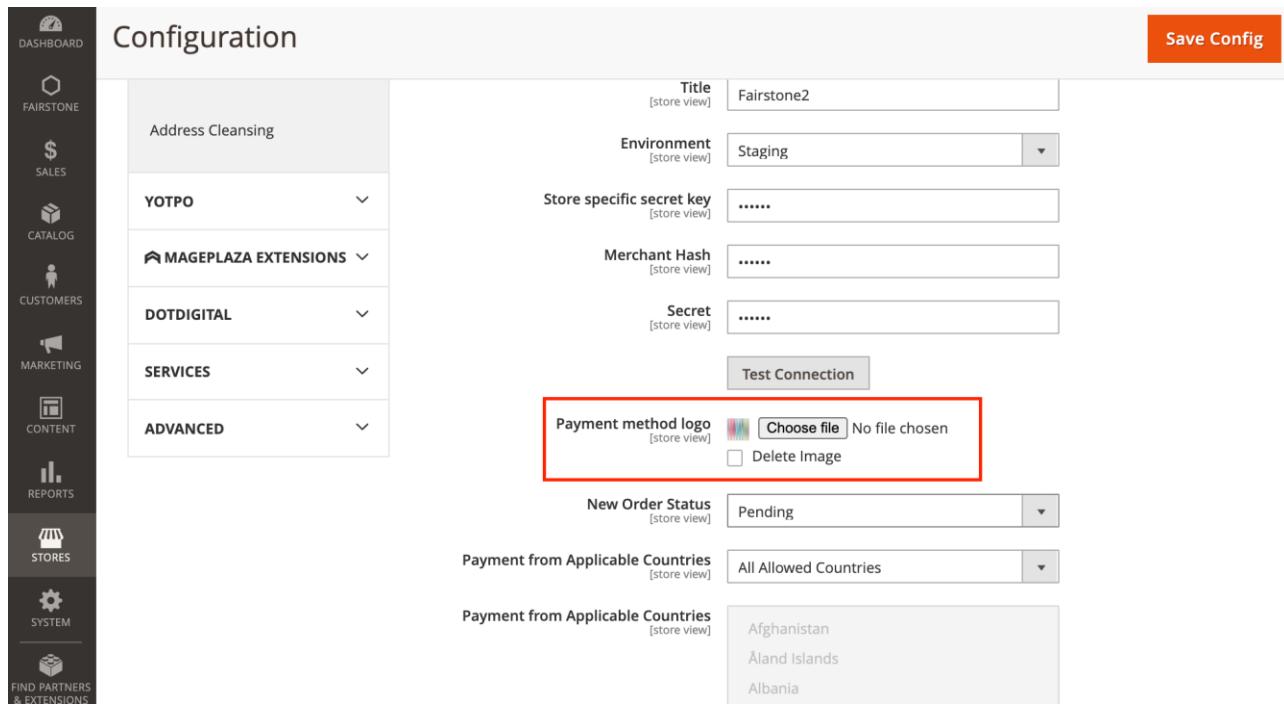


Figure 30 Payment method logo configuration

The system should now show the new logos in the Shop frontend, e.g. as illustrated below, in the Checkout:

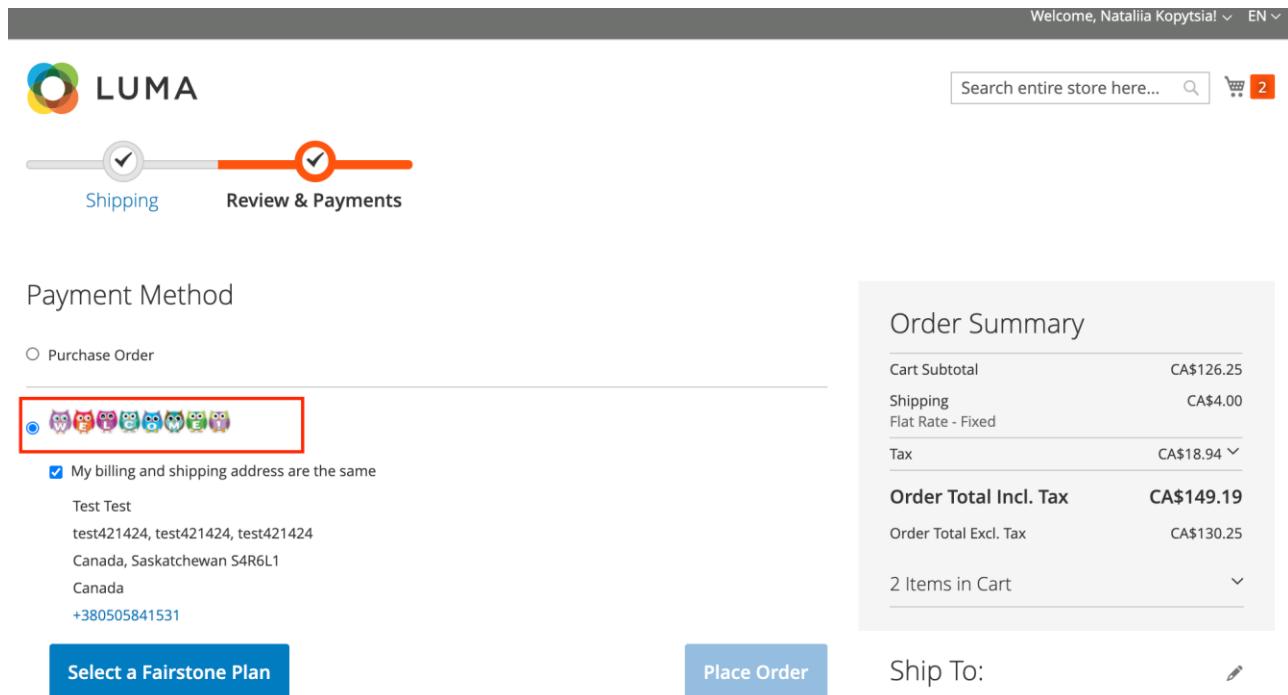


Figure 31 Payment logo on FE shop

To delete a custom logo, the admin user simply checks the “Delete image” checkbox and confirms with “Save config”:

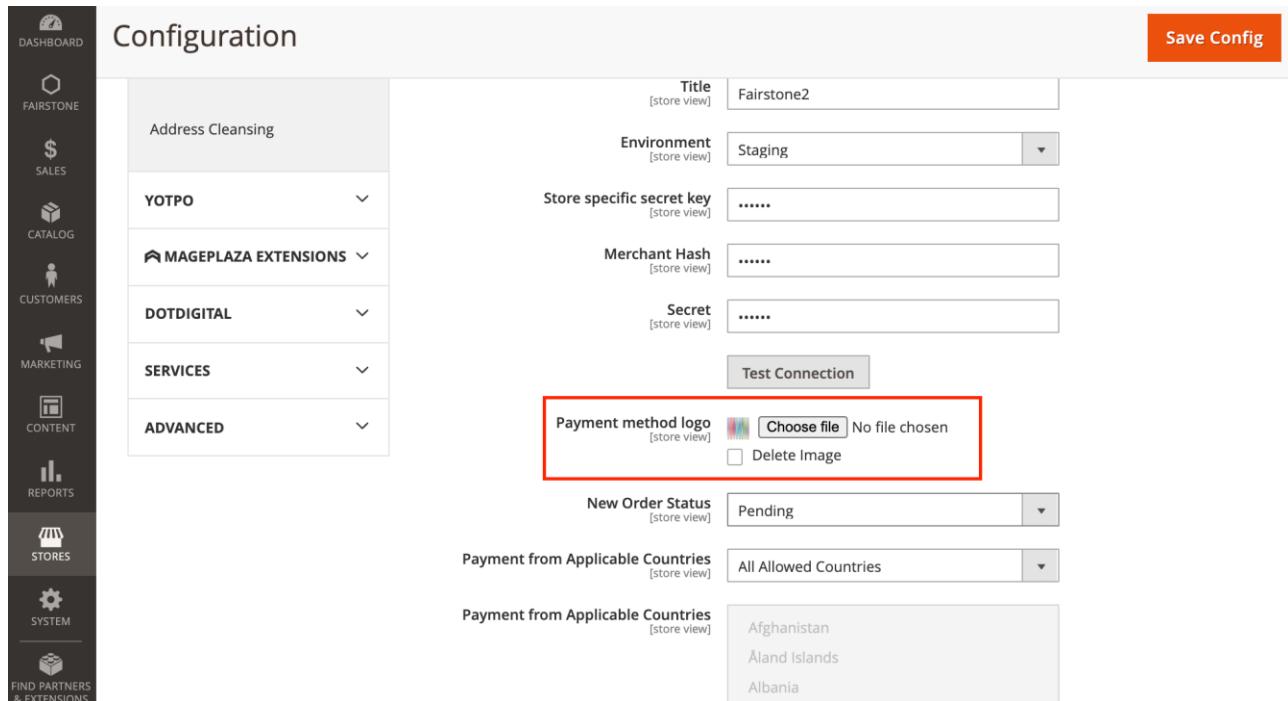


Figure 32 Deletion Payment Method logo

If there are no custom logos, the default Fairstone logo will be displayed on FE Shop Checkout:

The screenshot shows a storefront interface for 'LUMA'. At the top, there's a dark header bar with 'Welcome, Natalia Kopytsia! EN'. Below it is a navigation bar with a search bar ('Search entire store here...'), a shopping cart icon ('2'), and other links. The main content area shows a progress bar with two steps: 'Shipping' (grey) and 'Review & Payments' (orange). The 'Review & Payments' step is checked. Below the progress bar, the title 'Payment Method' is displayed. There are two options: 'Purchase Order' (radio button) and 'Fairstone' (radio button, highlighted with a red box). Below these are buttons for 'Apply Discount Code' and 'Apply Gift Card'. To the right, a sidebar titled 'Order Summary' provides details about the cart:

Order Summary	
Cart Subtotal	CA\$126.25
Shipping Flat Rate - Fixed	CA\$4.00
Tax	CA\$18.94
Order Total Incl. Tax	CA\$149.19
Order Total Excl. Tax	CA\$130.25
2 Items in Cart	

Figure 33 Default logo for Fairstone Payment Method

To upload different custom logos for English and French locale, admin user must upload corresponding images to both the EN and FR locales and save the configuration.

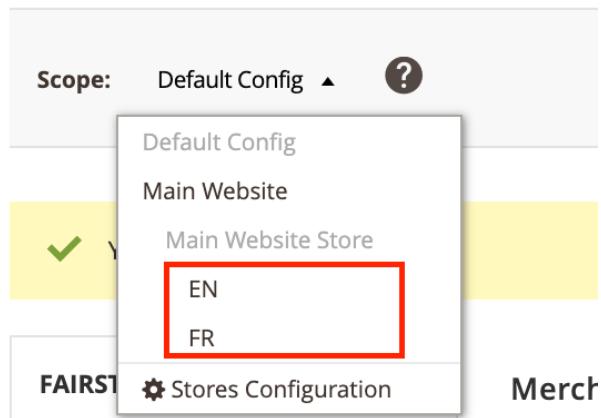


Figure 34 Upload Logo for specific locale

3 MANAGE PAYMENT PLANS

3.1 Add/edit/delete Payment Plan

An Admin user with access (link to roles), can Add/Edit/Delete Payment Plans.

The screenshot shows the 'Payment Plan Management' page. On the left is a vertical sidebar with icons and labels: DASHBOARD, FAIRSTONE, SALES, CATALOG, CUSTOMERS, MARKETING, CONTENT, REPORTS, and STORES. The 'FAIRSTONE' icon is highlighted. The main area has a title 'Payment Plan Management' with a search icon, a notification bell with a red '1', and a user profile 'natalia.kopytsia'. A red button 'Add a new Payment Plan' is at the top right. Below it are 'Filters' and 'Columns' buttons. It displays '5 records found' with a table showing payment plan details. The table has columns: Min Value, Max Value, Down Payment Duration(months), Is Active, and Action. The data is as follows:

	Min Value	Max Value	Down Payment Duration(months)	Is Active	Action
<input type="checkbox"/>	30.00	59.99	2	Yes	Select ▾
<input type="checkbox"/>	60.00	499.99	6	Yes	Select ▾
<input type="checkbox"/>	500.00	4999.99	24	Yes	Select ▾
<input type="checkbox"/>	5000.00	7000.00	32	Yes	Select ▾
<input type="checkbox"/>	7000.01	10000000.00	64	Yes	Select ▾

Figure 35 Payment Plan Management page

To create a new Payment Plan, navigate to Admin > Fairstone > Manage Payment Plans > Add a new Payments Plan. There are mandatory fields needing to be filled out:

- Minimum value
- Maximum value
- Down Payment Duration
- Is Active

New Payment Plan

Payment Plan Configuration

Minimum Value *

Enter the minimum value of payment plan (f.e.10.29)

Maximum Value *

Enter the maximum value of payment plan (f.e.120.29)

Down Payment Duration *

Down payment duration(in months). Use 0 to define the minimum threshold below which the calculator does not display on the PDP / PLP.

Is Active *

If 'Is Active' = Yes, the payment plan will be available in 'Payment Plan' product attribute

Save Payment Plan

Figure 36 New Payment Plan

Fields Min Value and Max Value should not be overlapping or duplicated. The same value cannot be the max value for the previous plan and min value for the next plan.

3.2 User roles. Permissions for Payment Plan

Access/restriction for Admin related to Payment Plan configuration can be set up by navigating to Admin > System > User Roles > Role Resources > Custom > Fairstone
Permissions relevant for Manage Payment Plan can be found here:

- *Fairstone (active/disabled Fairstone tab)*
 - *Manage Payment Plan (add/update/delete)*
 - *Save and Update Payment Plan*
 - *Delete Payment Plan*
 - *View Payment Plan (only view data grid with plans)*

The screenshot shows the 'Role Resources' section of the Fairstone Role Configuration interface. On the left is a sidebar with icons for Dashboard, Fairstone, Sales, Catalog, Customers, Marketing, Content, and Reports. The main area has tabs for 'Role Info', 'Role Resources' (which is selected and highlighted in red), and 'Role Users'. Under 'Role Resources', there are sections for 'Role Scopes' (set to 'All'), 'Resource Access' (set to 'Custom'), and 'Resources'. The 'Resources' section lists several items under a tree structure, with a red box highlighting the 'Manage Payment Plan' node and its sub-options: 'Save and Update Payment Plan', 'Delete Payment Plan', and 'View Payment Plans'. Other visible nodes include 'Dashboard', 'Fairstone', 'Manage Admin Fee', 'Save and Update Admin Fee', 'Delete Admin Fee', 'View Admin Fee', 'Configure Calculator', and 'Analytics'.

Figure 37 Role resources for Manage payment plan

3.4

Activation Payment Calculator for products

To activate Payment Calculator for products, the admin user must navigate to Admin > Stores > Configuration > Fairstone > Calculation > Payment Calculator > Active:

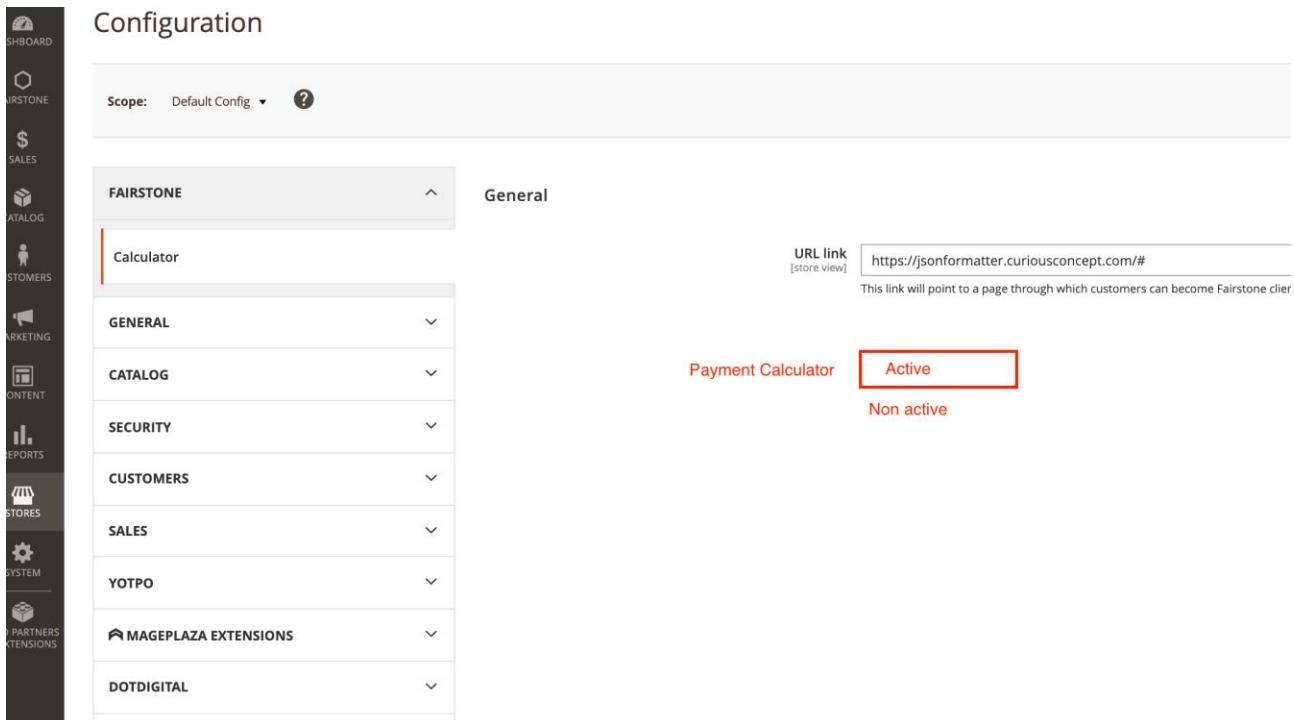


Figure 38 Payment Calculator activation

If an admin user chooses “Non Active”, it means that the payment calculator is not displayed in FE Shop (Product list page, Product detail page).

By default, all Product types will be included in the “fairstone_payment_plan” attribute. The Admin user can also configure this manually (for example: for cases with new attribute type):

- navigate to Admin > Stores > Attribute Set > Product type (for example: Top) > Unassigned attribute

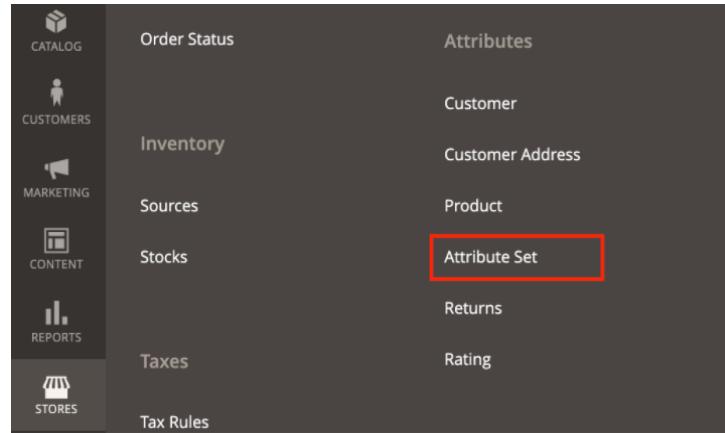


Figure 39 Attribute set tab

Figure 40 Attribute Sets page

- drag and drop “fairstone_payment_plan” attribute to Product details
- save changes by clicking on the “Save” button

The screenshot shows the Magento Admin Panel with the sidebar navigation on the left. The main area is titled 'Edit Attribute Set Name' with the name 'Top' entered. In the 'Groups' section, the 'fairstone_payment_plan' attribute is highlighted with a red underline. The 'Unassigned Attributes' section lists various attributes like category_gear, features_bags, etc.

Figure 41 Attribute "fairstone_payment_plan" for specific set

"Payment Plan" attributes will now be displayed for all products with "Top" Product type.

To open Admin Product detail page admin user should:

- navigate to Admin > Catalog > Products:

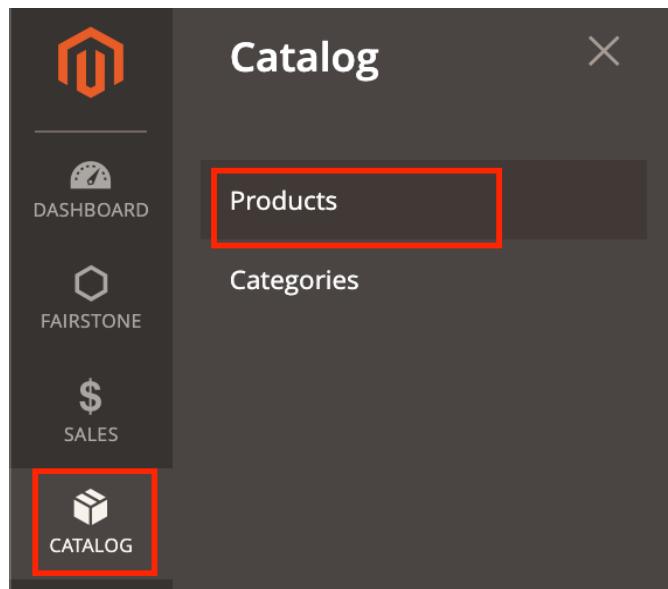


Figure 42 Products tab

- open Product with “Top” attribute set:

The screenshot shows the Magento Admin interface for the 'Products' section. At the top, there is a yellow banner with the message: '⚠ One or more indexers are invalid. Make sure your [Magento cron job](#) is running.' To the right of the banner, it says 'System Messages: 1'. On the left, there is a vertical sidebar with icons for Dashboard, Fairstone, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, and System. The 'Catalog' icon is highlighted. The main area has a header 'Products' with a search icon, a notification bell, and a user dropdown 'natalia.kopytsia'. Below the header is a red button 'Add Product'. The search bar contains the keyword 'Juliana Short-Sleeve Tee'. The table below shows 16 records found. The columns are: Actions, ID, Thumbnail, Name, Type, Attribute Set, SKU, Price, Quantity, Salable Quantity, Visibility, Status, Websites, and Action. The first product's 'Attribute Set' column is highlighted with a red box and contains the value 'Top'. The second product's 'Attribute Set' column contains the value 'Top'.

Actions	ID	Thumbnail	Name	Type	Attribute Set	SKU	Price	Quantity	Salable Quantity	Visibility	Status	Websites	Action
<input type="checkbox"/>	1467		Juliana Short-Sleeve Tee XS-Black	Simple Product	Top	WS07-XS-Black	CA\$30.00	100.0000	Default Stock: 100	Not Visible Individually	Enabled	Main Website	Ed
<input type="checkbox"/>	1468		Juliana Short-Sleeve	Simple	Top	WS07-VC	CA€120.00	100.0000	Default Stock:	Not Visible	Enabled	Main	Ed

Figure 43 Attribute set column on Products page

“Payment plan” attribute is displayed on the Product detail page with default value. It means that if the Product price = 30 and Payment plan with range including 30 exists and is active in the system, the Payment Calculation will be displayed in FE Shop.

The screenshot shows the 'Juliana Short-Sleeve Tee-XS-Black' product detail page in the Magento Admin. The left sidebar includes links for Dashboard, Fairstone, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main area shows the product's details with several fields highlighted by red boxes:

- Payment Plan**: Set to 'Default'.
- Enable Product**: Set to 'Yes'.
- Attribute Set**: Set to 'Top'.
- Product Name**: 'Juliana Short-Sleeve Tee-XS-Black'.
- SKU**: 'WS07-XS-Black'.
- Price**: 'CA\$ 30.00'.
- Tax Class**: 'Taxable Goods'.

Buttons at the top right include 'Schedule New Update', 'Back', 'Add Attribute', 'Save', and a dropdown menu.

Figure 44 Attribute Payment Plan on PDP in Admin

The screenshot shows the 'Payment Plan Management' page in the Magento Admin. The left sidebar is identical to Figure 44. The main area displays a table of payment plans with the following data:

	Min Value	Max Value	Down Payment Duration(months)	Is Active	Action
<input type="checkbox"/>	30.00	59.99	2	Yes	Select ▾
<input type="checkbox"/>	60.00	499.99	6	Yes	Select ▾
<input type="checkbox"/>	500.00	4999.99	24	Yes	Select ▾
<input type="checkbox"/>	5000.00	5000.00	32	Yes	Select ▾
<input type="checkbox"/>	5000.01	1000000000.00	64	Yes	Select ▾

A yellow header bar indicates 'One or more indexers are invalid. Make sure your Magento cron job is running.' and 'System Messages: 1'. Buttons include 'Add a new Payment Plan', 'Filters', 'Columns', and pagination controls.

Figure 45 Payment Plan Management page

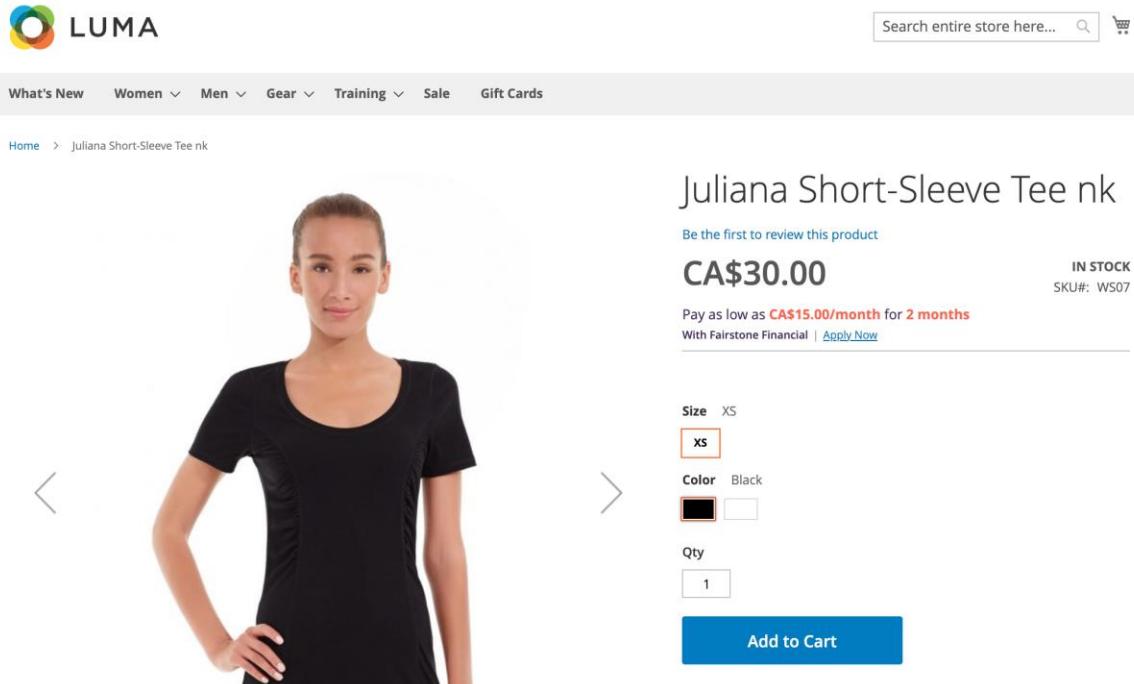


Figure 46 Specified Payment plan for current price on PDP (FE shop)

3.6

Payment plan on Product detail page

Payment Plan can be configured for the PDP in the admin panel. Navigate to Admin > Catalog > Product > Open product.

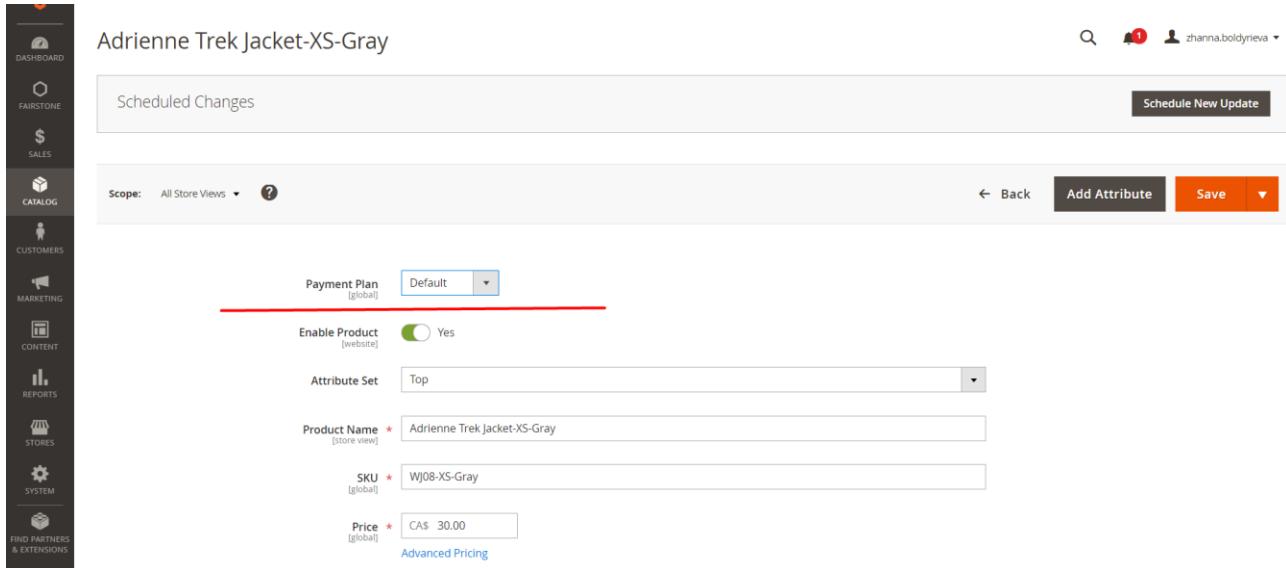


Figure 47 Default Payment Plan for Products

To confirm that the current attribute Payment Plan is added to the Attribute set; Navigate to Admin > Store > Attribute set > Select Top. The Fairstone Payment plan is added to the Product Details.

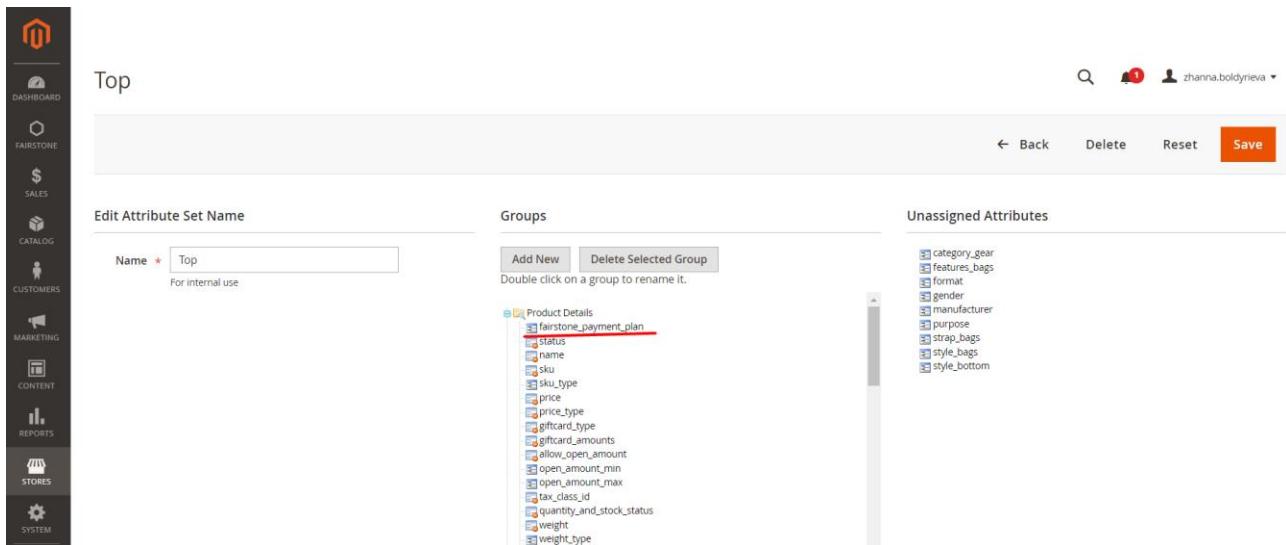


Figure 48 Attribute "fairstone_payment_plan" by default for specific set

3.7 Frontend Behavior. Payment Plan

When a simple product price is in range, the configured Payment Plan (3.1) is displayed on FE, as shown in the picture. If the product price is not in range of the configured Payment Plan, the “Pay as low as..” will not be displayed in the FE.

Home > Women > Tops > Jackets > Juno Jacket

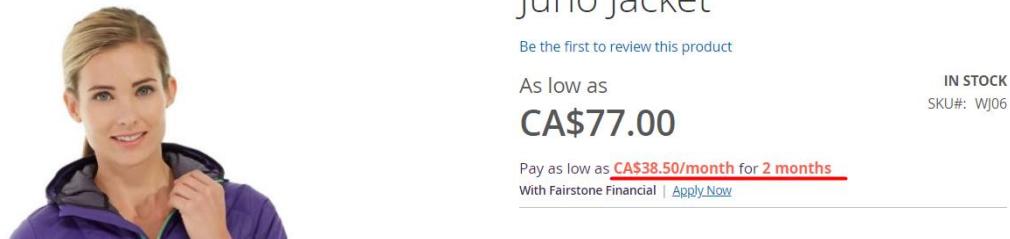


Figure 49 Correct calculator on PDP (FE shop)

Payment Plan Management is displayed on the following pages:

- PDP/PLP
- Wishlist page, Compare page
- Main page

The merchant may choose to integrate other components. This is not scope of the out of the box payment calculator.

Configurable products can have child products with different prices. As a result, the child products may map to different Payment plans. Depending on the Configuration Payment plan, the specific data will be displayed on FE Shop.

The screenshot shows two main sections. On the left, a table lists two variants of a 'Juliana Short-Sleeve Tee nk': 'Black' (XS) and 'White' (XS). The 'Black' variant has a price of CA\$30.00 and SKU WS07-XS-Black. On the right, a 'Payment Plan Management' interface shows a table with five rows of payment plan configurations, each with a checkbox, minimum value, maximum value, duration, and status ('Yes').

Image	Name	SKU	Price
	Juliana Short-Sleeve Tee-XS-Black	WS07-XS-Black	CA\$30.00
	Juliana Short-Sleeve Tee-XS-White	WS07-XS-White	CA\$120.00

	Min Value	Max Value	Down Payment Duration(months)	Is Active	Action
<input type="checkbox"/>	30.00	59.99	2	Yes	Select ▾
<input type="checkbox"/>	60.00	499.99	6	Yes	Select ▾
<input type="checkbox"/>	500.00	4999.99	24	Yes	Select ▾
<input type="checkbox"/>	5000.00	5000.00	32	Yes	Select ▾
<input type="checkbox"/>	5000.01	100000000.00	64	Yes	Select ▾

Juliana Short-Sleeve Tee nk

Be the first to review this product

CA\$120.00

IN STOCK
SKU#: WS07

Pay as low as **CA\$20.00/month** for **6 months**
With Fairstone Financial | [Apply Now](#)

Size XS



Color White



...

Juliana Short-Sleeve Tee nk

Be the first to review this product

CA\$30.00

IN STOCK
SKU#: WS07

Pay as low as **CA\$15.00/month** for **2 months**
With Fairstone Financial | [Apply Now](#)

Size XS



Color Black



Figure 50 Payment Plan calculator for configurable product on PDP

Data from the cheapest product will be displayed on Product list page:

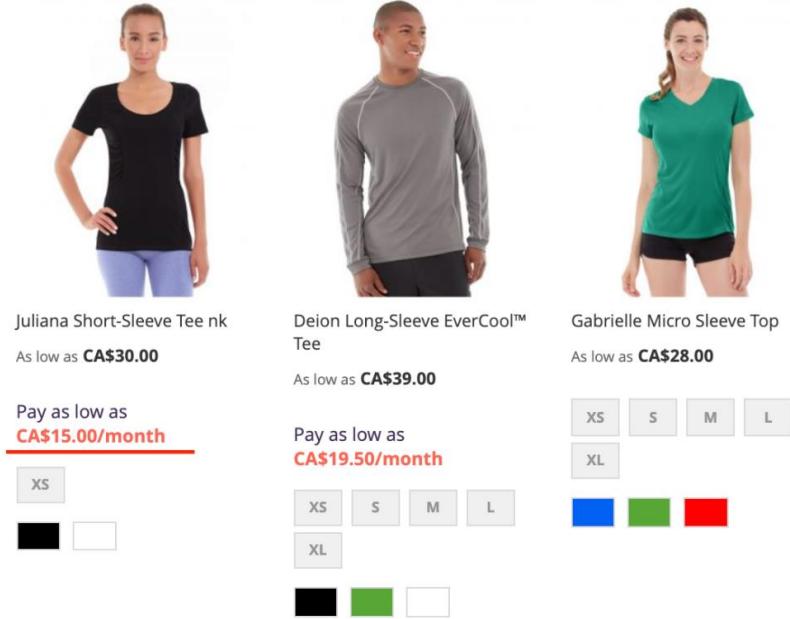


Figure 51 Payment calculator for configurable product on PLP

3.8 Apply now link. Configuration

Admin User can manually configure the “Apply now” URL on the Product detail page:

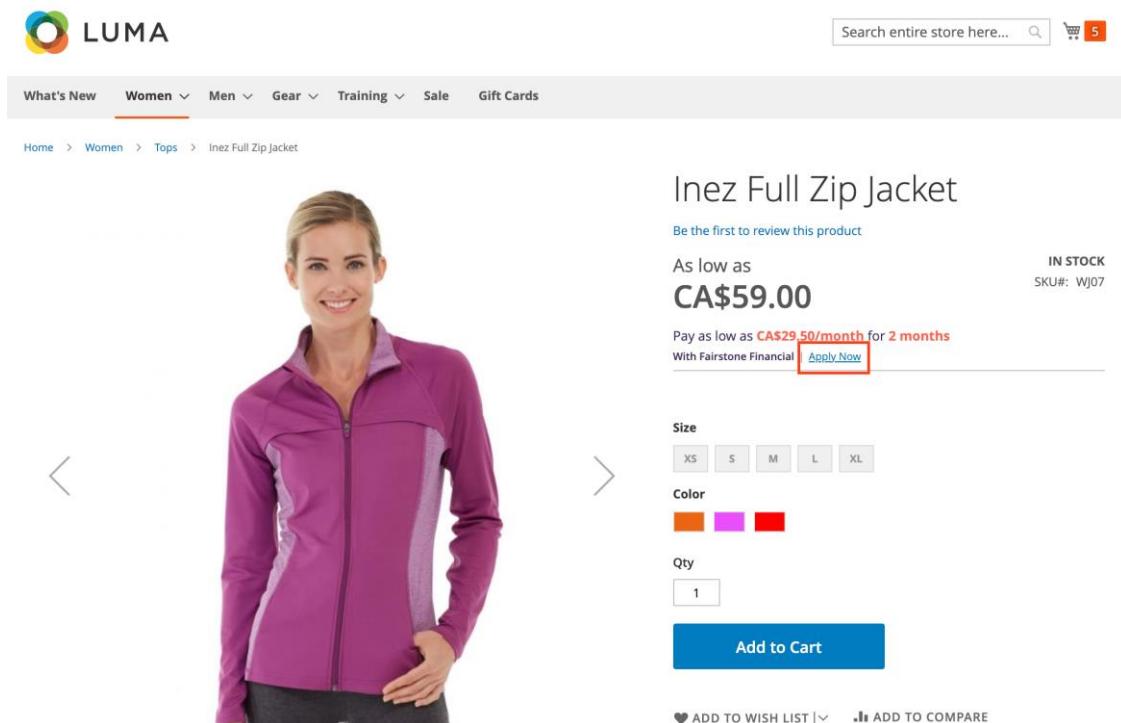


Figure 52 Link Apply Now on PDP

To edit the “Apply now” link, the admin navigates to Admin > Stores > Configuration > Fairstone > Calculator > URL Link:

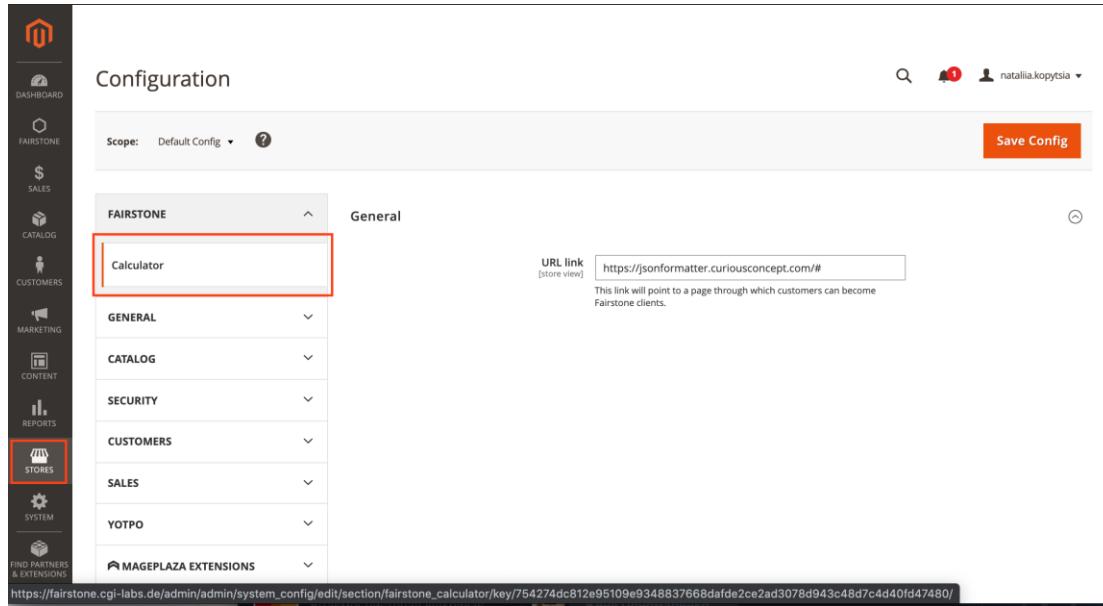


Figure 53 Configuration for “Apply now” link in Admin

3.9 Apply now link. Permissions

To add restrictions to the Configure Calculator, the admin can create new user roles with specific permissions by navigating to “System > User roles”:

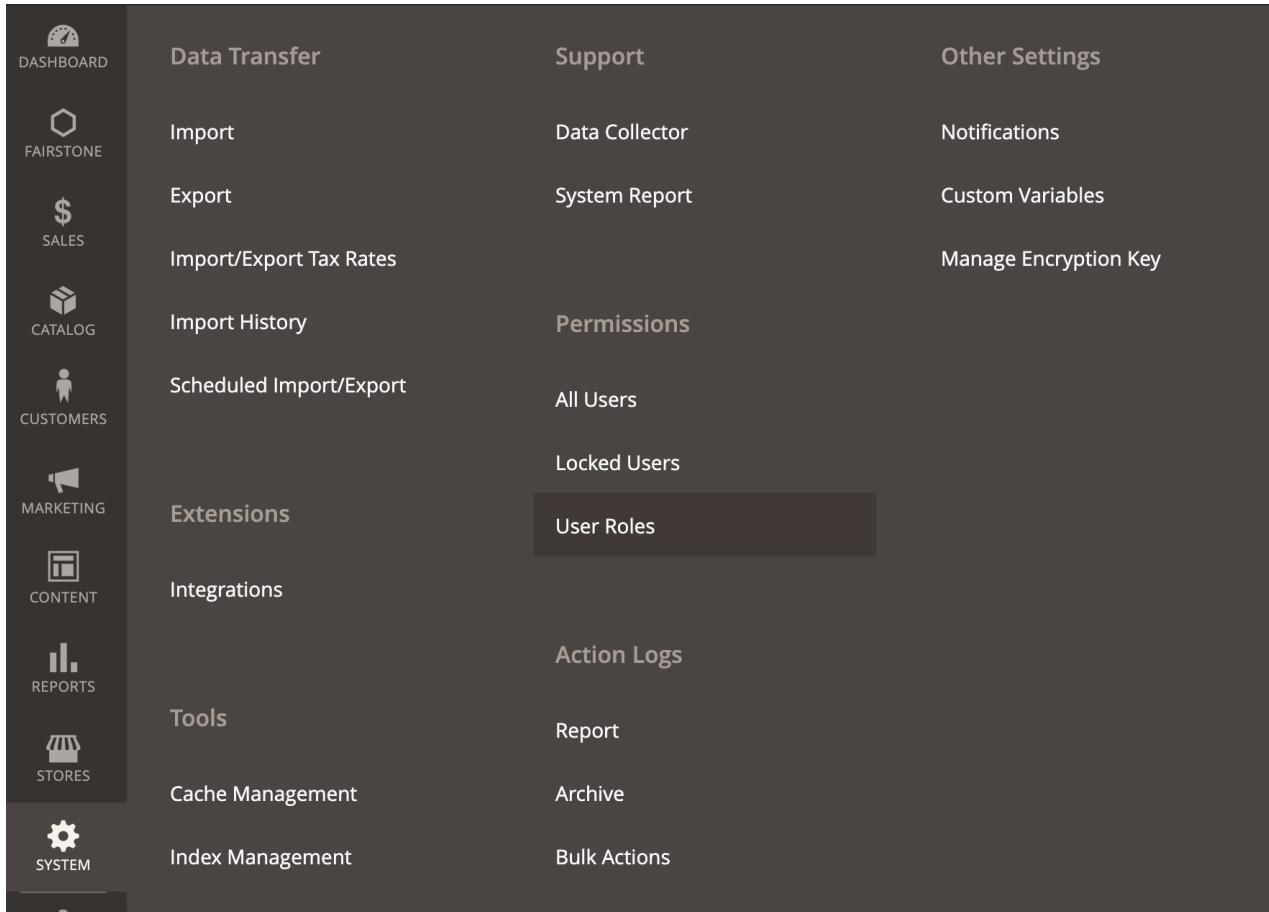


Figure 54 “Apply Now” link. User role

To add a new role, the admin chooses “Add new role” > Fill name > Role Resources > Custom > Fairstone and set up “Configure Calculator” permission.

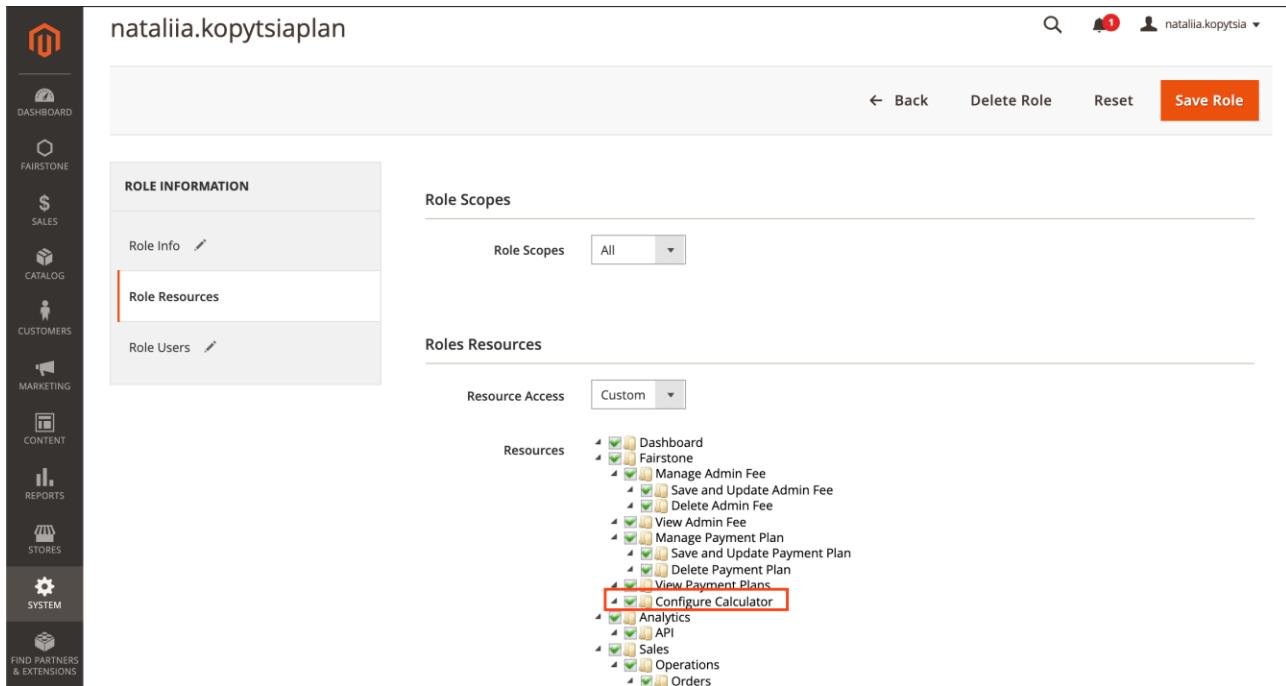


Figure 55 Configure calculator Role Resources

4

SYNCHRONOUS/ASYNCHRONOUS CALLBACK

Synchronous callback returned “success” if the customer is redirect to the Fairstone upon placing the order in Magento.

Should the Synchronous callback return a Failure or not at all, Magento will not be able to redirect to Fairstone side, and rather show a failure message.

To check the asynchronous callback status, navigate to the administration backend as follows: BE > Sale > Order > Select order. A successfully order will be in status “Complete” with Authorization code.

If an asynchronous callback failed, the order status will be in “Cancel” and the Authorization code field should be empty.

Open view order page, navigate to bottom. Pay attention to the comments, when we get a second comment about Payment status: “completed” means that Magento received a “success” with the asynchronous callback.

The screenshot shows the Magento Admin Order View page for order #2000000081. The top navigation bar includes Back, Login as Customer, Send Email, Credit Memo, Reorder, and Create Returns. The main content area is divided into sections: Order Total, Notes for this Order, and Order Totals. The Notes for this Order section shows the status dropdown set to 'Complete' and a comment input field. Below this are checkboxes for 'Notify Customer by Email' and 'Visible on Storefront', followed by a 'Submit Comment' button. The Order Totals section displays financial details. At the bottom of the page, there is a large block of comments:

```
Nov 25, 2020 2:18:53 PM | Processing | Customer Not Notified  
Authorization code from payment gateway: 020982  
Payment status: completed  
  
Nov 25, 2020 2:18:53 PM | Processing | Customer Not Notified  
Invoice has been created automatically  
  
Nov 25, 2020 2:18:53 PM | Processing | Customer Not Notified  
Authorization code from payment gateway: 020982  
Payment status: completed  
  
Nov 25, 2020 2:17:56 PM | Processing | Customer Not Notified  
Authorized amount of CA$209.00.
```

Figure 56 Synchronous callbacks. Comments

5 TAXES

To add/edit/delete Tax Rule navigate to Admin > Store > TAX rules:

The screenshot shows a table titled "Tax Rules" with the following columns: Name, Customer Tax Class, Product Tax Class, Tax Rate, Priority, Subtotal Only, and Sort Order. There are three records found:

Name	Customer Tax Class	Product Tax Class	Tax Rate	Priority	Subtotal Only	Sort Order
Rule1	Retail Customer	Taxable Goods	US-MI-*Rate 1	0	0	0
Retail-Canada-GST	Retail Customer	Taxable Goods	Canada-GST	0	1	0
Retail-Canada-PST	Retail Customer	Taxable Goods	Canada-SK-PST	1	1	0

Figure 57 Tax Rules page

Per default, the following Tax Rules are configured: Canada-GST and Canada-SK-PST. The Merchant admin must adjust these as well as complete configuration of the remaining tax rules for Canada.

To add: New Rules > Go to Add new Tax Rules page. At the New Tax rule page fill out all mandatory fields and Save.

The screenshot shows the "New Tax Rule" page with the following sections:

- Tax Rule Information:** Fields for Name (mandatory) and Tax Rate (mandatory). The Tax Rate dropdown shows "0 selected" and lists options like "US-CA-*Rate 1", "US-NV-*Rate 1", "US-MI-*Rate 1", "Canada-GST", and "Canada-SK-PST". A button "Add New Tax Rate" is also present.
- Additional Settings:** Buttons for Import Tax Rates, Choose File (No file chosen), Import Tax Rates, Export Tax Rates, and Export Tax Rates.

Figure 58 New Tax rule page

Tax Rule has the following configurable parameters, navigate to Tax Rule > Additional Settings:

- Tax rate
- Customer tax Class
- Product Tax Class

The screenshot shows the 'Tax Rule Information' configuration page. At the top, there is a search bar, a user icon, and a dropdown menu. Below the header, there are three main sections: 'Tax Rule Information', 'Additional Settings', and 'Customer Tax Class'. In the 'Tax Rule Information' section, the 'Name' field is set to 'Retail-Canada-PST'. The 'Tax Rate' field is a dropdown menu containing several options, with 'Canada-PST' selected. In the 'Additional Settings' section, the 'Customer Tax Class' field contains 'Retail Customer'. In the 'Customer Tax Class' section, the 'Product Tax Class' field contains 'Taxable Goods'. A red box highlights the 'Product Tax Class' dropdown.

Figure 59 Additional Settings for default tax

Parameter TAX class can be configured separately, navigate to Admin > Fairstone > Manage Fee > Open any Fee. The Tax Class can be set to either None or one of the options shown in the drop down.

The screenshot shows the 'Edit 'Admin fee EN1' Fee' configuration page. At the top, there is a search bar, a user icon, and a dropdown menu. Below the header, there are two main sections: 'Fee configuration' and 'Tax Class'. In the 'Fee configuration' section, there are fields for 'English Admin Fee Name' (set to 'Admin fee EN1'), 'French Admin Fee Name' (set to 'Admin fee FR2'), 'Admin Fee without taxes' (set to '10.00'), and 'Plan Payment SKU' (set to 'adminFeeSku4, adminFeeSku5, adminFeeSku6'). In the 'Tax Class' section, a dropdown menu is open, showing options: 'None', 'Taxable Goods', 'Refund Adjustments', 'Gift Options', 'Order Gift Wrapping', 'Item Gift Wrapping', 'Printed Gift Card', and 'Reward Points'. A red box highlights the 'Tax Class' dropdown.

Figure 60 Tax class at the Admin Fee page

To set Zone and Rate for Taxes navigate to Admin > Store > Tax zone and Rate.

Tax Zones and Rates

The screenshot shows a table titled 'Tax Zones and Rates' with the following columns: Tax Identifier, Country, State/Region, Zip/Post Code, and Rate. There are five rows of data:

Tax Identifier	Country	State/Region	Zip/Post Code	Rate
	All Countries			From _____ To _____ 5.0000
Canada-GST	Canada	*	*	5.0000
US-CA-*-Rate 1	United States	CA	*	8.2500
US-MI-*-Rate 1	United States	MI	*	8.2500
US-NY-*-Rate 1	United States	NY	*	8.3750
Canada-SK-PST	Canada	SK	*	5.0000

Figure 61 Tax Zone and Rate page

TAX = Canada-GST configured for all State/Regions, Zip/Post Codes.

TAX = Canada-SK-PST configured for Province / Territory: (in this example for) Saskatchewan. This tax will be applied only for Saskatchewan.

In this example, Saskatchewan will have 2 Taxes:

- Canada-GST
- Canada-SK-PST

To add new Tax Rate, navigate to page Admin > Store > Tax zone and Rate > Add New Tax Rate:

The Tax Titles can be set for EN and FR languages.

The screenshot shows the 'New Tax Rate' form with the following fields:

- Tax Identifier: A text input field.
- Zip/Post is Range: A checkbox.
- Zip/Post Code: A text input field with a note: "* - matches any; 'xyz*' - matches any that begins on 'xyz' and are not longer than 10."
- State: A dropdown menu.
- Country: A dropdown menu set to Canada.
- Rate Percent: A text input field.
- Tax Titles: A section with EN and FR language input fields.

A note at the bottom says: "Note: Leave this field empty if you wish to use the tax identifier."

Figure 62 New Tax rate page

To edit created Tax Rate, navigate to page Admin > Store > Tax zone and Rate, click on the Tax rate which shall be edited. After editing and saving, the new configuration will be displayed in the FE (Figure 62 New Tax rate page).

Taxes for the specific state, for instance Saskatchewan, can be also configured by ZIP code.

- variant configure Tax by using ZIP/Post in range field
- variant configure Tax by using ZIP/Post code field

If parameter ZIP/Post is specified, then the configured TAX for Saskatchewan State will be displayed either for ZIP/Post in range or specified ZIP/Post code. In case the ZIP/Post is either out of range or not as specified in configuration, a purchase will have general TAX applied only.

The screenshot shows the 'Edit Tax' page with the following details:

- Tax Rate Information:**
 - Tax Identifier: Canada-SK-PST
 - Zip/Post is Range:
 - Range From: [empty input]
 - Range To: [empty input]
 - State: Quebec
 - Country: Canada
 - Rate Percent: 10.0000
- Tax Titles:**
 - EN: Canada-SK-PST EN
 - FR: Canada-SK-PST FR

Figure 63 Edit Tax page

General Tax Canada-GST displayed on FE:

The screenshot shows the Fairstone checkout page with the following details:

- Payment Method:**
 - Check / Money order
 - Fairstone
- Address:**
 - My billing and shipping address are the same
 - test te
100 Anderson Rd SE #356
Calgary, Alberta T2J3V0
Canada
4915256723005
- Buttons:**
 - Select a Fairstone Plan
 - Place Order
 - Apply Discount Code
 - Apply Gift Card
- Order Summary:**

Cart Subtotal	CA\$34.00
Shipping	CA\$5.00
Tax	CA\$1.70 ^
Canada-GST (5%)	CA\$1.70
Order Total Incl. Tax	CA\$40.70
Order Total Excl. Tax	CA\$39.00

1 Item in Cart

Breathe-Easy Tank	Qty: 1	CA\$34.00
View Details		
- Ship To:** [input field with pencil icon]

Figure 64 Tax displaying on FE shop

General Tax Canada-GST and Tax Canada-SK-PST for State Saskatchewan displayed on FE:

Payment Method

Check / Money order

 Fairstone

My billing and shipping address are the same

test te
100 Anderson 23
Calgary, Saskatchewan T2J3V0
Canada
0114915256723005

Select a Fairstone Plan

Place Order

Apply Discount Code ▾

Apply Gift Card ▾

Order Summary

Cart Subtotal	CA\$34.00
Shipping Flat Rate - Fixed	CA\$5.00
Tax	CA\$3.40 ^
Canada-GST (5%)	CA\$1.70
Canada-SK-PST (5%)	CA\$1.70
Order Total Incl. Tax	CA\$42.40
Order Total Excl. Tax	CA\$39.00

1 Item in Cart

	Breathe-Easy Tank
	Qty: 1
	CA\$34.00

[View Details](#) ▾

Figure 65 Default and Specific tax on FE shop

6 FAIRSTONE WEB COMPONENT LAYER

In order to enable the Fairstone Payment extension and the Payment Plan Calculator to be used with REST APIs and hence for a full headless frontend, a web component layer has been built.

These are described here in more detail.

6.1 Fairstone Payment Extension Web Components

The following are the web components created for the Payment Extension interaction.

6.1.1 Overview

Fairstone Payment - payment method for Magento 2. Allows you to use Fairstone as payment method for customer Order Checkout.

FairstonePayment Web Component - builded using the Web Components technology stack.

FairstonePayment component works with Magento 2 REST API. Using API with “anonymous” and “customer” access.

Fairstone Payment React Component - is a wrapper for easily integration in PWA Studio and Venia UI React storefront. All codebase exists in the web component itself, React Component does not have functionality, only integration code.

In addition, in the Fairstone Payment package 2 (two) additional components have been built; FairstoneCheckoutSuccessPage and FairstoneSummary for showing success page and Fairstone Plan admin fee in checkout Order Totals component.

6.1.2 Install

This section outlines how to install the web components. Two alternative ways are described; using NPM (recommended) and a manual installation.

6.1.2.1 Using NPM

1. npm install --save-dev @fairstone/fairstone-payment
2. npm install --save-dev @fairstone/fairstone-payment-react
3. npm install --save-dev @fairstone/fairstone-summary-react
4. npm install --save-dev @fairstone/fairstone-checkout-success-page-react

6.1.2.2 Manual installation

Download components from #url# and unpack files into your project folder.

Fairstone Retail Procedures

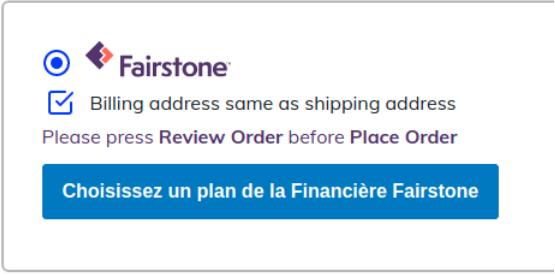
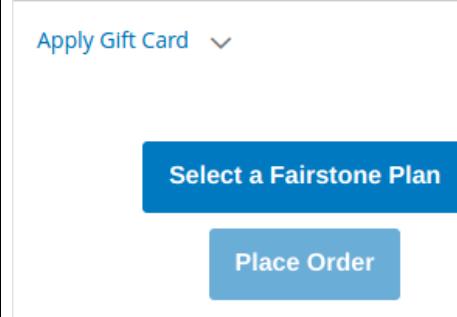
© 2020,™ Fairstone Financial Inc. | Proprietary and Confidential Financial and Commercial Information.

6.2.1 Integration

The web component(s) can be integrated in any Magento 2 checkout flow. It can be used in projects using SSR, SPA and PWA projects.

Typical usage will be to integrate this component into the checkout page, in your payments method list.

Component can use token, cartKey or cookies for auth customer in Magento 2 REST API's

Venia UI (CSR, PWA)	Luma (SSR)
	

6.2.1.1 Integrate into a Common project

1. Include fairstone-payment.js into the page.
2. Add <fairstone-payment></fairstone-payment> html tag in html where you want to render it.
3. Configure it with required options.

6.2.1.2 Integrate with Venia UI

For adding payment method to Venia UI storefront:

1. Unpack FairstonePaymentMethod folder in magento/venia-ui/lib/components.
2. Open file venia-ui-intercept.js under pwa-studio/packages/venia-ui/lib/targets folder.
3. Add new payment method by adding:

```
paymentMethodList.add({
    paymentCode: 'fairstone',
    importPath: '@magento/venia-
ui/lib/components/FairstonePaymentMethod/fairstonePaymentMethod'
});
```

4. Open pwa-studio/packages/venia-ui/lib/components/CartPage/PriceSummary/priceSummary.js
 5. Import FairstoneSummary component: import FairstoneSummary from '[..../FairstonePaymentMethod/fairstoneSummary](#)';
 6. Add JSX after ShippingSummary:

```
<FairstoneSummary
  classes={{
    lineItemLabel: classes.lineItemLabel,
    priceClass: priceClass
  }}
  currencyCode={subtotal.currency}
/>
```
 7. Open file pwa-studio/packages/venia-ui/lib/defaultRoutes.json
 8. Add our new FairstoneCheckoutSuccessPage
- ```
{
 "name": "FairstoneCheckoutSuccessPage",
 "pattern": "/fairstone/checkout/success/:orderId?",
 "path": "../FairstonePaymentMethod/fairstoneCheckoutSuccessPage.js"
}
```

## 6.2.2 Options

Fairstone Payment Web Component uses predefined options objects in the global scope of the window the `window.fairstonePaymentMethodOptions` and optional `window.fairstonePaymentMethodBillingAddress` object.

### 6.2.2.1 `window.fairstonePaymentMethodOptions`

The following fields exists

`token` - (String) Current customer token;  
`cartId` - (String) Required for guest checkout. Current Guest CartKey,  
`email` - (String) Required for guest checkout. Current customer email.  
`isGuest` - (Boolean) Required for guest checkout.  
`lang` - (String) Required if store has Language Switcher. Represent the current lang of user storefront. If not equal for 'en' (default) will try to load and apply translations for current language.  
`storeCode` - (String) Required if we have Store Switcher or Default Store code is not 'default'.  
`locale` - (String) Required if store used not only en-US locale. Required for correct price format.

### 6.2.2.2 `window.fairstonePaymentMethodBillingAddress`

If this object exists, the address from this object will be used on place order as a customer billing address. Added for easy integration with Parent->Child data flow architecture.

```
region_code (String)
country_id (String)
street (String)
postcode (String)
city (String)
telephone (String)
firstname (String)
lastname (String)
same_as_billing - (Int) can be 1 or 0
```

### 6.2.3 Workflow

1. Before the render component will load all required data such as: module config, store currency, fairstone plans, customer cart totals.
2. Component rendered and allows you to select preferred plan.
3. After the plan was selected, totals on the backend will be updated, and actual fee for this plan will be added to order Totals.
4. When you press Place order, order will be created and customer will be redirected to the Fairstone site.
5. Customers must complete or decline the Fairstone flow.
  - a. Customer can decline Fairstone flow and will be returned to the Checkout Page with restored quote data (cart items).
  - b. if customer successfully complete Fairstone flow it will be redirected to the success page (Venia)

### 6.2.4 Notes

If payment method is available in storeconfig and React component for render it exists it will be shown as a child of PaymentMethods component on Checkout Page.

venia-ui-intercept.js file represents the default payment method list for checkout and used only when the app builds.

defaultRoutes.json file represents the list of default pages url and params for them used only when the app builds.

priceSummary.js component represents Order Totals in Checkout Page.

FairstoneSummary React component has data prop. Or you can use fairstonePaymentMethodTotalsUpdate event to provide data from

quoteCartTotalRepository into the component, component will try to find *fairstone\_admin\_fee* code and render it.

## 6.3 Fairstone Calculator Web Component

The Fairstone payment calculator enables teaser financing with Fairstone on product level. This section outlines the web component implementation, through which FE themes / frameworks can access this functionality.

### 6.3.1 Overview

The Fairstone payment calculator has the following web components:

- 1) FairstoneCalculator components provide the functionality of showing teaser with calculated price for month. Based on current product price and Fairstone module config.
- 2) Fairstone Calculator component works with Magento 2 REST API. Using only APIS with “anonymous” access.
- 3) FairstoneCalculator Web Component - builded using the Web Components technology stack.
- 4) Fairstone Calculator React Component - is a wrapper for easily integration in PWA Studio and Venia UI React storefront. All codebase exists in the web component itself React Component does not have functionality only integration code.

### 6.3.2 Install

This section outlines how to install the web components. Two alternative ways are described; using NPM (recommended) and a manual installation.

#### 6.3.2.1 NPM

- `npm install --save-dev @fairstone/fairstone-calculator`
- `npm install --save-dev @fairstone/fairstone-calculator-react`

#### 6.3.2.2 Manually

Download components from #url# and unpack it in your project folder.

### 6.3.3 Integration

The payment plan calculator is a teaser that will typically be shown under the product main price.

| Small - Product List page                                                                                                                               | Large - Product View page                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Juno Jacket<br>77,00 \$CA<br>Pay as low as <b>15,40 \$CA/month</b> | Neve Studio Dance Jacket      69,00 \$CA<br><br>Payez aussi peu que <b>13,80 \$CA/month</b><br>pendant <b>5 months</b><br><small>Avec la Financière Fairstone   <a href="#">Faites une demande</a></small> |

For this you need add 1(one) js file to your page, add <fairstone-calculator> html tag somewhere in your HTML and provide values for the required options (attributes).

#### 6.3.3.1      *Common project*

Integrating a common project you need to:

- 1) Include fairstone-calculator.js into the page
- 2) Place <fairstone-calculator type="small" productid="1234"></fairstone-calculator> html tag in place where you want to render it.

#### 6.3.3.2      *Venia UI*

Integrating in Venia UI requires a few more operations.

##### 6.3.3.2.1    **Add Fairstone Calculator React component in Gallery/Item (product list item)**

Add the React component:

1. Open file: pwa-studio/packages/venia-ui/lib/components/Gallery/item.js
2. Add code with Import: import FairstoneCalculator from './FairstoneCalculator';
3. Add JSX after Price component: <FairstoneCalculator type="small" productId={item.id}>

##### 6.3.3.2.2    **Add Fairstone Calculator React in ProductFullDetails (product details)**

Add the React Component:

1. Open file: pwa-studio/packages/venia-ui/lib/components/ProductFullDetail/productFullDetail.js
2. Add code with Import: import FairstoneCalculator from './FairstoneCalculator'
3. Add JSX after Price component: <FairstoneCalculator type="large" productId={product.id} />

#### 6.3.4 Options

The following options can or must be configured.

##### 6.3.4.1 *Required options*

Component required 2 options (as a component attribute):

**productId** - Product id for calculating and fetching actual calculator data.

**type** - View type of rendered block, can be "small" for listing and "large" for product detail page

##### 6.3.4.2 *Optionals*

Component has 2 optional options (as a component attribute):

**lang** - Required if store has Language Switcher. Represent the current lang of user storefront. If not equal for 'en' (default) will try to load and apply translations for current language.

**storeCode** - Required if we have Store Switcher or Default Store code is not 'default'.

#### 6.3.5 Workflow

The web component workflow is as follows:

- 1) Component create request to Calculator API for fetching actual prices for current product.
- 2) If the store language is not English (en), components will create a new request to the Calculator API and will try to fetch actual translations for the current language. If translation exist under the i18n folder in module it will receive them and render.
- 3) Other components which will try to load translation will wait until the first request with promise in window.fairstoneCalculatorTranslationsPromise will be resolved. This allows us to create only 1 request for translations.