

Project Scope

1. Executive Summary & Objectives

DTDS, a well-known distributor wants to implement and commission online portal for electronics components sales apart from tradition distribution sales. The objective is to expand the geographical sales regions, more product lines sellable, expand new customers and enhance customers engagement through digital marketing with analytics.

2. Project Scope

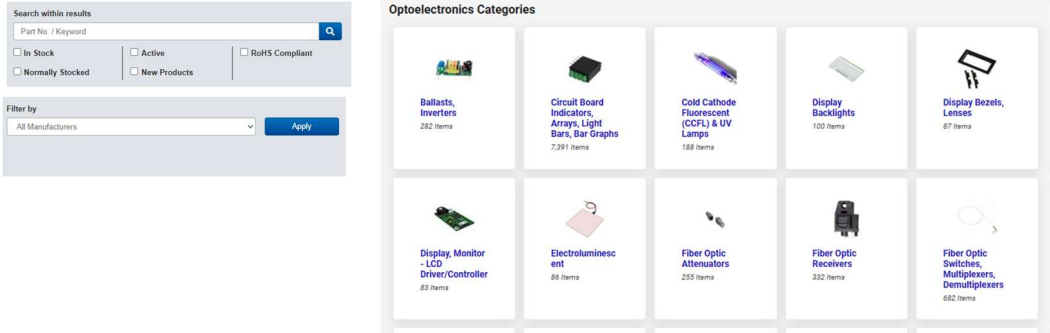
Project is divided into 2 phases:

Phase 1 – E-commerce platform standalone

- A. Propose to use Odoo e-commerce with ERP back-end function for seamless integration and ease of customization.
- B. Responsive web design with mobile browser support.
- C. Website theme selection based on multiple product selection customized for electronic components product.
- D. Header menu Product page, Manufacturers, and Services and Tools.
- E. Side bar, Product Categories

- Circuit Protection >
- Connectors >
- Electromechanical >
- Embedded Solutions >**
- Enclosures >
- Engineering Tools >
- Industrial Automation >
- LED Lighting >
- Memory & Data Storage >
- Opto-electronics >
- Passive Components >
- Power >
- RF & Wireless >
- Semiconductors >
- Sensors >
- Test & Measurement >

F. Products page. Search and filter input. This can place at the side bar. Example, as below.

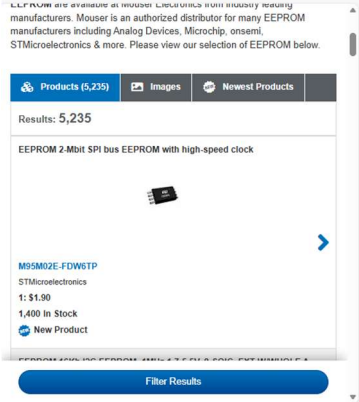


Sub-categories selections to show on product page main section.

G. Display UI product item table, not limited to these should consist of thumbnail image, manufacturer name, part number (part#), descriptions, Quantity Available, step pricing information, SPQ and product status.

Buy Selected		Compare Selected (up to 20)		Download Table (.CSV)						
Select	Image	Part #	Mfr.	Description	Datasheet	Availability	Pricing (SGD)	Qty.	RoHS	ECAD Model
<input type="checkbox"/>		Mfr. Part No. M95M02E-FDW6TP Mouser Part No 511-M95M02E-FDW6TP New Product	STMicroelectronics	EEPROM 2-Mbit SPI bus EEPROM with high-speed clock Learn More	Datasheet	1,400 In Stock	Price by Qty. Cut Tape 1 \$1.90 10 \$1.75 25 \$1.71 50 \$1.67 100 View Reel 4,000 \$1.50	Buy Min.: 1 Mult.: 1 Reel: 4,000		

Below illustrate when mobile browser is used. Show only essential information.



H. Display item contains product item image (main + 2 images), manufacturer name, part number (part#), descriptions, Quantity available, step pricing information (qty/Unit Price/Ext. Price), Factory SPQ, unit weight (kg), Factory lead-time, datasheet (document link). Standard Add to Cart process flow. Example below.

Quantity: 3,800
 20-27 working days

1000

Quantity	Unit Price	Ext. Price
1,000	\$0.7549	\$754.90
		\$754.90

Add to Cart Buy Now

MOQ 1,000 Mult 1

- I. Option in the admin back-end to allow selection online buy mode or Request for Inquiry mode that will send message to admin.
- J. Display attribute value: Base Product Number, Mfg Device Packages, HTSUS, ECCN, Product Status, etc.

Product Attributes	
TYPE	DESCRIPTION
Category	Integrated Circuits (ICs) Power Management (PMIC) Power Management - Specialized
Manufacturer	Texas Instruments
Series	-
Packaging	Tape & Reel (TR) ⓘ Cut Tape (CT) ⓘ Digi-Reel® ⓘ
Part Status	Active
Applications	Cellular
Current - Supply	-
Voltage - Supply	2.7V ~ 5.5V
Operating Temperature	-30°C ~ 90°C
Mounting Type	Surface Mount
Package / Case	16-WFBGA, DSBGA
Supplier Device Package	16-DSBGA

- K. Hidden product attribute value: Country of Origin. This is for calculation of freight.
- L. PDF Datasheet document storage and allow online download with account sign-up / in.
- M. Stripe Payment gateway integration for credit card processing. PCI-DSS compliance
- N. E-document generation for customer to sign digitally on portal after payment done.
- O. Standard flow process from browsing, create account, add to cart, confirm buy, make payment, admin process order, confirm sales order, create invoice, create packing list, delivery order note, pack list and shipping detail.
- P. Email sender integration for order and delivery notification, marketing, etc.

- Q. Integrated with international courier on UPS for shipping cost charge and Duties and Taxes charges via API default setting. Default generated by courier service provider on packing and shipping label.
- R. Check-out preview page to show breakdown by Total item price, Shipping fees, Duty and VAT/GST, and Grand total. Insert note to notification buyer if duty and VAT/GST charges are not able to determine during checkout, it may result in the customer paying VAT/GST at the time of delivery.
- S. User new sign-in verification on email to prevent robot sign-up.
- T. Inventory management inclusive of return material process flow.
- U. Data security with 2FA authentication on back-end admin access.

Phase 2 – API link E-commerce platform and SAP

- A. Develop API connector to link with external partners on product information and inventory.
- B. Develop API link with internal SAP for inventory, SO, invoice, etc.

Phase 3 (Optional phase, out-of-scope)

- A. Artificial Intelligence (AI) integration on product recommendation using RAG methodology. The objective is to recommend product from DTDS franchised line to user based on their key word description, feature and function. The recommended product will draw from own database and not from external general database.
- B. Tech Forum section for product marketing, FAE, H/W or S/W design engineer to share design architect, technical issue and recommendation, etc. This forum page is modulated by admin in the back-end. The objective is to build eco-system partners and share knowledge to promote product usage.