

Machine Coding Round Ten

Inventory Management

The goal of this assignment is to create an inventory management app using React JS.

Instructions:

1. Create this application using React JS Hooks.
2. JSON data has been provided below. Feel free to add more data to it, if you want.
3. Use React Router for routing.
4. This is a frontend assignment. No backend involved.
5. You can use plain CSS or any CSS library you want. Make sure that you focus on completing the functionalities first.
6. You have to host your site live and submit the live link along with Github link of your code or you can choose to code on CodeSandbox and submit the CodeSandbox link.
7. You have to complete the below mentioned features and make your submission here on LMS by 10:00PM IST, 12th August 2023.
8. You can use google for your coding errors and queries.

MUST Do features to pass this MCR:

1. Inventory Dashboard
2. Departments Page
3. Product List Page
4. Product Management (Data persistence is mandatory)

App Features:

Key features of this app includes:

1. Inventory Dashboard: This dashboard provides an overview of inventory levels, including the total stock count, low-stock items, and items delivered till now. These cards are not clickable, they just show the data.

- Total Stock is total quantity of all the items that exist in the inventory.
- Total Delivered is the total number of items delivered till now from the entire inventory.
- Low stock items have a quantity less than or equal to 10.



2. Departments Page: In this page show different inventory departments within the business. User can view each department's inventory by clicking on the cards and navigating to that specific product lists.

The different departments are:





- Kitchen
- Clothing
- Toys





3. Product List Page: This page displays a list of products within a chosen department. User can filter and sort products based on different attributes.

Have columns as shown in the image below.

Dashboard	Products	Kitchen	<input type="checkbox"/> Low Stock Items	Name	New
Departments					
Products					

Image	Name	Description	Price	Stock	Supplier
	Blender with Multiple Speeds	A powerful blender with multiple speed settings for various blending tasks.	\$69.99	10	BlendMaster Appliances
	Electric Coffee Maker	A programmable electric coffee maker for brewing your favorite coffee.	\$39.99	8	BrewMaster Appliances
	Non-Stick Frying Pan	A durable non-stick frying pan for easy cooking and cleaning.	\$29.95	20	CookEase Essentials
	Stainless Steel Cookware Set	A set of high-quality stainless steel cookware including pots and pans.	\$149.99	15	KitchenWonders Inc.

Filter by department using dropdown - All departments, kitchen, clothing, toys

Products	All Departments ✓ Kitchen Clothing Toys	<input type="checkbox"/> Low Stock Items	Name	
Image	Name	Description	Price	Stock
	Blender with Multiple Speeds	A powerful blender with multiple speed settings for various blending tasks.	\$69.99	10
	Electric Coffee Maker	A programmable electric coffee maker for brewing your favorite coffee.	\$39.99	8

Filter by low stock - Use checkbox to filter items for low stock. Low stock items have a quantity less than or equal to 10.



Products

Kitchen

☒ Low Stock Items

Name

New

Image	Name	Description	Price	Stock	Supplier
	Blender with Multiple Speeds	A powerful blender with multiple speed settings for various blending tasks.	\$69.99	10	BlendMaster Appliances
	Electric Coffee Maker	A programmable electric coffee maker for brewing your favorite coffee.	\$39.99	8	BrewMaster Appliances

Sort by Name, Price and Stock using dropdown - On selecting from the dropdown, sort the items in ascending order.



Products

Kitchen

☐ Low Stock Items

✓ Name
Price
Stock

New

Image	Name	Description	Price	Stock	Supplier
	Blender with Multiple Speeds	A powerful blender with multiple speed settings for various blending tasks.	\$69.99	10	BlendMaster Appliances
	Electric Coffee Maker	A programmable electric coffee maker for brewing your favorite coffee.	\$39.99	8	BrewMaster Appliances

4. Product Management: Allows user to add new products to the inventory by clicking on the ‘New’ button on product list page. Allow to add attributes like department, product name, description, price, stock (quantity), SKU (stocking unit), supplier name, items delivered (keep 0 when adding new product) and item image url.

Newly added item should persist in the product listing on page reload.

Dashboard

Departments

Products

Add New Product

Department:

Select Department

Name:

Description:

Price:

0

Stock:

0

SKU:

Supplier:

Delivered:

0

Image URL:

Add Product

5. Detailed Product Page: Clicking on a product from the list navigates user to a detailed product page. This page provides extensive information about the selected product, including its attributes, current stock level, and supplier name, etc.

Dashboard

Departments

Products

Blender with Multiple Speeds



Price: \$69.99

Stock: 10

Supplier: BlendMaster Appliances

Department: Kitchen

SKU: KITCH004

Delivered: 10

Description: A powerful blender with multiple speed settings for various blending tasks.

JSON Data:

```
export const inventoryData = [
  {
    id: 1,
    department: 'Kitchen',
    name: 'Stainless Steel Cookware Set',
    description:
      'A set of high-quality stainless steel cookware including pots and pans.',
    price: 149.99,
    stock: 15,
    sku: 'KITCH001',
    supplier: 'KitchenWonders Inc.',
    delivered: 15,
    imageUrl: 'https://m.media-amazon.com/images/I/616vJsA33kL.jpg',
  },
  {
    id: 2,
    department: 'Kitchen',
    name: 'Electric Coffee Maker',
    description:
      'A programmable electric coffee maker for brewing your favorite coffee.',
    price: 39.99,
    stock: 8,
    sku: 'KITCH002',
    supplier: 'BrewMaster Appliances',
  }
]
```

```

delivered: 2,
imageUrl:
  'https://4.imimg.com/data4/NF/XX/MY-3554754/electric-coffee-maker-500x500.jpg',
},
{
  id: 3,
  department: 'Clothing',
  name: "Men's Casual T-Shirt",
  description: 'A comfortable and stylish t-shirt for casual wear.',
  price: 19.99,
  stock: 50,
  sku: 'CLOTH001',
  supplier: 'FashionHub Clothing',
  delivered: 10,
  imageUrl:
    'https://4.imimg.com/data4/KS/HD/MY-718120/mens-casual-t-shirts-500x500.jpg',
},
{
  id: 4,
  department: 'Clothing',
  name: "Women's Yoga Pants",
  description: 'High-quality yoga pants for maximum comfort during workouts.',
  price: 29.99,
  stock: 30,
  sku: 'CLOTH002',
  supplier: 'ActiveFit Apparel',
  delivered: 10,
  imageUrl:
    'https://images.meesho.com/images/products/7488175/5b8f3_512.webp',
},
{
  id: 5,
  department: 'Toys',
  name: 'Building Blocks Set',
  description:
    'A set of colorful building blocks for creative play and learning.',
  price: 24.95,
  stock: 25,
  sku: 'TOYS001',
  supplier: 'PlayfulMinds Toys',
  delivered: 5,
  imageUrl:
    'https://smalltub.com/products/main/15451427001539408762Building-Blocks-Set1A.jpg',
},
{
  id: 6,
  department: 'Toys',
  name: 'Remote Control Car',
  description:
    'A fun remote control car with realistic features and controls.',
  price: 49.99,
  stock: 12,
  sku: 'TOYS002',
  supplier: 'ZoomZoom Toys',
  delivered: 8,
  imageUrl:
    'https://rukminim2.flixcart.com/image/850/1000/kvfkivk0/remote-control-toy/g/0/3/remot
},
{
  id: 7,
  department: 'Kitchen',

```



```

name: 'Non-Stick Frying Pan',
description:
  'A durable non-stick frying pan for easy cooking and cleaning.',
price: 29.95,
stock: 20,
sku: 'KITCH003',
supplier: 'CookEase Essentials',
delivered: 10,
imageUrl:
  'https://www.anko.co.in/cdn/shop/products/71yIQACoAiL.jpg?v=1687520426',
},
{
  id: 8,
  department: 'Clothing',
  name: "Women's Running Shoes",
  description:
    'High-performance running shoes designed for comfort and speed.',
  price: 79.99,
  stock: 18,
  sku: 'CLOTH003',
  supplier: 'StrideRight Sports',
  delivered: 2,
  imageUrl:
    'https://5.imimg.com/data5/SELLER/Default/2021/7/DU/DV/UN/26489940/kalenji-womens-run-
},
{
  id: 9,
  department: 'Toys',
  name: 'Educational Puzzle Set',
  description: 'A set of educational puzzles to stimulate young minds.',
  price: 19.95,
  stock: 15,
  sku: 'TOYS003',
  supplier: 'BrainyKids Toys',
  delivered: 5,
  imageUrl: 'https://m.media-amazon.com/images/I/81UK0PkJ6ZL.jpg',
},
{
  id: 10,
  department: 'Kitchen',
  name: 'Blender with Multiple Speeds',
  description:
    'A powerful blender with multiple speed settings for various blending tasks.',
  price: 69.99,
  stock: 10,
  sku: 'KITCH004',
  supplier: 'BlendMaster Appliances',
  delivered: 10,
  imageUrl:
    'https://m.media-amazon.com/images/I/41dMtEjU3IL._AC_UF894,1000_QL80_.jpg',
},
]

```