Product Designer Extension for Magento 2

Product Specification

The Product Designer Extension for Magento 2 serves as a sophisticated tool, facilitating customers in seamlessly personalizing their selected products. A notable attribute is its seamless compatibility with both simple and configurable products, offering an expansive spectrum of customization possibilities.

An integral feature is the extension's adaptable text customization, allowing customers to effortlessly incorporate multiple text elements with diverse font faces. This adaptability ensures meticulous personalization, aligning harmoniously with each customer's distinct vision for their customized product.

Taking customization, a step further, the extension empowers users by providing the capacity to vary font sizes and experiment with an array of creative elements such as color, shadows, outlines, and rotations. This bestows upon users a heightened level of creative control, resulting in an authentically distinctive and personalized customization experience.

Beyond text, customers can seamlessly upload new images, seamlessly integrating graphics, logos, or other images to craft a product that is genuinely one-of-a-kind. The inclusion of clipart functionality adds an extra layer of creativity, offering a diverse selection of pre-designed clipart to augment and elevate designs.

Customers benefit from the added convenience of seamlessly adding these personalized products to their cart, all while having the ability to preview them. Moreover, the extension allows users to align text, uploaded images, and clipart in various directions, providing an additional layer of customization options and enriching the overall personalization experience.

Administrators can have the capability to define a designated area within the product image where customers can customize their chosen products. Additionally, administrators have the authority to curate and add specific font faces and clipart images that are made available for customers to utilize in their customization process.

In essence, the Product Designer Extension for Magento 2 distinguishes itself through its seamless compatibility with both simple and configurable products. With its intuitive interface and an extensive array of features, it not only facilitates but empowers customers to effortlessly translate their creative ideas into personalized products, fostering a profound sense of ownership and individuality.

Features

Here is a comprehensive list of the features included in the Product Designer extension:

- 1. Compatibility with Simple and Configurable Products: The extension seamlessly supports both simple and configurable products, ensuring a versatile customization experience.
- 2. **Text Customization with Property Modification**: Users can easily add and modify text properties, including alignment, rotation, font, color, shadow, and outline. This comprehensive set of options provides users with fine-tuned control over the appearance of text elements.
- 3. **Alignment and Rotation Features**: The extension offers advanced functionality by allowing users to meticulously align and rotate clipart, images, and text elements.
- 4. **Image Upload Capability**: Users enjoy the convenience of seamlessly uploading their images. This feature opens a realm of creative possibilities, enabling users to integrate personal graphics, logos, or unique images into their product designs, fostering a truly individualized product.
- 5. Flexible Price Structures for Customization:

Administrators wield the ability to set diverse price types for customization, providing a flexible approach to pricing strategies. The available options include:

- Free Price: No additional cost is incurred for customization.
- Fixed Price: A predetermined and fixed cost is assigned for customization.
- Price per Object: This results in individualized pricing for each object, such as text, image, and clipart. The cost dynamically adjusts based on the quantity of each addition made during the customization process.
- 6. **Scheduled Image Cleanup by Cron**: This functionality ensures the automatic removal of saved customizable images in quote media folders after a designated period.
- 7. **Custom Fonts and Clipart Images**: Admins can easily enhance the customization options for customers. They can add different fonts and clipart in the backend, making them available in the customization popup on the frontend.

Admin Panel Configuration

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General Settings	
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Text Appearance	
Enab (store v	
Allow Text Shad [store v	
Allow Text Out	
ClipArt Appearance	
Enab [store v	led iew]
Price Settings	
Price Type [store view]	Free ▼ Setting price type for customised text, clipart and image upload
Cron Settings	(
Clear Customisation Files [website]	Yes Enable/disable cron to remove customisation files saved in quote media folder after a
Days after which files are to be deleted	chosen period of time 30 Days
[website]	Automatically removes customisation files saved in quote media folder and order media folders after the selected days
Clear Quote Files [website]	Yes Remove customisation files saved in quote media folder

Figure 1: Admin panel configuration

Figure 1. displays the admin configurations of the extension, which specifies location or placement of the Product Designer feature.

The fields are:

General Settings

- Enable Enable / Disable module.
- Change text of button The text of the button which starts the customisation on the frontend can be changed here.

Text Appearance

- Enabled To enable/disable text addition functionality in frontend
- Allow Text Shadow To enable/disable text shadow properties in customized text in frontend
- Allow Text Outline To enable/disable text outline properties in customized text in frontend

ClipArt Appearance

• Enabled – To enable clipart addition functionality in frontend

Price Settings

- Price Type Setting price type for customization
 - o There are three options
 - Free
 - Fixed
 - Per object



Figure 2: Price Type – Free

When price type is set as free, zero cost is incurred as design fee (Figure 2).

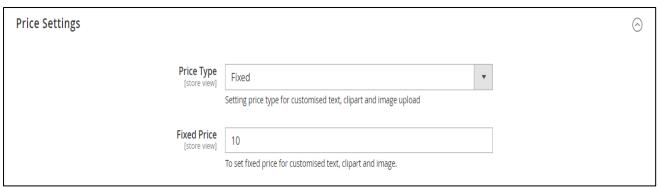


Figure 3: Price Type -Fixed

When the price type is set as fixed, the admin can set a fixed price regardless of the type of object (text, clipart, image) added (Figure 3).

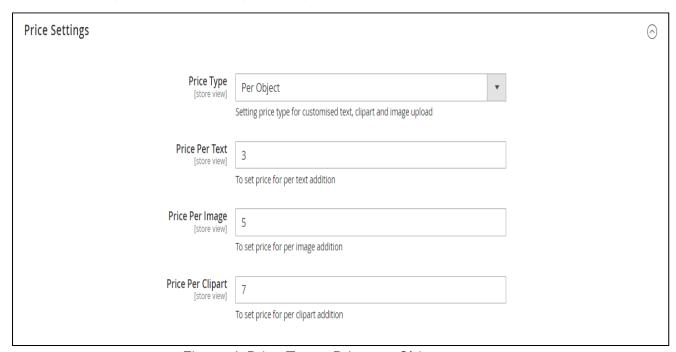


Figure 4: Price Type - Price per Object

When price type is set as Per Object, the admin can set individual price for per text, per image and per clipart addition and design fee is cumulative of these prices (Figure 4).

Cron Settings

Admins can set up a scheduled task called a cron job to automatically clear out customization files stored in the **quote media** folders. This is particularly useful when customers save customized images without placing an order, preventing unnecessary storage consumption in the **pub/media** directory. It's a straightforward way for administrators to manage storage efficiently and keep the media storage area in Magento running smoothly. There are three fields under Cron Settings tab (Figure 5).

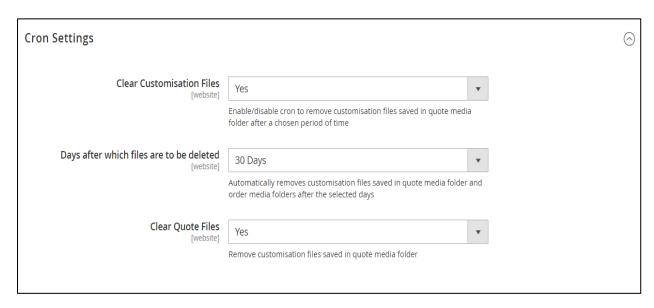


Figure 5: Cron Settings

- Clear Customisation Files: Enable/disable cron to remove customization files saved in quote media folders after a particular period.
- Days after which files are to be deleted: If clear customization files field is enabled, the number of days can be selected after which files are to be deleted through cron job. Three options are set.

30 days, 60 days, 90 days

• Clear Quote Files: If clear customization files field and this field is enabled, admin can remove customization files in quote media folder.

How It Works in Backend

Administrators can set the font faces and clipart through the **Catalog menu** in the **admin panel** (Figure 6). Within this menu, a dedicated submenu for the Product Designer is available. This submenu includes distinct links for Font, Clipart Images, and Clipart Categories.

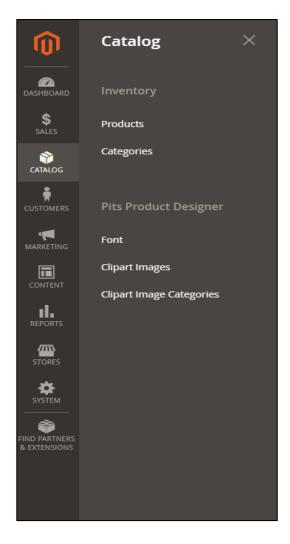


Figure 6: Product Designer Menu

When administrators select the Font link, they are redirected to the Font Details page, where specific details and configurations related to fonts can be managed. Similarly, selecting Clipart leads administrators to the Clipart Details page, offering a centralized space for clipart-related settings. Additionally, administrators can explore the Clipart Categories link to navigate to the Clipart Categories page, where categories associated with clipart are organized and can be modified as needed. This structured navigation within the Catalog menu streamlines the administration of font and clipart elements, providing a user-friendly experience for managing product design aspects.

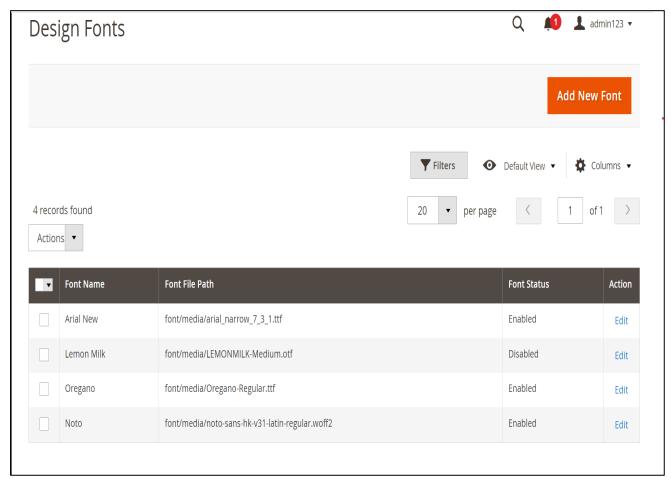


Figure 7: Design Fonts Page

The admin can see the added fonts in this page. The font name and the file path of font face added, and the status of the font is shown. The action in Figure 7 can be set as Delete to multi delete the fonts. The admin can also edit the font by clicking the action 'Edit'. And selecting "Add New Font" above will redirect to an UI form which is for adding new fonts. The admin can set a new font by setting its name and its status, upload a font file with supported font extensions of ttf, woff, woff2, otf and saving the font by clicking Save Font (Figure 8). The fonts with status enabled are shown in frontend. If the fonts are not added or all fonts are disabled, 'Arial' Font is set as default font on frontend.

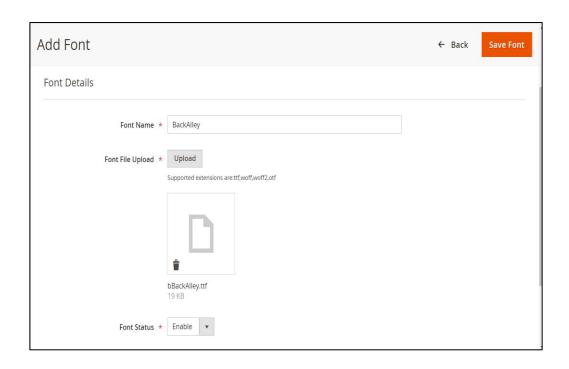


Figure 8: Add Font

Clipart Image Categories

Similarily, admin can direct to clipart image category details page (Figure 9) from Product Designer submenu in Catalog menu.

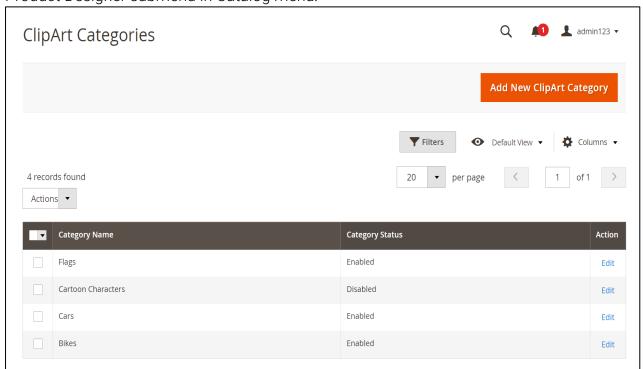


Figure 9: ClipArt Categories

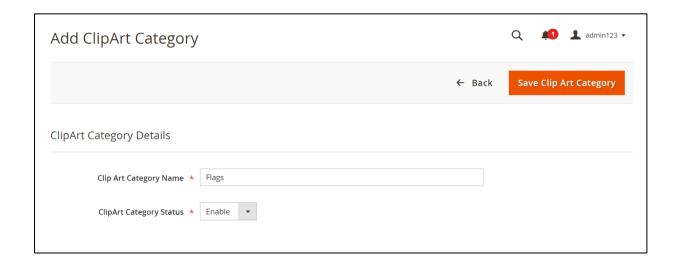


Figure 10: Add ClipArt Category

And selecting "Add New ClipArt Category" above will redirect to an UI form which is for adding new clip art category. The admin can set a new clip art category by setting its name and its status and saving the font by clicking Save Clip Art Category (Figure 10). The clipart categories with status enabled are shown in frontend.

ClipArt

The admin has the capability to associate clip art with each predefined clipart category. The admin can direct to design cliparts page (Figure 11) from Product Designer submenu in Catalog menu

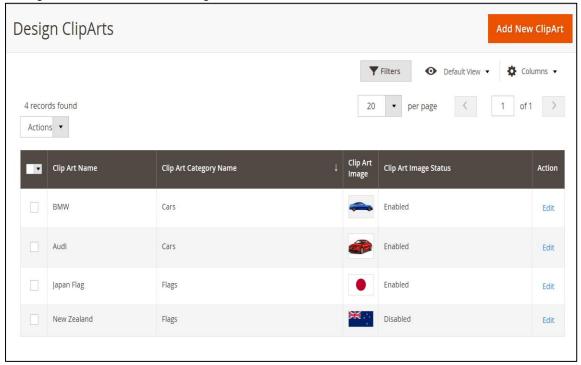


Figure 11: Design ClipArts

And selecting "Add New ClipArt" above will redirect to an UI form which is for adding new clip art. The admin can set a new one by setting its name and its status, **upload** an image with supported font extensions of png, jpg, jpeg and saving the clipart by clicking Save ClipArt (Figure 12). The cliparts with status enabled are shown in frontend.

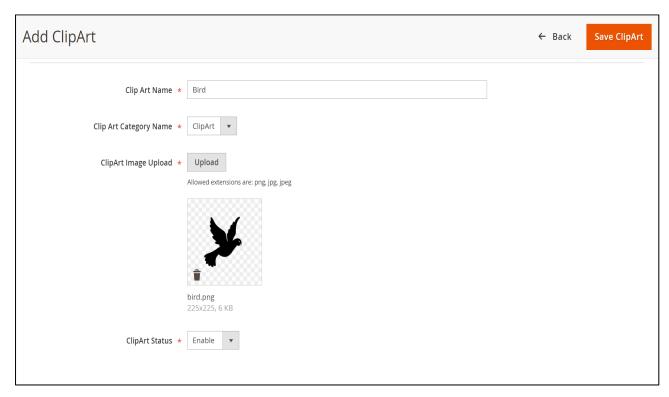


Figure 12: Add New ClipArt

Product Edit Page

Catalog -> Products

Clicking on the "Edit" button of a product will navigate the administrator to the product edit page. On this page, there exists a section named 'Product Designer Options.' Within this section, an attribute named 'Allow Product Design' is provided, allowing administrators to enable or disable the product design feature in Magento 2. This attribute serves as a toggle, giving administrators the flexibility to control whether the product is open for customization through the product design functionality. (Figure 13).

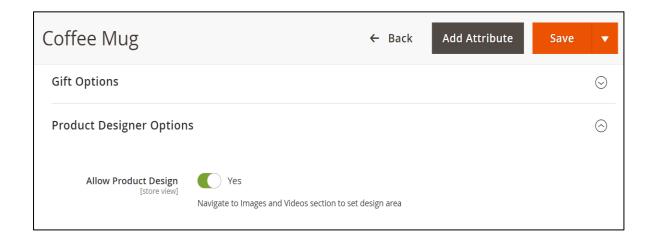


Figure 13 – Product Edit Page with Product Designer Options enabled

Then, the administrator is required to navigate to the "Images and Videos section (Figure 14) to define the prescribed area within the product images (Figure 15).

Note: It's crucial to note that this prescribed area is configured outside the boundaries of the product image.

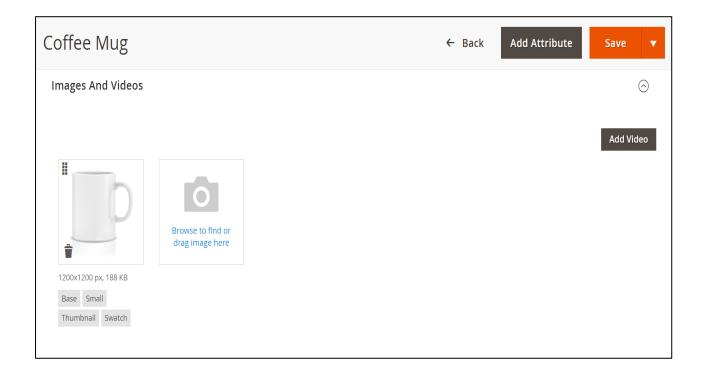


Figure 14: Image and Videos Section

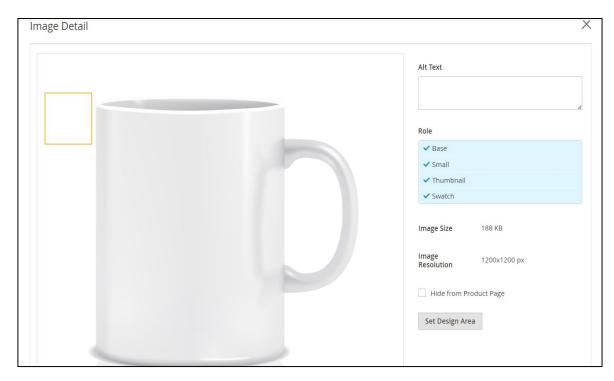


Figure 15: Image Area Before Setting Up for Customization

To visualize and manage this configuration, administrators must click on the button labelled 'Set Design Area' as shown in Figure 15 at which point the prescribed area becomes visible. Administrators can accurately define and fine-tune the prescribed area within which customers can customize their chosen products and save the Product by clicking on 'Save' (Figure 16).

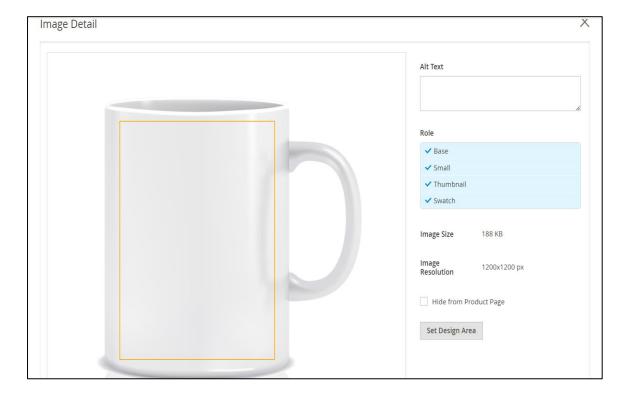


Figure 16: Image Area After Setting Up for Customization

Note: For configurable products, the administrator must follow a two-step process to enable product design. Initially, the product design feature needs to be enabled for the parent configurable product. Then, for each child simple product where customization is required, the administrator should individually enable the product design feature and set the customisation area in images.

After Order Placement

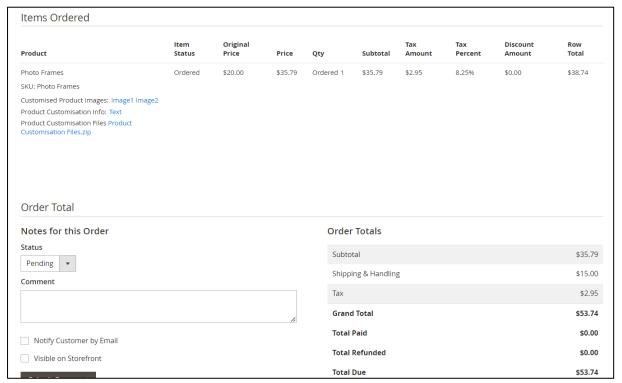


Figure 17: Admin Sales Order View Page with Customization Details

After the placement of an order, all customization files, relevant information, and uploaded images of the item are compiled and compressed into a zip file (Product Customisation Files). This zip file is then made accessible and viewable on the admin sales order view page (Figure 17).

How It Works in Frontend

When customers visit a product page with product design enabled, they will see a button (Figure 18). Clicking this button opens a popup (Figure 19) where customers can personalize and customize the product to their preferences.

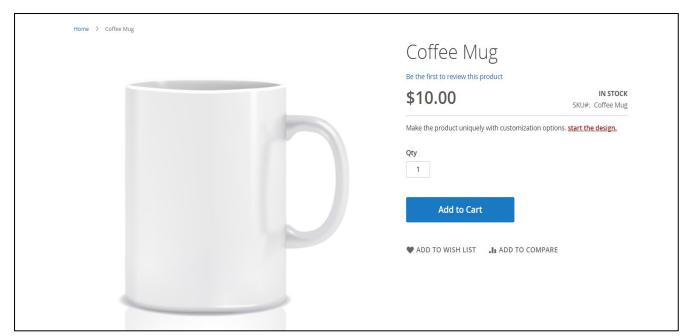


Figure 18: Product Design feature is enabled in the frontend

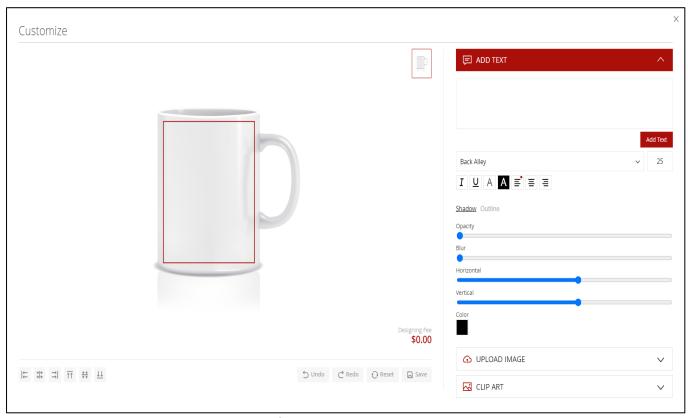


Figure 19: Popup for Product Customization



Figure 20: Customizing product by adding text and clipart, uploading image

The designing fee is an extra charge for customization, and its amount is based on how it is set up in the backend price settings. And it could be free or fixed pricing and pricing per object addition.

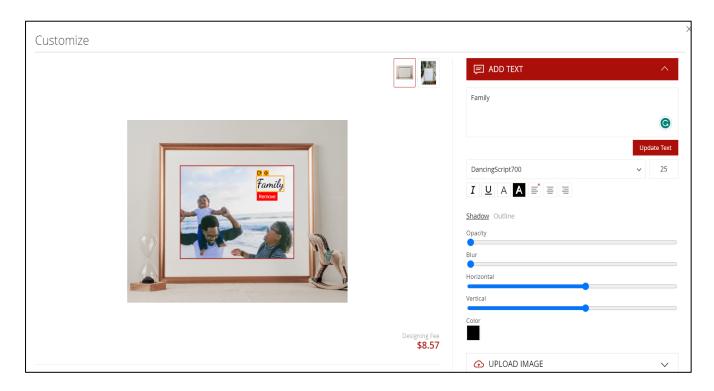


Figure 21: Adding Text

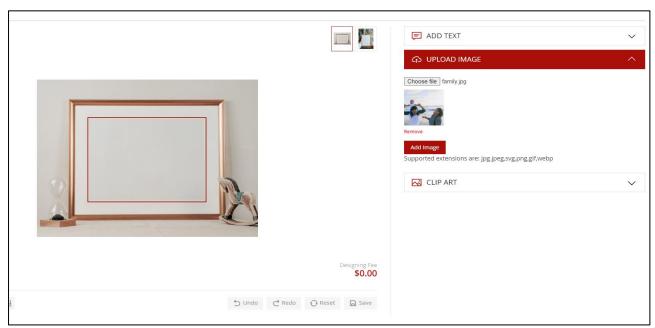


Figure 22: Uploading image

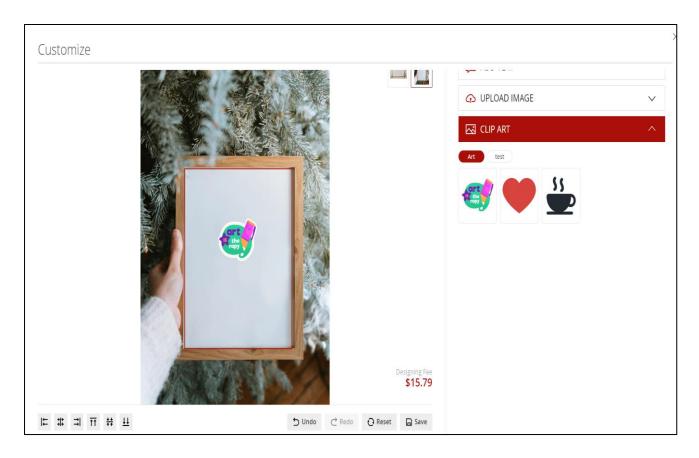


Figure 23: Adding clip art

Within the popup, customers encounter a designated text area (Figure 21) where they

can input their desired text. Customers can utilize the design fonts enabled in the backend for customization. This feature is accompanied by a range of customizable properties, allowing customers to fine-tune the appearance of the text to meet their preferences (Figure 24).

- Font Selection: Choose from a variety of fonts.
- Size Adjustment: Customize the size of the text.
- Color Specification: Select the desired color for the text and background color.
- Shadow Effects: Add shadow effects to enhance the text appearance (Opacity, Blur, Horizontal, Vertical and Color)
- Outline Configurations: Define the outline style for the text.
- Text Rotation: Rotate the text to achieve a preferred orientation.
- Text Alignment: Align multiline text to left, right or center.

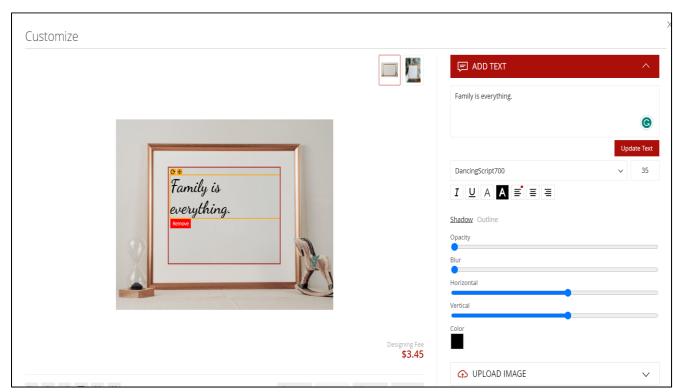


Figure 24: Text Properties

In Figure 22, the customers have the flexibility to upload their own images with supported file extensions such as jpg, jpeg, png, svg, gif and webp. The customers can also add design clipart images which are enabled in the backend for customization (Figure 23).

In the customization interface, customers can easily choose and modify elements like text, images, or clipart. Each element has a handy "Remove" button for quick deletion. Alignment options are available for elements, and customers can also undo or redo their actions.

Additionally, there's a reset button to undo any price adjustments and all customizations made.

- Save Customized Image:
 - o Click on the "Save" button to store the personalized image.
- Switch Between Images:
 - o If there are multiple images for a product:
 - Utilize the thumbnail icon to switch between different images available for customization.
 - Click on the thumbnail icon to view and customize each image individually.

After saving the customized images, customers are presented with a preview on the frontend (Figure 25). This allows them to confirm their design choices before proceeding to add the product to the cart.

Note: Customers retain the flexibility to continue editing customised products until the final confirmation before adding to cart.

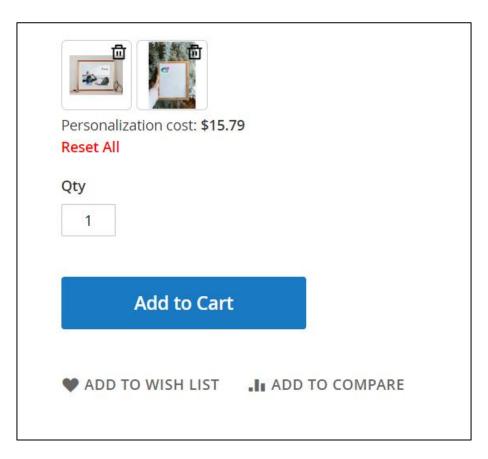


Figure 25: Preview

Minicart

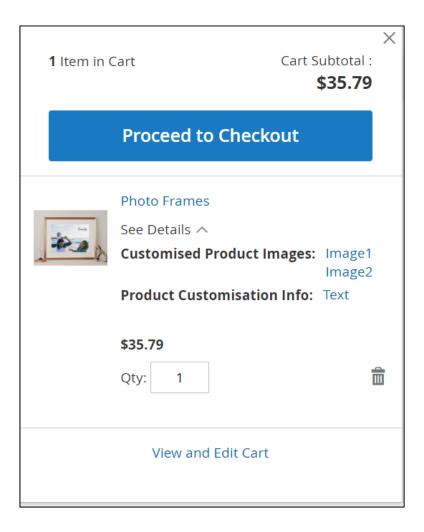


Figure 26: Minicart

Customized Product Images show the two images customized and the product customization information section offers a detailed description of any modified text which is in **pdf format**, specifics about selected clipart and uploaded image in both customized images (Figure 27). The price gets updated from \$20.00 to \$35.79 with the addition of design fee \$15.79. The minicart image has been changed to customized image (Figure 26).

Figure 27: Product Customisation Info

In Figure 26, these are CSS style properties defining the visual attributes of a text element in the first customized image with content 'Family':

- **font-size**: Sets the size of the text to 25 pixels.
- font-weight: Specifies the thickness of the characters; here, it is set to 400.
- font-style: Defines the style of the font as normal.
- color: Determines the text color using RGB values (black in this case).
- **text-decoration**: Controls any additional decoration to the text; here, it is set to none.
- background-color: Sets the background color of the text to transparent.
- **text-shadow**: Adds a shadow effect to the text with specified color and position.
- font-family: Specifies the font family (DancingScript700 in this case).
- **transform**: Applies a rotation transformation to the text; here, it is set to no rotation (0 degrees).
- **left:** Positions the text horizontally at approximately 178.6 pixels from the customized area of the product image.
- **top**: Positions the text vertically at approximately 18.6 pixels from the customized area of the product image.

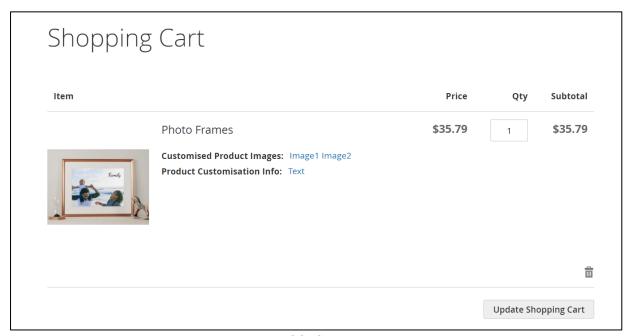


Figure 28: Cart page

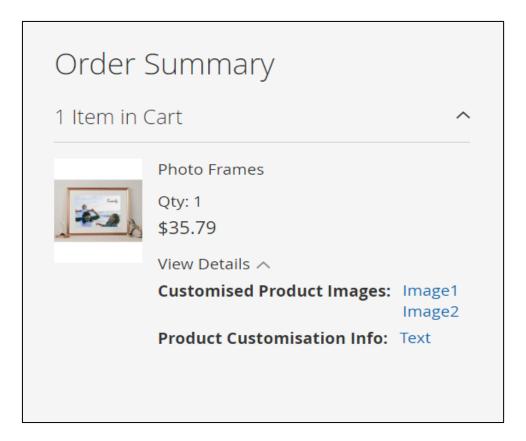


Figure 29: Order Summary in Checkout Page

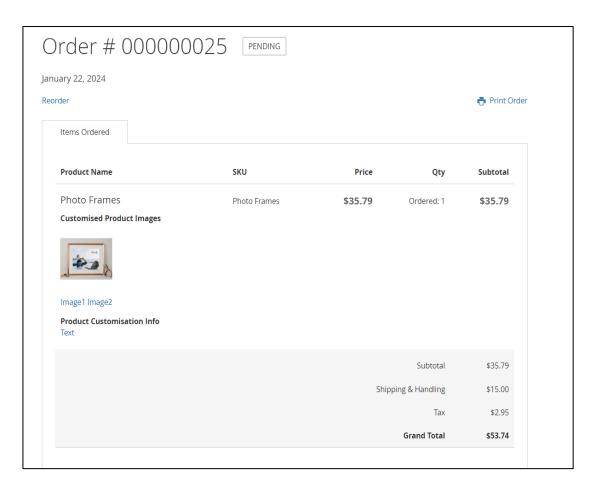


Figure 30: Customer Order View Page

Customized product images and info is shown in cart page, order summary in checkout page and customer order view page (Figure 28, Figure 29 and Figure 30 respectively).

For configurable products:

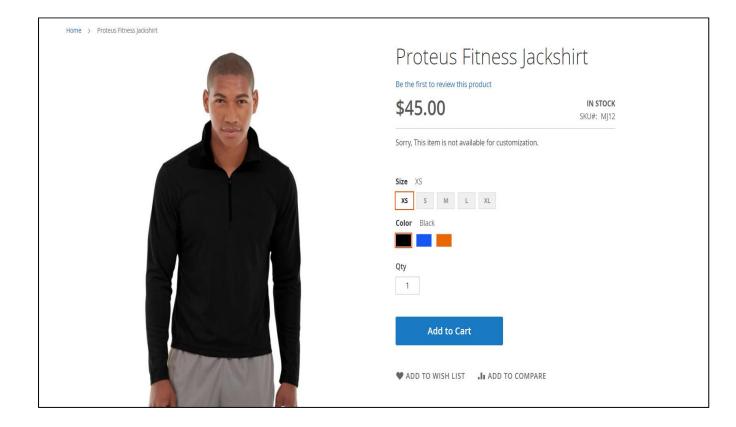


Figure 31: Product Customization Based on Configurations

For configurable products, customization is limited to the specific set of configurations for which product design is enabled and image coordinates are set. Customers can only customize the product within the predefined configurations that have been designated for product design. (Figure 31).

Note: This extension supports only simple and configurable products and its child products.

Limitation

Multi-shipping is not supported.

Reorder is not supported.

Installation Requirements

• Magento 2.3.1-2.4.6 p3

Installation Steps

To install the Product Designer module, follow the steps below.

- 1. Download the module.
- 2. Access your web server directories and unzip and upload the content of the zip file to app/code directory.
- 3. Run the below commands on terminal
 - php bin/magento setup:di:compile
 - php bin/magento setup:upgrade
 - php bin/magento setup:static-content:deploy -f
 - php bin/magento cache:clean

Supported Languages

English, German, Italian

Change Log / Release Notes

Version: 1.0.0: March, 2024

Initial version

Support

If you have questions, use our contact form in https://www.webshopextension.com/ or email to support@webshopextension.com