**Simple Expense Splitter Description**

**Gurram Hari Venkatesh**

**APP.js**import React, { useState } from "react";

import { BrowserRouter as Router, Route, Routes, Link } from "react-router-dom";

import FriendList from "./components/FriendList";

import ExpenseList from "./components/ExpenseList";

import ExpenseSummary from "./components/ExpenseSummary";

import Dashboard from "./components/Dashboard";

import "./App.css";

const App = () => {

return (

<Router>

<div className="app-container">

<nav>

<ul>

<li><Link to="/">Dashboard</Link></li>

<li><Link to="/friends">Friends</Link></li>

<li><Link to="/expenses">Expenses</Link></li>

<li><Link to="/summary">Summary</Link></li>

</ul>

</nav>

<Routes>

<Route path="/" element={<Dashboard />} />

<Route path="/friends" element={<FriendList />} />

<Route path="/expenses" element={<ExpenseList />} />

<Route path="/summary" element={<ExpenseSummary />} />

</Routes>

</div>

</Router>

);

};

export default App;

**FriendList.js**

import React, { useState } from "react";

import "./FriendList.css";

const FriendList = () => {

const [friends, setFriends] = useState([]);

const [name, setName] = useState("");

const addFriend = () => {

if (name.trim() === "") return;

setFriends([...friends, { id: Date.now(), name }]);

setName("");

};

return (

<div className="friend-list">

<h2>Friends</h2>

<input

type="text"

value={name}

onChange={(e) => setName(e.target.value)}

placeholder="Enter friend's name"

/>

<button onClick={addFriend}>Add Friend</button>

<ul>

{friends.map((friend) => (

<li key={friend.id}>{friend.name}</li>

))}

</ul>

</div>

);

};

export default FriendList;

**ExpenseList.js**

import React, { useState } from "react";

import "./ExpenseList.css";

const ExpenseList = () => {

const [expenses, setExpenses] = useState([]);

const [description, setDescription] = useState("");

const [amount, setAmount] = useState("");

/\* FriendList.css \*/

.friend-list {

padding: 20px;

}

.friend-list input {

margin-right: 10px;

padding: 5px;

}

.friend-list button {

padding: 5px 10px;

cursor: pointer;

}

.friend-list ul {

list-style-type: none;

padding: 0;

}

.friend-list li {

background: #f4f4f4;

margin: 5px 0;

padding: 10px;

}

const addExpense = () => {

if (!description || !amount) return;

setExpenses([...expenses, { id: Date.now(), description, amount: parseFloat(amount) }]);

setDescription("");

setAmount("");

};

return (

<div className="expense-list">

<h2>Expenses</h2>

<input

type="text"

value={description}

onChange={(e) => setDescription(e.target.value)}

placeholder="Expense description"

/>

<input

type="number"

value={amount}

onChange={(e) => setAmount(e.target.value)}

placeholder="Amount"

/>

<button onClick={addExpense}>Add Expense</button>

<ul>

{expenses.map((expense) => (

<li key={expense.id}>{expense.description}: ${expense.amount}</li>

))}

</ul>

</div>

);

};

export default ExpenseList;

**ExpenseSummary.js**

import React from "react";

import "./ExpenseSummary.css";

const ExpenseSummary = () => {

return (

<div className="expense-summary">

<h2>Expense Summary</h2>

<p>Summary calculations go here.</p>

</div>

);

};

export default ExpenseSummary;

**Dashboard.js**

import React from "react";

import "./Dashboard.css";

const Dashboard = () => {

return (

<div className="dashboard">

<h1>Welcome to Expense Splitter</h1>

<p>Manage friends and expenses efficiently.</p>

</div>

);

};

**FindService.js**

export const addFriend = (friends, name) => {

return [...friends, { id: Date.now(), name }];

};

**ExpenseService.js**

export const addExpense = (expenses, description, amount) => {

return [...expenses, { id: Date.now(), description, amount: parseFloat(amount) }];

};

**CalculationService.js**

export const calculateSummary = (expenses) => {

return expenses.reduce((total, expense) => total + expense.amount, 0);

};

**FriendList.css**

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padding: 0;

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.friend-list li {

background: #f4f4f4;

margin: 5px 0;

padding: 10px;

}

**ExpenseList.css**

.expense-list {

padding: 20px;

}

.expense-list input {

margin-right: 10px;

padding: 5px;

}

.expense-list button {

padding: 5px 10px;

cursor: pointer;

}

.expense-list ul {

list-style-type: none;

padding: 0;

}

.expense-list li {

background: #f4f4f4;

margin: 5px 0;

padding: 10px;

}

**ExpenseSummary.css**

**.**expense-summary {

padding: 20px;

background: #e3f2fd;

border-radius: 5px;

}

**Dashboard.css**

.dashboard {

padding: 20px;

text-align: center;

background: #f0f0f0;

border-radius: 5px;

}