	Marwadi University
![Marwadi University logo]	**Marwadi University** **Faculty of Technology** **Department of Information and Communication Technology**
Subject: AWT (01CT1625)	**Aim: Frontend: Using ReactJS, make Image Carousel, FAQ/Accordion and Shopping item list with filters.**
Experiment No: 7	**Date:**	**Enrollment No: 92200133005**

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

CODE:

// src/components/ShoppingList/ShoppingList.js

import React, { useState } from 'react';

import './ShoppingList.css';

const ShoppingList = ({ products }) => {

 const [filters, setFilters] = useState({

  category: 'all',

  price: 'all',

  searchQuery: '' });

 // Handle filter changes

 const handleFilterChange = (filterType, value) => {

  setFilters({

   ...filters,

   [filterType]: value

  }); };

 // Filter products based on current filters

 const filteredProducts = products.filter(product => {

  // Filter by category

  if (filters.category !== 'all' && product.category !== filters.category) {

   return false; }

  // Filter by price range

  if (filters.price !== 'all') {

   if (filters.price === 'under25' && product.price >= 25) return false;

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```
     if (filters.price === '25to50' && (product.price < 25 || product.price > 50)) return false;

     if (filters.price === 'over50' && product.price <= 50) return false; }

   // Filter by search query

   if (filters.searchQuery && !product.name.toLowerCase().includes(filters.searchQuery.toLowerCase())) {

     return false; }

   return true; });

// Get unique categories for the filter dropdown

const categories = [...new Set(products.map(p => p.category))];

return (

 <div className="shopping-container">

   <h2>Product List</h2>

   <div className="filter-container">

     <div className="filter-group">

      <label>Category:</label>

      <select

        value={filters.category}

        onChange={(e) => handleFilterChange('category', e.target.value)}

      >

        <option value="all">All Categories</option>

        {categories.map(category => (

          <option key={category} value={category}>

            {category.charAt(0).toUpperCase() + category.slice(1)}

          </option>

        ))}
```

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```jsx
        </select>

      <div className="filter-group">

        <label>Search:</label>

        <input

          type="text"

          placeholder="Search products..."

          value={filters.searchQuery}

          onChange={(e) => handleFilterChange('searchQuery', e.target.value)} />

      </div> </div>

    <div className="product-grid">

      {filteredProducts.length > 0 ? (

        filteredProducts.map(product => (

          <div key={product.id} className="product-card">

            <img src={product.image} alt={product.name} className="product-image" />

            <div className="product-info">

              <h3>{product.name}</h3>

              <p className="product-category">{product.category}</p>

              <p className="product-price">${product.price.toFixed(2)}</p>

              <button className="add-to-cart">Add to Cart</button>

            </div>

          </div>

      )) ) : (

        <p className="no-products">No products match your filters.</p> )}

    </div>
```

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```
    </div> ); };

export default ShoppingList;

// src/components/Accordion/Accordion.js

import React, { useState } from 'react';

import './Accordion.css';

// Individual accordion item

const AccordionItem = ({ title, content, isOpen, toggleAccordion }) => {

  return (

    <div className="accordion-item">

      <div

        className="accordion-header"

        onClick={toggleAccordion} >

        <h3>{title}</h3>

        <span className={`accordion-icon ${isOpen ? 'open' : ''}`}>

          {isOpen ? '−' : '+'}

        </span>

      </div>

      {isOpen && (

        <div className="accordion-content">

          <p>{content}</p>

        </div> )}

    </div>);};

// Main accordion component

const Accordion = ({ items }) => {
```

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```
const [openIndex, setOpenIndex] = useState(0);

const handleToggle = (index) => {

  setOpenIndex(openIndex === index ? null : index);

};  return (

  <div className="accordion-container">

    <h2>Frequently Asked Questions</h2>

    {items.map((item, index) => (

      <AccordionItem

        key={index}

        title={item.title}

        content={item.content}

        isOpen={openIndex === index}

        toggleAccordion={() => handleToggle(index)}

      /> ))}

  </div>);};

export default Accordion;

import React, { useState, useEffect } from 'react';

import './Carousel.css';

// Simple image carousel component

const Carousel = ({ images }) => {

  const [currentIndex, setCurrentIndex] = useState(0);

  // Auto-advance carousel every 3 seconds

  useEffect(() => {

    const interval = setInterval(() => {
```

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```
      setCurrentIndex((prevIndex) => (prevIndex + 1) % images.length);

    }, 3000);

    return () => clearInterval(interval);

  }, [images.length]);

  const goToPrevious = () => {

    setCurrentIndex((prevIndex) =>

      prevIndex === 0 ? images.length - 1 : prevIndex - 1

    );};

  const goToNext = () => {

    setCurrentIndex((prevIndex) =>

      (prevIndex + 1) % images.length

    );};

  return (

    <div className="carousel-container">

      <div className="carousel-image-container">

        <img

          src={images[currentIndex]}

          alt={`Slide ${currentIndex}`}

          className="carousel-image" />

      </div>

      <div className="carousel-controls">

        <button onClick={goToPrevious} className="carousel-button">

          &lt; Prev

        </button>
```

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```
<div className="carousel-indicators">

  {images.map((_, index) => (

    <span

      key={index}

      className={`carousel-dot ${index === currentIndex ? 'active' : "}`}

      onClick={() => setCurrentIndex(index)}

    />))}

  </div>

  <button onClick={goToNext} className="carousel-button">

    Next &gt;

  </button>

  </div> </div>);};

export default Carousel;
```
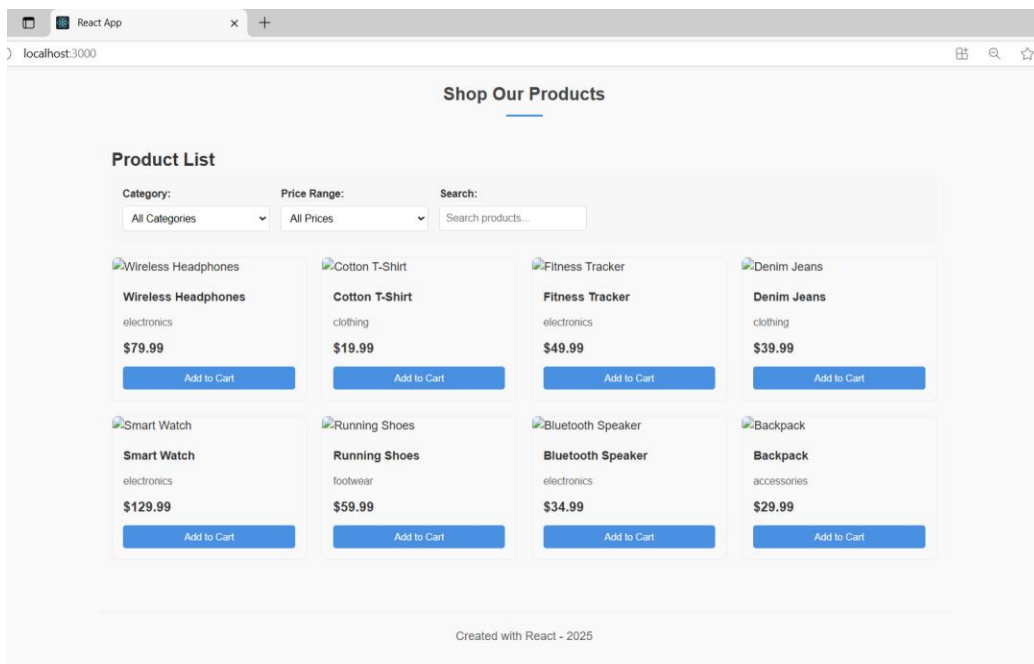
OUTPUT:

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Frequently Asked Questions

Frequently Asked Questions

How do I create an account?   —

To create an account, click on the "Sign Up" button in the top right corner and fill out the registration form with your details.

What payment methods do you accept?   +

How long does shipping take?   +

What is your return policy?   +

Do you ship internationally?   +

Shop Our Products

React App   ×   +

ocalhost:3000

React Components Demo

Image3

Image Carousel

Slide 3

< Prev   • • • •   Next >

Frequently Asked Questions