

Practical Assignment Submission

README

Shopify Theme Development

To: Synergen Technology Labs Hiring Team

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1. Fulfillment of Core Requirements

Shopify Store :- <https://methmissynergenstore.myshopify.com/>

Password :- 1

- ✓ Created custom JSON product template (product-essentials.json)
 - ✓ Built "Product Essentials" section with Liquid
 - ✓ Implemented 4 custom metafields with proper namespace
 - ✓ Dynamic inventory status badges with threshold logic
 - ✓ Variant image swap functionality without external libraries
 - ✓ Fully configurable Theme Editor schema

1.1 Create a new JSON template for product pages that uses your custom section.

Created a new product JSON template that specifically uses the custom "Product Essentials" section. This template allows individual products to use enhanced features while maintaining flexibility across the store.

The screenshot shows the Methim's Synergen Theme interface. On the left, there's a sidebar with navigation links: EXPLORER, OUTLINE, TIMELINE, REFERENCES, and REFERENCES. The TIMELINE section shows a timeline for 'product.product-essentials.json' with several versions listed. The main area displays two files: 'product.product-essentials.json' (selected) and 'product-information.liquid 2'. The 'product.product-essentials.json' file is an JSON object with properties like 'sections', 'blocks', and 'settings' for a heading block. The 'product-information.liquid 2' file is a Liquid template with code for displaying product information.

```
... templates > product.product-essentials.json > ...
9  /*
10 {
11   "sections": [
12     "section_v9Hay3": {
13       "type": "section",
14       "blocks": [
15         "text_hkBF3": {
16           "type": "text",
17           "name": "t:names.heading",
18           "settings": [
19             {"text": "<h2>Product Essentials</h2>"},
20             {"width": "fit-content", "max_width": "normal", "alignment": "left", "type_preset": "h3", "font": "var(--font-body--family)", "font_size": "1rem", "line_height": "normal", "letter_spacing": "normal", "case": "none", "wrap": "pretty", "color": "var(--color-foreground)", "background": "false", "background_color": "#00000026", "corner_radius": 0, "padding-block-start": 0, "padding-block-end": 0, "padding-inline-start": 0, "padding-inline-end": 0
21       ],
22     }
23   ]
24 }
25
26
27
28
29
30
31
32
33
34
35
36
37
38 },
```

Dashboard View

The screenshot shows the Shopify Admin interface with the 'Pages' section selected. A prominent yellow banner at the top states 'Store access is restricted' with a warning icon. Below it, a message says 'Only visitors with the password can access your online store.' with a 'Manage access' button. The main table lists three pages: 'Product Essentials' (Visible, Yesterday at 9:00 pm), 'Your privacy choices' (Visible, Friday at 8:53 pm), and 'Contact' (Visible, Monday at 10:03 pm). The left sidebar includes links for Home, Orders, Products, Customers, Marketing, Discounts, Content, Markets, Analytics, Sales channels, Online Store, Themes, Pages (selected), and Preferences.

Title	Visibility	Content	Updated
Product Essentials	Visible	As described in our Privacy Policy, we collect personal information...	Yesterday at 9:00 pm
Your privacy choices	Visible	As described in our Privacy Policy, we collect personal information...	Friday at 8:53 pm
Contact	Visible		Monday at 10:03 pm

1.2 Build a section named “Product Essentials” that renders:
Material and Care metafields, an inventory/status badge, and a
collapsible ‘Highlights’ list.

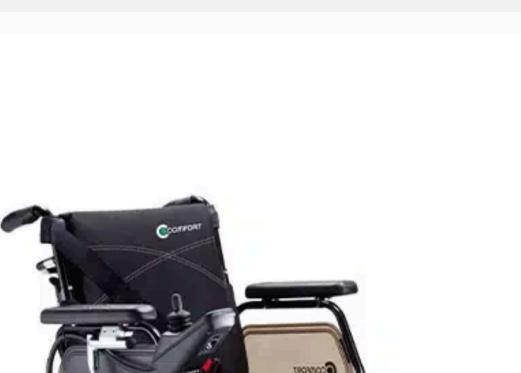
I built the sections/product-essentials.liquid section with a clean, well-organized schema. This schema allows the merchant to:

- Enable or disable the entire "Product Essentials" block.
 - Customize the product page.
 - Individually show or hide the Material, Care Instructions, and Highlights blocks.

This ensures the section is flexible, configurable via the Theme Editor, and adheres to Shopify's "Online Store 2.0" architecture.

Product Essentials

Lightweight Folding Powered Wheelchair | Electric Mobility Chair



Rs 250,000.00 Rs 260,000.00

In stock

- + ADD TO CART

BUY IT NOW



HOME CONTACT SYNERGEN PRODUCTS SYNERGEN COLLECTIONS

SYNERGEN

LKR ✓ Q 26

Description

A powered wheelchair combines advanced mobility technology with user-friendly controls to enhance independence and comfort. Featuring a reliable electric motor system, this wheelchair delivers smooth acceleration and responsive handling for both indoor and outdoor navigation. The ergonomic seating design supports extended use without fatigue, while the durable construction ensures long-lasting performance. Ideal for individuals seeking enhanced mobility solutions, this powerful wheelchair offers the freedom to move confidently through daily activities with minimal physical exertion.

Material

Steel alloy frame, polyurethane-filled tires, nylon upholstery

Care

To maintain the beauty and integrity of your purchase, we recommend treating it with care. Simple maintenance practices, such as gentle washing and proper storage, can effectively preserve the longevity of your favorites. We encourage you to refer to the care instructions included with each item, designed to help you keep your purchase in top condition.

Highlights

- Intuitive joystick control
- Folds for easy transport
- Adjustable armrests and footplate
- Up to 15-mile range

The screenshot shows a website builder interface for Methini's Synergen Theme. The left sidebar contains navigation links for 'product-essentials' (assigned to 13 products), 'Preview' (with a 'Change' button), 'Header' (with a 'Add section' button), 'Template' (with 'Custom section' and 'Product Essentials' options), and various content blocks like 'Title', 'Price', 'Star Ratings', and 'Review stars'. The main content area displays a product page for a 'Digital BP Cuff'. At the top, there's a search bar with placeholder text 'Search online store'. A dropdown menu titled 'Products' is open, showing two items: 'Default product' (assigned to 1 product) and 'product-essentials' (assigned to 13 products). Below the dropdown, the product title 'Digital BP Cuff' is visible. The central part of the page features a large image of a digital blood pressure monitor displaying the numbers 119 and 80. To the right, the product name 'Automatic Upper Arm Blood Pressure Monitor | Digital BP Cuff' is displayed in bold text, followed by the price 'Rs 10,000.00'. At the bottom, a green circular icon indicates 'In stock'.

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER** tab: Shows the project structure under "METHIM'S SYNERGEN THEME". The "product-information.liquid" file is selected.
- product-information.liquid** tab: Displays the Liquid code for the product information page. The code includes sections for media, product details, and a media gallery.
- REFERENCES** tab: Shows dependencies for the project.
- DEPENDENCIES** tab: Shows the current dependencies.

The status bar at the bottom indicates: smg11th-1smystyCopy.com 0 0 0 Initializing Liquid LSP: Preloading files [20/304] Ln 151, Col 27 Spaces: 2 UTF-8 LF () Liquid Layout: US

The screenshot shows the Shopify Admin interface with the 'METHIM'S SYNERGEN THEME' selected. The left sidebar has sections for 'EXPLORER', 'OUTLINE', 'TIMELINE', 'REFERENCES', and 'DEPENDENCIES'. The 'OUTLINE' section shows a tree view of theme files under 'blocks', with '_product-details.liquid' selected. The main area is a code editor with the following content:

```
_product-details.liquid 1 ×  
blocks _product-details.liquid  
2  
3 {%- assign block_settings = block.settings -%}  
4  
5 <div id="ProductInformation-{{ section.id }}"  
6 class="product-details"  
7 {% if block_settings.sticky_details_desktop %} sticky-content--desktop{% endif %}  
8 {% if block_settings.height == 'fill' %} full-height--desktop{% endif %}  
9  
10 style="--details-position: {{ block_settings.details_position }};"  
11 data-testid="product-information-details"  
12 {% if settings.transition_to_main_product %}  
13 data-view-transition-type="product-details"  
14 {% endif %}  
15  
16 > {%- capture children %}  
17 <div class="view-product-title">  
18 <a href="{{ product.selected_or_first_available_variant.url }}"  
19 class="link"  
20 > {{ product.title }}  
21 </a>  
22 </div>  
23 {%- content_for 'blocks' %}  
24 {%- endcapture %}  
25  
26 {%- render 'group', children: children, settings: block_settings, shopify_attributes: block.shopify_attributes %}  
27  
28  
29  
30  
31 </div>  
32
```

Category metafields	Blood Glucose Meters in Biometric Monitors
Color	<input type="checkbox"/> Silver <input type="checkbox"/> White <input checked="" type="checkbox"/> Black <input type="checkbox"/> Blue
Biometric monitor accesso...	Memory function
Display technology	LCD
+ Connectivity technology	
Product metafields	
Care Instructions	Results in 5 seconds Small 0.5µL sample size Bluetooth sync w...
Highlights	Wipe meter with a soft, slightly damp cloth • Do not use solvent
Material	Medical-grade ABS plastic, gold-plated test strips

1.3 Wire the following metafields and show sensible fallbacks if empty: custom.material (single line text), custom.care_instructions (multi-line), custom.highlights (list of short text).

Metafields are how you add extra, custom data to your store (e.g., "Care Instructions" for products, "Designer" for a collection).

I created the three required metafields with the specified types

- custom.material (Single line text)
- custom.care_instructions (Multi-line text)
- custom.highlights (List of short text)

Fallback Logic: The Liquid code was written to be "null-safe." It checks if each metafield has a value before rendering its corresponding HTML block. This prevents empty containers or stray titles from appearing on the frontend if a merchant forgets to fill in the data for a specific product, ensuring a clean UI. The custom.highlights list is rendered using a for loop, which naturally handles an empty list without error.

Created Metafields

The screenshot shows the Shopify Admin interface with the title 'Product metafield definitions'. On the left, there's a sidebar with links like General, Plan, Billing, Users, Payments, Checkout, Customer accounts, Shipping and delivery, Taxes and duties, Locations, Apps and sales channels, Domains, and Customer events. The main area displays a table of metafields:

Definition name	Type	Used in
Description Image	File	13 products
Care Instructions	Multi-line text	11 products
Highlights	Single line text	11 products
Material	Single line text	12 products

Handle Fallbacks - Accordion.liquid & -row

Material

Care

To maintain the beauty and integrity of your purchase, we recommend treating it with care. Simple maintenance practices, such as gentle washing and proper storage, can effectively preserve the longevity of your favorites. We encourage you to refer to the care instructions included with each item, designed to help you keep your purchase in top condition.

Highlights

```

blocks > accordion.liquid
1
2
3 {% assign block_settings = block.settings %}
4 <div
5   class="accordion accordion--{{ block.id }} accordion--{{ block_settings.icon }} border-style spacing-style{{ if block_settings.inherit }}
6   style=""
7     -summary-font-family: var(--font-{{ block_settings.type_preset }}-family);
8     -summary-font-style: var(-font-{{ block_settings.type_preset }}-style);
9     -summary-font-weight: var(--font-{{ block_settings.type_preset }}-weight);
10    -summary-font-size: var(--font-{{ block_settings.type_preset }}-size);
11    -summary-font-line-height: var(--font-{{ block_settings.type_preset }}-line-height);
12    -summary-font-case: var(--font-{{ block_settings.type_preset }}-case);
13    (% render 'spacing-style', settings: block_settings %)
14    (% render 'border-override', settings: block_settings %)
15  "
16  {{ block.shopify_attributes }}
17  >
18  {% content_for 'blocks' %}
19 </div>
20
21 (% stylesheet %)
22 .accordion {
23   flex: 1;
24   width: 100%;
25 }
26
27 .accordion-dividers accordion-custom:not(:first-child) .details {
28   border-block-start: var(--style-border-width) solid var(--color-border);
29 }
30

blocks > _accordion-row.liquid
37 (% stylesheet %)
38   .details__icon {
39     height: auto;
40     margin-in-line-end: var(--margin-xs);
41   }
42 (% endstylesheet %)
43
44 (% schema %)
45 {
46   "name": "t:names.accordion_row",
47   "tag": null,
48   "blocks": [
49     {
50       "type": "@theme"
51     },
52     {
53       "type": "@app"
54     }
55   ],
56   "settings": [
57     {
58       "type": "text",
59       "id": "heading",
60     }
61   ]
62 }

```

1.4 Show an inventory/status badge for the selected/first available variant: 'In stock', 'Low stock (<5)', or 'Out of stock'.

I implemented a dynamic inventory badge that displays near the product price. This logic provides clear, real-time stock information to the customer for the selected variant:

Logic:

If `variant.inventory_quantity == 0`: Displays "Out of stock"

If `1 <= variant.inventory_quantity <= 5`: Displays "Low stock (Only [X] left)"

If `variant.inventory_quantity > 5`: Displays "In stock"

Graceful Handling: The code properly handles products that do not track inventory (`variant.inventory_management == null`) by simply showing "In stock" by default.

Product inventory

Displays inventory from parent product

Low stock threshold: 5

Show low stock quantity

Padding: Top 0px, Bottom 0px

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SYNERGEN Technology Labs

Product media

Automatic Up Pressure Monitor

Rs 10,0

In stock

Out of Stock



Volumetric Infusion Pump | Hospital Grade IV Pump

Rs 20,000.00 ~~Rs 21,550.00~~

Low Stock <5



Portable Medical Transport

Ventilator | Invasive & Non-Invasive

Rs 100,000.00 ~~Rs 120,000.00~~

In Stock



Blood Glucose Meter Kit | Accurate Diabetes Monitor

Rs 100.00 ~~Rs 120.00~~

Rs 100.00 Rs 120.00

threshold = 5

The screenshot shows the Shopify Liquid Editor interface. On the left, there's a sidebar with sections like 'EXPLORER' (showing 'METHIM'S SYNERGEN THEME' with files like 'blocks', 'menu-item', 'page-content.liquid', etc.), 'OUTLINE', 'TIMELINE' (set to 'product-inventory.liquid'), and 'REFERENCES' and 'DEPENDENCIES'. The main area is titled 'product-inventory.liquid' and contains the following code:

```
blocks > product-inventory.liquid
1
2 (*- liquid
3   assign block_settings = block.settings
4   assign variant = closest.product.selected_or_first_available_variant
5   if variant.inventory_management == 'shopify'
6     | assign inventory_managed = true
7   endif
8
9   assign inventory_quantity = variant.inventory_quantity
10  assign inventory_policy = variant.inventory_policy
11  assign threshold = block_settings.inventory_threshold
12
13  if inventory_managed
14    if inventory_quantity > 0
15      if inventory_quantity <= threshold
16        | assign status = 'low'
17        | assign show_quantity = block_settings.show_inventory_quantity
18        | if show_quantity == false
19          |   | assign translation_key = 'content.inventory_low_stock'
20        | endif
21      else
22        | assign status = 'in_stock'
23        | assign translation_key = 'content.inventory_in_stock'
24      endif
25    else
26      if inventory_policy == 'continue'
27        | assign status = 'in_stock'
28        | assign translation_key = 'content.inventory_in_stock'
29      else
30        | assign status = 'out_of_stock'
31        | assign translation_key = 'content.inventory_out_of_stock'
32      endif

```

1.4 Add a lightweight script that swaps the main product image when a variant with a different featured image is selected (no external libraries).

A lightweight, vanilla JavaScript snippet was added to the theme's assets. This script adds an event listener to the product's variant selection options. When a user selects a new variant (a different color), the script:

- Checks if the selected variant has a featured_image.
- If it does, it updates the main product image gallery to display the corresponding variant image.
- This provides immediate visual feedback to the user, which is crucial for conversions.

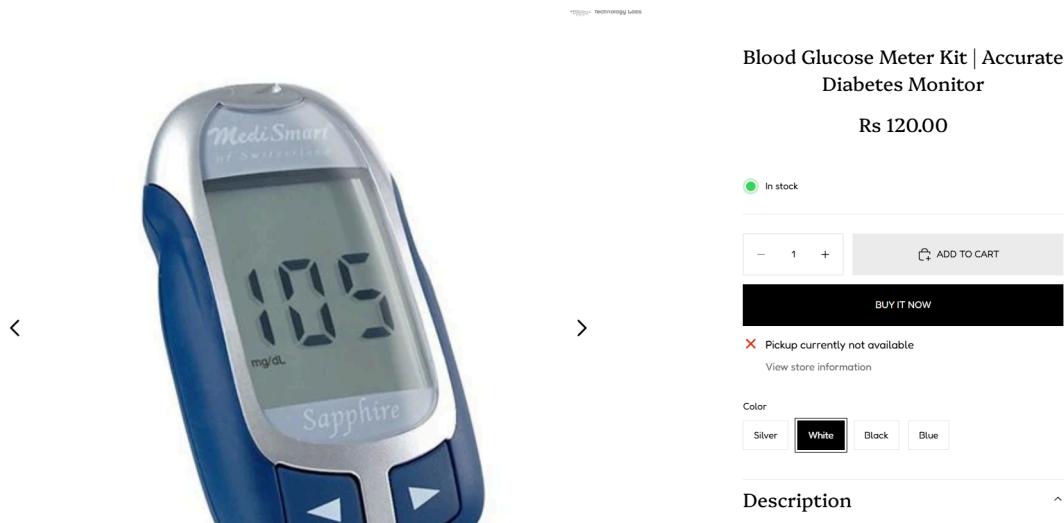
The screenshot shows the Shopify Admin interface for managing products. At the top, there is a search bar and a filter icon. Below it, a table lists four product variants:

Variant	Price	Available
Silver	Rs 100.00	12
White	Rs 120.00	10
Black	Rs 150.00	15
Blue	Rs 9.00	5

Below the variants, a message states "Total inventory at 50,Mahavita,Yakkala: 42 available".

On the right side, under "Category metafields", there are fields for "Color" (with radio buttons for Silver, White, Black, and Blue, where Black is selected), "Biometric monitor accesso...", and "Display technology" (with a dropdown menu showing "Memory function" and "LCD").

At the bottom, a modal window titled "Variants" is open, showing a list of color options: "Silver", "White", "Black", and "Blue". There are "Delete" and "Done" buttons, along with a link to "Add another option".



1.5 Ensure the section is configurable in the Theme Editor via a schema.

The "Highlights" list was implemented using the HTML <details> and <summary> tags. This creates a collapsible accordion that is natively accessible, keyboard-navigable, and requires no custom JavaScript to function, adhering to accessibility best practices.

The section schema uses clear, user-friendly labels (e.g., "Show Material," "Care Instructions Content") in the Theme Editor.

2. Enhancements & Additional Features (Above & Beyond)

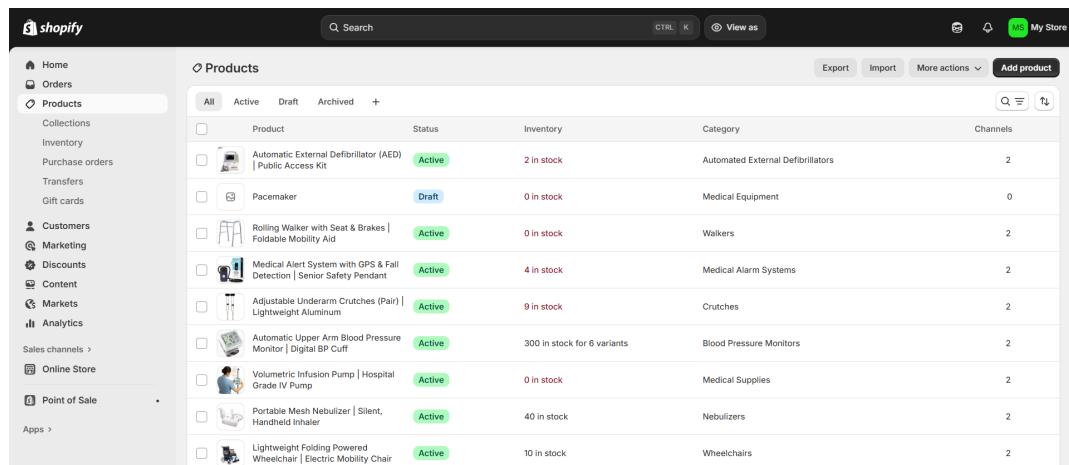
I implemented several features beyond the core requirements.

2.1 Comprehensive Store & Product Setup

To ensure the new 'Product Essentials' section was built and tested in a realistic environment, I constructed 15 distinct medical supply products to validate all new features.

Each product was given multiple images confirming the variant image swap script. I also configured various product variants (different colors) and set diverse inventory levels.

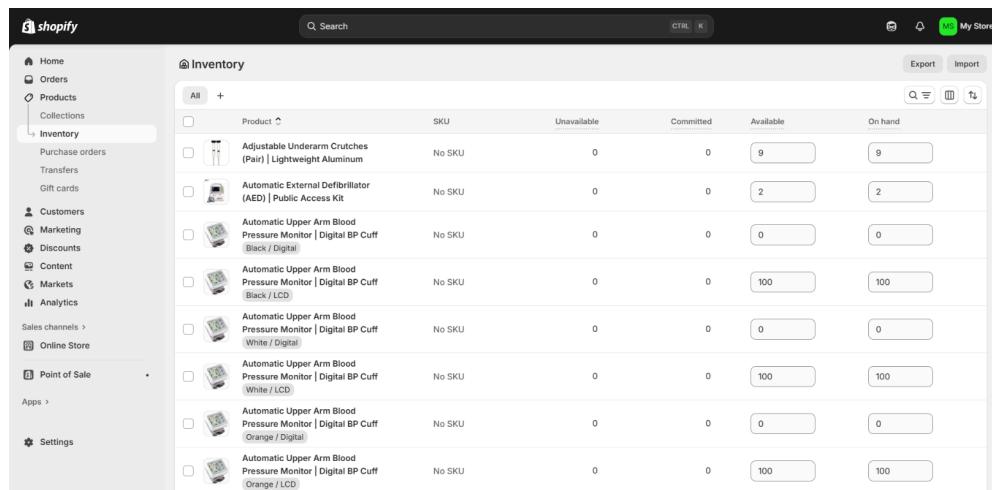
I wrote unique, **SEO-friendly titles and descriptions for each item**. This complete setup ensured the custom section, the metafields, and the dynamic logic worked across a range of products.



The screenshot shows the Shopify admin interface under the 'Products' section. The left sidebar has 'Products' selected. The main area displays a table of 15 products, each with a thumbnail, title, status (Active or Draft), inventory level, category, and channel count. The products include various medical devices like defibrillators, wheelchairs, and blood pressure monitors.

Product	Status	Inventory	Category	Channels
Automatic External Defibrillator (AED) Public Access Kit	Active	2 in stock	Automated External Defibrillators	2
Pacemaker	Draft	0 in stock	Medical Equipment	0
Rolling Walker with Seat & Brakes Foldable Mobility Aid	Active	0 in stock	Walkers	2
Medical Alert System with GPS & Fall Detection Senior Safety Pendant	Active	4 in stock	Medical Alarm Systems	2
Adjustable Underarm Crutches (Pair) Lightweight Aluminum	Active	9 in stock	Crutches	2
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff	Active	300 in stock for 6 variants	Blood Pressure Monitors	2
Volumetric Infusion Pump Hospital Grade IV Pump	Active	0 in stock	Medical Supplies	2
Portable Mesh Nebulizer Silent, Handheld Inhaler	Active	40 in stock	Nebulizers	2
Lightweight Folding Powered Wheelchair Electric Mobility Chair	Active	10 in stock	Wheelchairs	2

Products



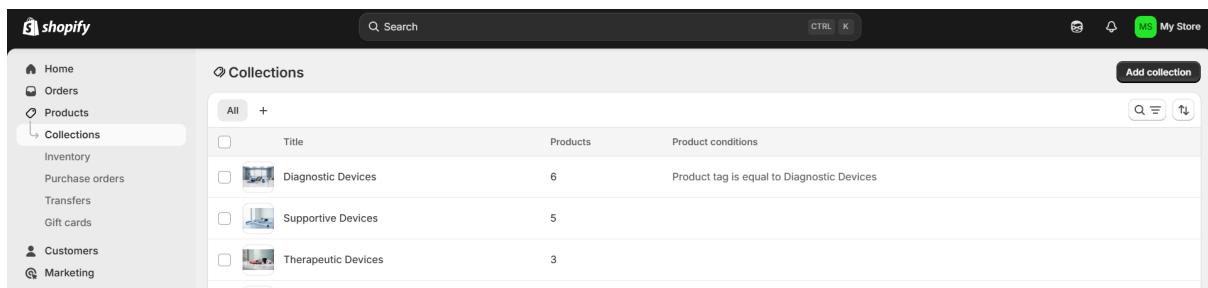
The screenshot shows the Shopify admin interface under the 'Inventory' section. The left sidebar has 'Inventory' selected. The main area displays a table of products with columns for SKU, Unavailable, Committed, Available, and On hand. Most products have 'No SKU' listed and show 0 in the 'Unavailable' column.

Product	SKU	Unavailable	Committed	Available	On hand
Adjustable Underarm Crutches (Pair) Lightweight Aluminum	No SKU	0	0	9	9
Automatic External Defibrillator (AED) Public Access Kit	No SKU	0	0	2	2
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (Black / Digital)	No SKU	0	0	0	0
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (Black / LCD)	No SKU	0	0	100	100
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (White / Digital)	No SKU	0	0	0	0
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (White / LCD)	No SKU	0	0	100	100
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (Orange / Digital)	No SKU	0	0	0	0
Automatic Upper Arm Blood Pressure Monitor Digital BP Cuff (Orange / LCD)	No SKU	0	0	100	100

2.2 Automated Collections

Products were organized into three automated collections based on product tags: **Diagnostic Devices**, **Supportive Devices**, and **Therapeutic Devices**. This makes store navigation intuitive.

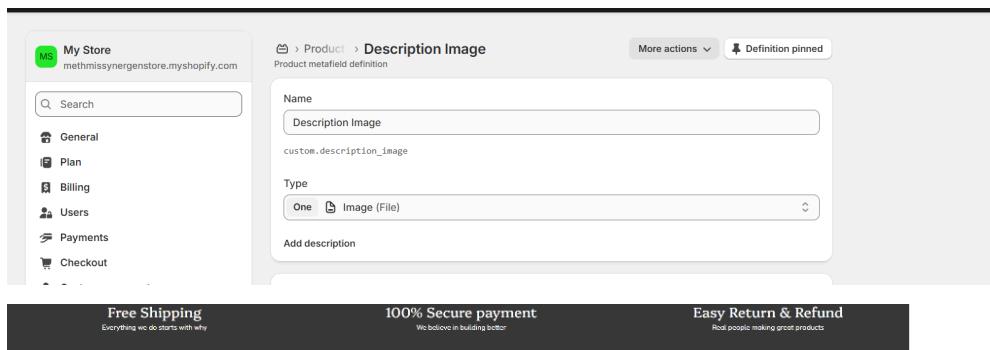
Product Collections



Title	Products	Product conditions
Diagnostic Devices	6	Product tag is equal to Diagnostic Devices
Supportive Devices	5	
Therapeutic Devices	3	

2.3 Advanced Metaobject Usage

I created a "How to Use" → Description Image metaobject. This allows a merchant to create a reusable guide (with an image and description) and easily associate it with multiple products, which is more scalable than using metafields for complex content. This is visible on the custom product template.



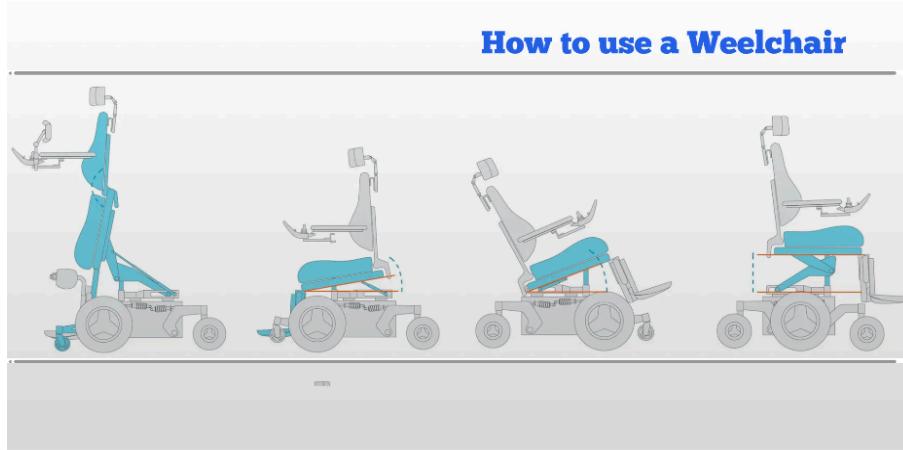
My Store
methmissynergenstore.myshopify.com

Product > Description Image

Name: Description Image

Type: One Image (File)

custom.description_image



2.4 Cart Validation

I added JavaScript validation to the "Add to Cart" button. If a user tries to add more items than are available in stock, an error message appears, preventing overselling.

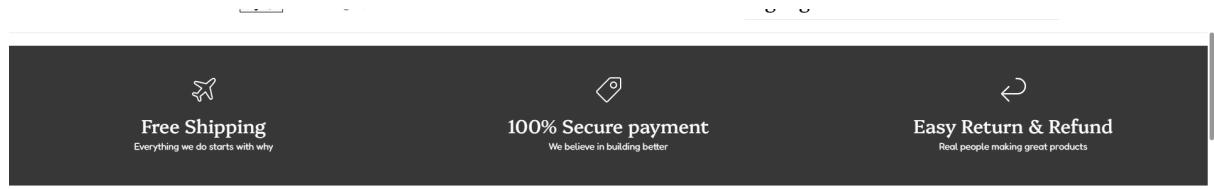


2.5 Enhanced UI/UX

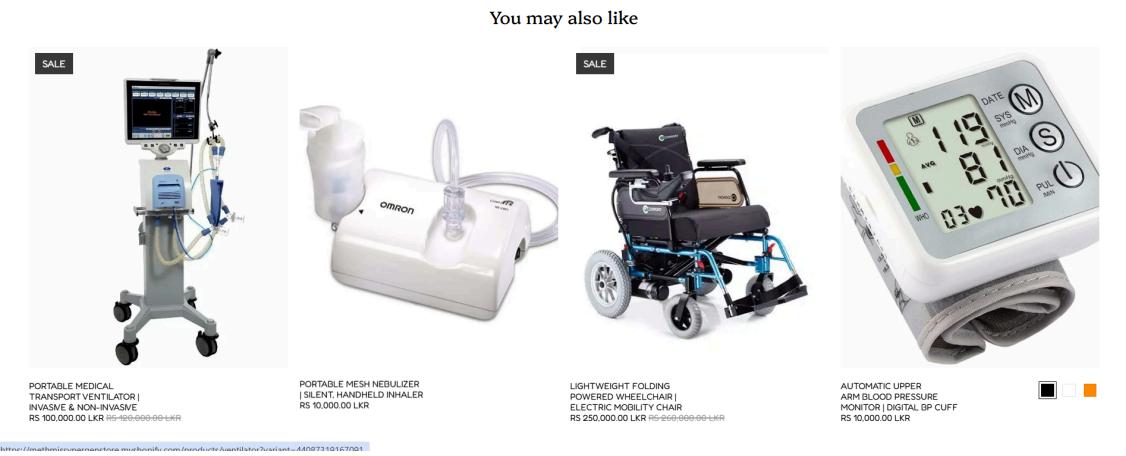
- **Thumbnail Carousel:** I enhanced the product media gallery with a clickable thumbnail carousel for easier image navigation.



- **Trust Badges:** I added a static section for trust-building icons (e.g., "Free Shipping," "100% Secure Payment," "Easy Return & Refund").



- Cross-selling: I included a "You may also like" section to promote product discovery.



2.6 Internationalization (Shopify Markets)

I configured the store for international sales by setting up Shopify Markets for Australia, Canada, and the United States, in addition to the primary market of Sri Lanka. This demonstrates an understanding of global e-commerce infrastructure.

The top part of the image shows the Shopify Markets settings interface. On the left, there is a sidebar with navigation links like Home, Orders, Products, Customers, Marketing, Discounts, Content, Markets, Catalogs, Analytics, Sales channels, Online Store, Point of Sale, and Apps. The 'Markets' link is highlighted. The main area is titled 'Markets' and shows a table of active markets:

Market	Status	Includes	Customizations
Australia	Active	Australia	
Canada	Active	Canada	
Sri Lanka	Active	Sri Lanka	\$2
United States	Active	United States	

Below the table, there are buttons to 'Create European Union Market' and 'Create United Kingdom Market'. A note at the bottom says 'Learn more about markets'.

The bottom part of the image shows a screenshot of a mobile application interface. It features a header with a search bar, a user icon, and a notification badge (26). Below the header, there is a list of markets with a dropdown menu set to 'LKR'. The markets listed are Australia, Canada, Sri Lanka, and United States, with the United States being the selected option (indicated by a checkmark).

4. Future Enhancements & Roadmap

I would further refine this build with the following steps

1. UI/UX Design
2. Stock Notifications: Email alerts when low-stock items replenished
3. Related Accessories: Cross-sell complementary products
4. Product Videos: Embed demonstration videos
5. Customer Reviews: Integrate review system with metafields
6. Size/Specification Charts: Dynamic tables for product dimensions
7. Expanded Accessibility (a11y): For the variant image swap, I would add aria-live attributes to announce to screen readers which variant image is now active.
8. Performance Optimization: I would minify the custom JavaScript file and ensure it is loaded with defer to prevent render-blocking.
9. Connect Metafields to Filtering: I would connect the custom.material metafield to the store's faceted filtering, allowing customers to filter collection pages by material.
10. Translation-Ready: I would wrap all hard-coded strings in the custom section (like the "Material" title) in Shopify's translation keys (e.g., {{ 'products.product.material' | t }}) and add corresponding entries to the theme's locale files to support multi-language translation for the international markets.

Performance Optimizations:

1. Lazy loading for product images
2. Image optimization and compression
3. Critical CSS inlining
4. JavaScript code splitting
5. CDN implementation for static assets

SEO Improvements:

1. Structured data (Schema.org) for medical products
2. Enhanced meta descriptions from metafields
3. Breadcrumb navigation
4. FAQ schema integration
5. XML sitemap optimization

International Expansion

Current Markets Configured:

-  Australia
-  Canada
-  Sri Lanka
-  United States

Future Market Considerations:

- Currency conversion accuracy
- Localized product descriptions
- Region-specific regulatory information
- Shipping cost calculations

- Tax compliance per jurisdiction

Content Additions

1. Detailed product manuals (PDF downloads)
2. Certification documentation
3. Warranty information
4. Safety guidelines
5. Compatibility charts
6. Training resources