

Sales Dashboard Project Documentation

README.md

Sales Dashboard (Next.js 15 + TypeScript + TailwindCSS)

Features

- Atomic design principle (atoms, molecules, organisms).
- Sales chart using Recharts.
- Custom filter input for threshold-based filtering.
- Dashboard page with integrated components.

Setup

```
```bash
git clone <your-repo-url>
cd sales-dashboard-nextjs
npm install
npm run dev
```
```

Enhancements

- API integration for real sales data.
- Multiple chart types (bar, line, pie).

src/data/salesData.ts

```
export const salesData = [  
  { year: 2022, sales: 45000 },  
  { year: 2023, sales: 52000 },  
  { year: 2024, sales: 61000 },  
];
```

src/components/atoms/Button.tsx

```
type ButtonProps = {
  children: React.ReactNode;
  onClick?: () => void;
};

export default function Button({ children, onClick }: ButtonProps) {
  return (
    <button onClick={onClick} className="bg-blue-500 text-white px-4 py-2 rounded">
      {children}
    </button>
  );
}
```

src/components/atoms/Input.tsx

```
type InputProps = {
  type: string;
  placeholder?: string;
  onChange?: (e: React.ChangeEvent<HTMLInputElement>) => void;
};

export default function Input({ type, placeholder, onChange }: InputProps) {
  return (
    <input
      type={type}
      placeholder={placeholder}
      onChange={onChange}
      className="border p-2 rounded"
    />
  );
}
```

src/components/molecules/FilterInput.tsx

```
'use client';
import { useState } from "react";
import { salesData } from "@/data/salesData";

export default function FilterInput() {
  const [threshold, setThreshold] = useState(0);
  const filtered = salesData.filter((d) => d.sales >= threshold);

  return (
    <div className="space-y-4">
      <input
        type="number"
        placeholder="Enter sales threshold"
        className="border p-2 rounded"
        onChange={(e) => setThreshold(Number(e.target.value))}
      />
      <ul>
        {filtered.map((d) => (
          <li key={d.year}>{d.year}: {d.sales}</li>
        ))}
      </ul>
    </div>
  );
}
```

src/components/organisms/SalesChart.tsx

```
'use client';
import { BarChart, Bar, XAxis, YAxis, Tooltip, CartesianGrid, ResponsiveContainer } from
"recharts";
import { salesData } from "@/data/salesData";

export default function SalesChart() {
  return (
    <ResponsiveContainer width="100%" height={400}>
      <BarChart data={salesData}>
        <CartesianGrid strokeDasharray="3 3" />
        <XAxis dataKey="year" />
        <YAxis />
        <Tooltip />
        <Bar dataKey="sales" fill="#3b82f6" />
      </BarChart>
    </ResponsiveContainer>
  );
}
```

src/pages/dashboard.tsx

```
import SalesChart from "@components/organisms/SalesChart";
import FilterInput from "@components/molecules/FilterInput";

export default function Dashboard() {
  return (
    <div className="p-8">
      <h1 className="text-2xl font-bold mb-6">Sales Dashboard</h1>
      <SalesChart />
      <div className="mt-8">
        <FilterInput />
      </div>
    </div>
  );
}
```