```
import React, { useState } from "react";
import { Container, Typography } from "@mui/material";
import Grid from "@mui/material/Grid2";
import AddCost from "./components/addacost";
import MonthlyReport from "./components/monhtlyreport";
import PieChart from "./components/piecharts";
import { addingCost, getMonthlyCosts, getCostsByCategory } from "./utils/idb";
/**
 * Main application component for managing costs.
 * @returns {JSX.Element} The rendered App component.
 */
const App = () => {
  const [costs, setCosts] = useState([]);
 const [chartData, setChartData] = useState({});
 const DB_NAME = "CostManagerDB";
 const STORE NAME = "Costs";
  /**
     * Handles adding a new cost to the database.
     * @param {Object} costItem - The cost item to be added, including sum, category,
 const handleAddCost = async (costItem) => {
    await addingCost(DB NAME, STORE NAME, costItem);
   alert("Cost Added Successfully");
 };
     * Handles fetching costs for a specific month and year and updates the state.
     * @param {number} month - The month for which costs are fetched (1-12).
     * @param {number} year - The year for which costs are fetched.
 const handleFetchCosts = async (month, year) => {
    const data = await getMonthlyCosts(DB_NAME, STORE_NAME, month, year);
   setCosts(data || []); // Ensure costs is always an array
   const chartData = await getCostsByCategory(
     DB_NAME,
     STORE_NAME,
     month,
```

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year
  );
  setChartData(chartData || {});
};
return (
  <Container maxWidth="lg" sx={{ mt: 4 }}>
    <Typography variant="h3" component="h1" gutterBottom align="center">
      Cost Manager
    </Typography>
    <Grid container spacing={3}>
      {/* Center column for AddCost form */}
      <Grid
        xs = \{12\}
        md = \{4\}
        sx={{
          display: "flex",
          justifyContent: "center",
          alignItems: "flex-start",
        }}
        <AddCost onAddCost={handleAddCost} />
      </Grid>
      {/* Left column for Monthly Report */}
      <Grid
        xs = \{12\}
        md=\{4\}
        sx=\{\{
          display: "flex",
          justifyContent: "center",
          alignItems: "flex-start",
        }}
        <MonthlyReport costs={costs || []} onFetchCosts={handleFetchCosts} />
      </Grid>
      {/* Right column for PieChart */}
      <Grid
        xs = \{12\}
        md = \{4\}
        sx={{
          display: "flex",
          justifyContent: "center",
          alignItems: "flex-start",
```

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```
}}
91
92
               <PieChart chartData={chartData || {}} />
93
             </Grid>
94
           </Grid>
95
         </Container>
96
       );
97
    };
98
99
     export default App;
```

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