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// LEGO Star Wars Price Tracker - Main Application
// React application for tracking LEGO prices with BrickLink integration

// Sample LEGO Star Wars sets data with historical pricing
const generateHistoricalData = (basePrice, volatility = 0.1) => {
  const months = 12;
  const data = [];
  let currentPrice = basePrice;

  for (let i = months; i >= 0; i--) {
    const date = new Date();
    date.setMonth(date.getMonth() - i);

    // Simulate price fluctuation
    const change = (Math.random() - 0.5) * 2 * volatility * basePrice;
    currentPrice = Math.max(basePrice * 0.7, currentPrice + change);

    data.push({
      date: date.toISOString().split('T')[0],
      price: parseFloat(currentPrice.toFixed(2)),
      sales: Math.floor(Math.random() * 50) + 10
    });
  }
  return data;
};

const sampleSets = [
  {
    id: '75192',
    name: 'Millennium Falcon',
    currentPrice: 849.99,
    msrp: 799.99,
    demand: 'high',
    availability: 'retired',
    history: generateHistoricalData(849.99, 0.15),
    imageUrl: 'https://images.brickset.com/sets/large/75192-1.jpg?20170923021'
  },
  {
    id: '75313',
    name: 'AT-AT',
    currentPrice: 699.99,
    msrp: 849.99,
    demand: 'medium',
    availability: 'retired',
  }
];

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        history: generateHistoricalData(699.99, 0.12),
        imageUrl: 'https://images.brickset.com/sets/large/75313-1.jpg?20210801070
    },
    {
        id: '75331',
        name: 'The Razor Crest',
        currentPrice: 599.99,
        msrp: 599.99,
        demand: 'high',
        availability: 'available',
        history: generateHistoricalData(599.99, 0.08),
        imageUrl: 'https://images.brickset.com/sets/large/75331-1.jpg?20220929151
    },
    {
        id: '75252',
        name: 'Imperial Star Destroyer',
        currentPrice: 699.99,
        msrp: 699.99,
        demand: 'medium',
        availability: 'retired',
        history: generateHistoricalData(699.99, 0.1),
        imageUrl: 'https://images.brickset.com/sets/large/75252-1.jpg?20190531100
    },
    {
        id: '75159',
        name: 'Death Star',
        currentPrice: 549.99,
        msrp: 499.99,
        demand: 'low',
        availability: 'retired',
        history: generateHistoricalData(549.99, 0.2),
        imageUrl: 'https://images.brickset.com/sets/large/75159-1.jpg?20160923091
    },
    {
        id: '75341',
        name: 'Luke Skywalker\'s Landspeeder',
        currentPrice: 199.99,
        msrp: 199.99,
        demand: 'medium',
        availability: 'available',
        history: generateHistoricalData(199.99, 0.06),
        imageUrl: 'https://images.brickset.com/sets/large/75341-1.jpg?20220429080
    }
];

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// Price Chart Component

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const PriceChart = ({ data, setName }) => {
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const chartRef = React.useRef(null);
const chartInstance = React.useRef(null);

React.useEffect(() => {
  if (!chartRef.current || !data) return;

  const ctx = chartRef.current.getContext('2d');

  if (chartInstance.current) {
    chartInstance.current.destroy();
  }

  chartInstance.current = new Chart(ctx, {
    type: 'line',
    data: {
      labels: data.map(d => {
        const date = new Date(d.date);
        return date.toLocaleDateString('en-US', { month: 'short', yea
      }),
      datasets: [{
        label: 'Price (USD)',
        data: data.map(d => d.price),
        borderColor: 'rgb(59, 130, 246)',
        backgroundColor: 'rgba(59, 130, 246, 0.1)',
        tension: 0.4,
        fill: true
      }]
    },
    options: {
      responsive: true,
      maintainAspectRatio: false,
      plugins: {
        legend: {
          display: false
        },
        title: {
          display: true,
          text: `${setName} - Price History`,
          color: '#fff'
        }
      }
    },
    scales: {
      y: {
        beginAtZero: false,
        ticks: {
          color: '#9ca3af',
          callback: function(value) {

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        return '$' + value.toFixed(0);
    }
},
grid: {
    color: 'rgba(255, 255, 255, 0.1)'
}
},
x: {
    ticks: {
        color: '#9ca3af'
    },
    grid: {
        color: 'rgba(255, 255, 255, 0.1)'
    }
}
}
}
});

return () => {
    if (chartInstance.current) {
        chartInstance.current.destroy();
    }
};
}, [data, setName]));

return React.createElement('canvas', { ref: chartRef });
};

// Set Card Component
const SetCard = ({ set, onViewDetails }) => {
    const priceChange = set.history.length > 1
        ? ((set.currentPrice - set.history[0].price) / set.history[0].price * 100
            : 0;

    const isPriceDown = set.currentPrice < set.msrp;
    const recentPrices = set.history.slice(-3);
    const isRecentDrop = recentPrices.length > 1 &&
        recentPrices[recentPrices.length - 1].price < recentPrices[0].price;

    const demandColors = {
        high: 'bg-red-500',
        medium: 'bg-yellow-500',
        low: 'bg-green-500'
    };

    return React.createElement('div', { className: 'bg-gray-800 rounded-lg overfl

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React.createElement('div', { className: 'relative' },
  React.createElement('img', {
    src: set.imageUrl,
    alt: set.name,
    className: 'w-full h-48 object-cover',
    onError: (e) => {
      e.target.src = 'data:image/svg+xml,%3Csvg xmlns="http://www.w
    }
  )),
  isRecentDrop && React.createElement('div', {
    className: 'absolute top-2 right-2 bg-green-500 text-white px-3 p
  }, '📉 Price Drop!'),
  isPriceDown && React.createElement('div', {
    className: 'absolute top-2 left-2 bg-blue-500 text-white px-3 py-
  }, 'Below MSRP')
),
React.createElement('div', { className: 'p-4' },
  React.createElement('div', { className: 'flex justify-between items-s
    React.createElement('div', null,
      React.createElement('h3', { className: 'text-white font-bold
      React.createElement('p', { className: 'text-gray-400 text-sm'
    )),
    React.createElement('div', {
      className: `${demandColors[set.demand]} w-3 h-3 rounded-full`
      title: `Demand: ${set.demand}`
    })
  )),
  React.createElement('div', { className: 'grid grid-cols-2 gap-3 mb-3'
    React.createElement('div', null,
      React.createElement('p', { className: 'text-gray-400 text-xs'
      React.createElement('p', { className: 'text-white font-bold t
    )),
    React.createElement('div', null,
      React.createElement('p', { className: 'text-gray-400 text-xs'
      React.createElement('p', { className: 'text-gray-300 font-sem
    })
  )),
  React.createElement('div', { className: 'flex items-center justify-be
    React.createElement('div', null,
      React.createElement('p', { className: 'text-gray-400 text-xs'
      React.createElement('p', {
        className: `font-bold ${parseFloat(priceChange) >= 0 ? 't
      }, `${parseFloat(priceChange) >= 0 ? '+' : ''}${parseFloat(priceChange)%
    )),
    React.createElement('div', null,
      React.createElement('p', { className: 'text-gray-400 text-xs'
      React.createElement('span', {

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        className: `text-xs px-2 py-1 rounded ${set.availability
        }, set.availability)
    )
  ),
  React.createElement('button', {
    onClick: () => onViewDetails(set),
    className: 'w-full bg-blue-600 hover:bg-blue-700 text-white font-
    }, 'View Trend Details')
  )
);
};

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// Main App Component

```

const App = () => {
  const [sets, setSets] = React.useState(sampleSets);
  const [selectedSet, setSelectedSet] = React.useState(null);
  const [filterDemand, setFilterDemand] = React.useState('all');
  const [sortBy, setSortBy] = React.useState('name');
  const [showPriceDropsOnly, setShowPriceDropsOnly] = React.useState(false);
  const [isLoading, setIsLoading] = React.useState(true);

  React.useEffect(() => {
    setTimeout(() => setIsLoading(false), 500);
  }, []);

  if (isLoading) {
    return null;
  }

  const filteredSets = sets
    .filter(set => {
      if (filterDemand !== 'all' && set.demand !== filterDemand) return false;
      if (showPriceDropsOnly) {
        const recentPrices = set.history.slice(-3);
        const isRecentDrop = recentPrices.length > 1 &&
          recentPrices[recentPrices.length - 1].price < recentPrices[0].price;
        if (!isRecentDrop) return false;
      }
      return true;
    })
    .sort((a, b) => {
      switch(sortBy) {
        case 'price-low':
          return a.currentPrice - b.currentPrice;
        case 'price-high':
          return b.currentPrice - a.currentPrice;
        case 'demand':

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        const demandOrder = { high: 3, medium: 2, low: 1 };
        return demandOrder[b.demand] - demandOrder[a.demand];
      default:
        return a.name.localeCompare(b.name);
      }
    });

const calculateStats = (set) => {
  const prices = set.history.map(h => h.price);
  const avgPrice = prices.reduce((a, b) => a + b, 0) / prices.length;
  const minPrice = Math.min(...prices);
  const maxPrice = Math.max(...prices);
  const volatility = ((maxPrice - minPrice) / avgPrice * 100).toFixed(1);

  return { avgPrice, minPrice, maxPrice, volatility };
};

return React.createElement('div', { className: 'min-h-screen bg-gray-900 text
  React.createElement('header', { className: 'bg-gray-800 border-b border-g
    React.createElement('div', { className: 'container mx-auto px-4 py-6'
      React.createElement('h1', { className: 'text-4xl font-bold mb-2'
        React.createElement('p', { className: 'text-gray-400' }, 'Monitor
      )
    ),
    React.createElement('div', { className: 'container mx-auto px-4 py-6' },
      // Filters section
      React.createElement('div', { className: 'bg-gray-800 rounded-lg p-4 m
        React.createElement('div', { className: 'grid grid-cols-1 md:grid
          React.createElement('div', null,
            React.createElement('label', { className: 'block text-gra
            React.createElement('select', {
              value: filterDemand,
              onChange: (e) => setFilterDemand(e.target.value),
              className: 'w-full bg-gray-700 text-white rounded px-
            },
            React.createElement('option', { value: 'all' }, 'All
            React.createElement('option', { value: 'high' }, 'Hig
            React.createElement('option', { value: 'medium' }, 'M
            React.createElement('option', { value: 'low' }, 'Low
          )
        ),
        React.createElement('div', null,
          React.createElement('label', { className: 'block text-gra
          React.createElement('select', {
            value: sortBy,
            onChange: (e) => setSortBy(e.target.value),
            className: 'w-full bg-gray-700 text-white rounded px-

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    },
    React.createElement('option', { value: 'name' }, 'Name'),
    React.createElement('option', { value: 'price-low' }, 'Price Low'),
    React.createElement('option', { value: 'price-high' }, 'Price High'),
    React.createElement('option', { value: 'demand' }, 'Demand')
  ),
  React.createElement('div', { className: 'flex items-end' },
    React.createElement('label', { className: 'flex items-center' },
      React.createElement('input', {
        type: 'checkbox',
        checked: showPriceDropsOnly,
        onChange: (e) => setShowPriceDropsOnly(e.target.checked),
        className: 'mr-2 w-4 h-4'
      }),
      React.createElement('span', { className: 'text-sm' }, 'Show Price Drops')
    ),
  ),
  React.createElement('div', { className: 'flex items-end' },
    React.createElement('div', { className: 'text-sm' },
      React.createElement('span', { className: 'text-gray-400' }, 'Price: '),
      React.createElement('span', { className: 'text-white' }, '1000'),
      React.createElement('span', { className: 'text-gray-400' }, ' per hour')
    ),
  ),
),
),
// Legend
React.createElement('div', { className: 'bg-gray-800 rounded-lg p-4 m-4' },
  React.createElement('h3', { className: 'text-lg font-semibold mb-4' }, 'Legend'),
  React.createElement('div', { className: 'flex gap-6 flex-wrap' },
    React.createElement('div', { className: 'flex items-center' },
      React.createElement('div', { className: 'w-4 h-4 bg-red-500' }, 'Hi'),
      React.createElement('span', { className: 'text-sm' }, 'Hi')
    ),
    React.createElement('div', { className: 'flex items-center' },
      React.createElement('div', { className: 'w-4 h-4 bg-yellow-500' }, 'Me'),
      React.createElement('span', { className: 'text-sm' }, 'Me')
    ),
    React.createElement('div', { className: 'flex items-center' },
      React.createElement('div', { className: 'w-4 h-4 bg-green-500' }, 'Lo'),
      React.createElement('span', { className: 'text-sm' }, 'Lo')
    )
  ),
),
// Set Grid
React.createElement('div', { className: 'grid grid-cols-1 md:grid-cols-2' },

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        filteredSets.map(set => React.createElement(SetCard, { key: set.i
    ),
    filteredSets.length === 0 && React.createElement('div', { className:
        React.createElement('p', { className: 'text-gray-400 text-lg' },
    )
    ),
    // Detail Modal
    selectedSet && React.createElement('div', { className: 'fixed inset-0 bg-
        React.createElement('div', { className: 'bg-gray-800 rounded-lg max-w
        React.createElement('div', { className: 'sticky top-0 bg-gray-800
        React.createElement('div', null,
            React.createElement('h2', { className: 'text-2xl font-bol
            React.createElement('p', { className: 'text-gray-400' },
        ),
        React.createElement('button', {
            onClick: () => setSelectedSet(null),
            className: 'text-gray-400 hover:text-white text-2xl'
        }, 'x')
    ),
    React.createElement('div', { className: 'p-6' },
        // Stats Grid
        React.createElement('div', { className: 'grid grid-cols-2 md:
            (() => {
                const stats = calculateStats(selectedSet);
                return [
                    React.createElement('div', { className: 'bg-gray-
                        React.createElement('p', { className: 'text-g
                        React.createElement('p', { className: 'text-2
                    ),
                    React.createElement('div', { className: 'bg-gray-
                        React.createElement('p', { className: 'text-g
                        React.createElement('p', { className: 'text-2
                    ),
                    React.createElement('div', { className: 'bg-gray-
                        React.createElement('p', { className: 'text-g
                        React.createElement('p', { className: 'text-2
                    ),
                    React.createElement('div', { className: 'bg-gray-
                        React.createElement('p', { className: 'text-g
                        React.createElement('p', { className: 'text-2
                    )
                ];
            })()
        ),
        // Chart
        React.createElement('div', { className: 'bg-gray-700 p-4 roun
            React.createElement(PriceChart, { data: selectedSet.histo

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    ),
    // Additional Info
    React.createElement('div', { className: 'grid grid-cols-1 md:
      React.createElement('div', { className: 'bg-gray-700 p-4
        React.createElement('h3', { className: 'font-semibold
        React.createElement('div', { className: 'space-y-2 te
          React.createElement('div', { className: 'flex jus
            React.createElement('span', { className: 'tex
              React.createElement('span', null, `$$${selecte
            ),
            React.createElement('div', { className: 'flex jus
              React.createElement('span', { className: 'tex
                React.createElement('span', { className: 'cap
              ),
            React.createElement('div', { className: 'flex jus
              React.createElement('span', { className: 'tex
                React.createElement('span', { className: 'cap
              ),
            React.createElement('div', { className: 'flex jus
              React.createElement('span', { className: 'tex
                React.createElement('span', null, `${calculat
              )
            )
          ),
    React.createElement('div', { className: 'bg-gray-700 p-4
      React.createElement('h3', { className: 'font-semibold
      React.createElement('p', { className: 'text-sm text-g
        selectedSet.currentPrice < selectedSet.msrp
          ? "💡 Currently trading below MSRP - potentia
          : "📈 Trading above MSRP - high collector dem
        ),
      React.createElement('p', { className: 'text-sm text-g
        selectedSet.demand === 'high'
          ? "🔥 High demand indicates strong market int
          : selectedSet.demand === 'medium'
          ? "⚖️ Moderate demand suggests stable pricing
          : "🎯 Lower demand could present good value f
        )
      )
    ),
    React.createElement('div', { className: 'mt-6 bg-blue-900 bg-
      React.createElement('p', { className: 'text-sm text-blue-
        React.createElement('strong', null, 'Note:'),
        ' This demo uses simulated data. To connect to real B
      )
    )
  )
)

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    )
  )
);
};

// Initialize the app
try {
  ReactDOM.render(React.createElement(App), document.getElementById('root'));
} catch (error) {
  console.error('Error rendering app:', error);
  document.getElementById('root').innerHTML = `
    <div style="display: flex; justify-content: center; align-items: center;
      <div style="text-align: center; max-width: 500px;">
        <div style="font-size: 48px; margin-bottom: 20px;">⚠️</div>
        <div style="font-size: 20px; font-weight: bold; margin-bottom: 10
        <div style="color: #9ca3af; margin-bottom: 20px;">There was an is
        <div style="text-align: left; color: #9ca3af; margin-bottom: 10px
          • Refresh the page<br>
          • Clear browser cache<br>
          • Try a different browser (Safari, Chrome)<br>
          • Open in desktop browser first to verify
        </div>
        <div style="margin-top: 20px; padding: 15px; background-color: #1
          Error: ${error.message}
        </div>
      </div>
    </div>
  `;
}

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