

 Marwadi University Marwadi Chandarana Group	NAAC A+	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Subject: Advanced Web Technology (01CT1625)	Aim: Frontend: Using ReactJS, make Image Carousel, FAQ/Accordion and Shopping iter with filters.		
Experiment No:- 07	Date:- 13-04-2025	Enrollment No:- 92200133003	

Objective : Frontend: Using ReactJS, make Image Carousel, FAQ/Accordion and Shopping item list with filters.

App.jsx

```
import React from 'react';
import Carousel from './components/Carousel/Carousel';
import Accordion from './components/Accordion/Accordion';
import ProductList from './components/ProductList/ProductList';

const App = () => {
  // Sample data for Carousel
  const carouselImages = [
    'https://img.freepik.com/free-psd/black-friday-super-sale-web-banner-background-template_120329-5119.jpg',
    'https://img.freepik.com/free-vector/dark-style-realistic-smart-watch-horizontal-banner-with-advertising-site-vector-illustration_1284-30193.jpg',
    'https://i.pinimg.com/736x/b2/2d/29/b22d296ca37c3400fe8838d135ae2c3d.jpg',
    'https://www.shutterstock.com/image-vector/sport-shoes-banner-website-button-260nw-2167767027.jpg'
  ];

  // Sample data for Accordion
  const faqItems = [
    {
      question: 'How do I place an order?',
      answer: 'You can place an order by selecting products and clicking the checkout button.'
    },
    {
      question: 'What payment methods do you accept?',
      answer: 'We accept credit cards, PayPal, and bank transfers.'
    },
    {
      question: 'What is your return policy?',
      answer: 'You can return items within 30 days of purchase with original receipt.'
    }
  ];

  // Sample data for ProductList
  const products = [
    { id: 1, name: 'Wireless Headphones', category: 'electronics', price: 99.99, image: 'https://via.placeholder.com/300' },
    { id: 2, name: 'Smart Watch', category: 'electronics', price: 199.99, image: 'https://via.placeholder.com/300' },
    { id: 3, name: 'Cotton T-Shirt', category: 'clothing', price: 24.99, image: 'https://via.placeholder.com/300' },
    { id: 4, name: 'Running Shoes', category: 'footwear', price: 89.99, image: 'https://via.placeholder.com/300' },
    { id: 5, name: 'Coffee Mug', category: 'home', price: 12.99, image: 'https://via.placeholder.com/300' },
    { id: 6, name: 'Bluetooth Speaker', category: 'electronics', price: 59.99, image: 'https://via.placeholder.com/300' },
  ];

  return (
    <div className="app">
      <h1>Image Carousel</h1>
      <Carousel images={carouselImages} />

      <h1>Product List with Filters</h1>
      <ProductList products={products} />

      <h1>FAQ Accordion</h1>
      <Accordion items={faqItems} />
    </div>
  );
};

export default App;
```

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Carousel.jsx

```
import { useState, useEffect } from 'react';
import './Corousel.css';

const Carousel = ({ images }) => {
  const [currentIndex, setCurrentIndex] = useState(0);

  const nextSlide = () => {
    setCurrentIndex((prevIndex) =>
      prevIndex === images.length - 1 ? 0 : prevIndex + 1
    );
  };

  const prevSlide = () => {
    setCurrentIndex((prevIndex) =>
      prevIndex === 0 ? images.length - 1 : prevIndex - 1
    );
  };

  // Auto-advance slides
  useEffect(() => {
    const interval = setInterval(() => {
      nextSlide();
    }, 5000);
    return () => clearInterval(interval);
  }, [currentIndex]);

  return (
    <div className="carousel">
      <button className="carousel-button prev" onClick={prevSlide}>&lt;</button>

      <div className="carousel-images">
        {images.map((image, index) => (
          <div
            key={index}
            className={`carousel-slide ${index === currentIndex ? 'active' : ''}`}
          >
            <img src={image} alt={`Slide ${index}`} />
          </div>
        ))}
      </div>

      <button className="carousel-button next" onClick={nextSlide}>&gt;</button>

      <div className="carousel-indicators">
        {images.map((_, index) => (
          <button
            key={index}
            className={`indicator ${index === currentIndex ? 'active' : ''}`}
            onClick={() => setCurrentIndex(index)}
          />
        ))}
      </div>
    </div>
  );
};

export default Carousel;
```

ProductList.jsx

```
import { useState } from 'react';
import './ProductList.css';

const ProductList = ({ products }) => {
  const [filters, setFilters] = useState({
    category: 'all',
    priceRange: 'all',
    sortBy: 'default'
  });
```

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```

    });

    const categories = ['all', ...new Set(products.map(p => p.category))];
    const priceRanges = [
      { value: 'all', label: 'All Prices' },
      { value: '0-50', label: 'Under $50' },
      { value: '50-100', label: '$50 - $100' },
      { value: '100-200', label: '$100 - $200' },
      { value: '200+', label: 'Over $200' }
    ];
  
```

```

    const filteredProducts = products.filter(product => {
      // Category filter
      if (filters.category !== 'all' && product.category !== filters.category) {
        return false;
      }

      // Price range filter
      if (filters.priceRange !== 'all') {
        const [min, max] = filters.priceRange.split('-').map(Number);
        if (filters.priceRange.endsWith('+')) {
          if (product.price < parseInt(filters.priceRange)) return false;
        } else if (product.price < min || product.price > max) {
          return false;
        }
      }


      return true;
    }).sort((a, b) => {
      // Sorting
      switch (filters.sortBy) {
        case 'price-asc':
          return a.price - b.price;
        case 'price-desc':
          return b.price - a.price;
        case 'name-asc':
          return a.name.localeCompare(b.name);
        case 'name-desc':
          return b.name.localeCompare(a.name);
        default:
          return 0;
      }
    });
  
```

```

    return (
      <div className="product-list-container">
        <div className="filters">
          <div className="filter-group">
            <label>Category:</label>
            <select
              value={filters.category}
              onChange={(e) => setFilters({...filters, category: e.target.value})}
            >
              {categories.map(category => (
                <option key={category} value={category}>
                  {category.charAt(0).toUpperCase() + category.slice(1)}
                </option>
              ))}
            </select>
          </div>

          <div className="filter-group">
            <label>Price Range:</label>
            <select
              value={filters.priceRange}
              onChange={(e) => setFilters({...filters, priceRange: e.target.value})}
            >
              {priceRanges.map(range => (
                <option key={range.value} value={range.value}>

```

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```

    {range.label}
  </option>
  )))
</select>
</div>

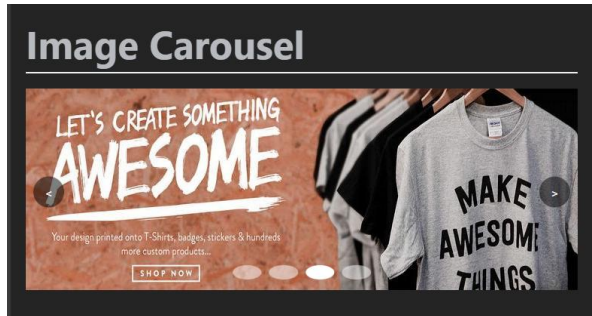
<div className="filter-group">
  <label>Sort By:</label>
  <select
    value={filters.sortBy}
    onChange={(e) => setFilters({...filters, sortBy: e.target.value})}
  >
    <option value="default">Default</option>
    <option value="price-asc">Price: Low to High</option>
    <option value="price-desc">Price: High to Low</option>
    <option value="name-asc">Name: A-Z</option>
    <option value="name-desc">Name: Z-A</option>
  </select>
</div>

<div className="product-list">
  {filteredProducts.length > 0 ? (
    filteredProducts.map(product => (
      <div key={product.id} className="product-card">
        <img src={product.image} alt={product.name} />
        <h3>{product.name}</h3>
        <p className="category">{product.category}</p>
        <p className="price">${product.price.toFixed(2)}</p>
        <button className="add-to-cart">Add to Cart</button>
      </div>
    ))
  ) : (
    <p className="no-results">No products match your filters.</p>
  )}
</div>
</div>
);
};

```

export default ProductList;

OUTPUT



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Product List with Filters

Category:


All

Price Range:

All Prices

Sort By:

Default




Wireless Headphones

electronics

\$99.99

Add to Cart




Smart Watch

electronics

\$199.99

Add to Cart




Cotton T-Shirt

clothing

\$24.99

Add to Cart




Running Shoes

footwear

\$89.99

Add to Cart




Coffee Mug

home

\$12.99

Add to Cart



Bluetooth Speaker

electronics

\$59.99

Add to Cart

Product List with Filters

Category:


Clothing

Price Range:

All Prices

Sort By:

Price: High to Low



Cotton T-Shirt

clothing

\$24.99

Add to Cart

Product List with Filters

Category:


Electronics

Price Range:

All Prices

Sort By:

Price: High to Low




Smart Watch

electronics

\$199.99

Add to Cart




Wireless Headphones

electronics

\$99.99

Add to Cart



Bluetooth Speaker

electronics

\$59.99

Add to Cart

FAQ Accordion

How do I place an order?
+

What payment methods do you accept?
+

What is your return policy?
+