FED HIT (65364-2)

Team members:

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Link to YouTube video: https://youtu.be/Y0AdbRY1LPk

Link to GitHub: https://github.com/pelegvd/Cost-Manager

App.js

```javascript
/* Peleg Vadbeker 209485838
   Eden Blau 208571927
   Dudi Kreis 311333900
*/
import Navbar from './navbar';
import Home from './home';
import Reports from "./reports";
import {BrowserRouter as Router, Route, Switch} from 'react-router-dom';
import About from "./about";


/*
The function defines a React component called App.
It returns a Router component with Navbar and a div container that has a content class.
The Router component contains a Switch component that determines
 which Route component to render based on the URL path.
 */

function App() {
    return (
        <Router>
            <div className="App">
                <Navbar/>
                <div className="content">
                    <Switch>
                        <Route exact path="/">
                            <Home/>
                        </Route>
                        <Route path="/about">
                            <About/>
                        </Route>
                        <Route path="/report">
                            <Reports/>
                        </Route>
                    </Switch>
                </div>
            </div>
        </Router>
    )
}

export default App;
```

navbar.js

```javascript
/* Peleg Vadbeker 209485838
   Eden Blau 208571927
   Dudi Kreis 311333900
*/

import React from 'react';
import './Navbar.css';
import AppLogo from './AppLogo.JPG';
import {Link} from "react-router-dom";

const Navbar = () => {
    return (
        <nav className="navbar">
            <a className="backHome" href="/">
                <img className={"logo"} src={AppLogo} alt={"logo"}/>
            </a>

            <div className="links_container">
                <Link to="/" className="links">Home</Link>
                <Link to="/report" className="links">Report</Link>
                <Link to="/about" className="links">About</Link>

            </div>
        </nav>
    );
}

export default Navbar;
```

Index.js

```js
/* Peleg Vadbeker 209485838
   Eden Blau 208571927
   Dudi Kreis 311333900
*/
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './app';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);


reportWebVitals();
```

```
1    /* Peleg Vadbeker 209485838
2       Eden Blau 208571927
3       Dudi Kreis 311333900
4    */
5    import React from 'react';
6    import './Home.css';
7    import {useState, useEffect} from 'react';
8    import LocalStorage from "./localStorage";
9
10
11   const Home = () => {
12       // This useEffect hook updates the document title to 'Cost Manager'
13       useEffect(() => {
14           document.title = 'Cost Manager';
15       }, []);
16
17       useEffect(() => {
18           // This useEffect hook retrieves the inputs saved in local storage and sets them to the inputs state variable
19           const inputsFromLocalStorage = LocalStorage.get('inputs');
20           if (inputsFromLocalStorage) {
21               setInputs(inputsFromLocalStorage);
22           }
23       }, []);
24
25       // These state variables are used to store the values of the inputs
26       const [date, setDate] = useState('');
27       const [item, setItem] = useState('');
28       const [price, setPrice] = useState('');
29       const [category, setCategory] = useState('food');
30       const [description, setDescription] = useState('');
31       const [inputs, setInputs] = useState([]);
32       const [error, setError] = useState('');
```

```jsx
        // This function is called when the user clicks the add cost button
        const today = new Date();
        const todayStr = today.toISOString().slice(0, 10);


        return (
            <div className="Home">
                <h1>Add your expense here</h1>
                <div className="form-container">
                    <div className="inputGroup">
                        <label htmlFor='name'>Date:</label>
                        <input type="date" value={date} onChange={e => setDate(e.target.value)} required
                            autoComplete={'off'} max={todayStr}/>
                    </div>
                    <div className="inputGroup">
                        <label>Item: </label><input type="text" value={item} onChange={e => setItem(e.target.value)}/>
                    </div>
                    <div className="inputGroup">
                        <label>Price: </label><input type="number" value={price} onChange={e => setPrice(e.target.value)}/>
                    </div>
                    <div className="inputGroup">
                        <label>Category:</label>
                        <select value={category} onChange={e => setCategory(e.target.value)}>
                            <option value="food">Food</option>
                            <option value="personalSpending">Personal spending</option>
                            <option value="children">Children</option>
                            <option value="rent">Rent</option>
                            <option value="transportation">Transportation</option>
                            <option value="utilities">Utilities</option>
                            <option value="medical">Medical</option>
                            <option value="insurance">Insurance</option>
                            <option value="entertainment">Entertainment</option>
                            <option value="others">Others</option>
                        </select>
                    </div>
```

```
68              </div>
69              <div className="inputGroup">
70                  <label>Description: </label>
71                  <textarea value={description} onChange={e => setDescription(e.target.value)}
72                      placeholder="Enter description"></textarea>
73              </div>
74              <div className="submit-cost">
75                  <button className={"add-cost"} id="plus" onClick={() => {
76                      if (!date || !item || !price) { // If any of the inputs are empty, display an error message
77                          alert("please enter all field")
78                          return;
79                      }
80                      setError('');
81                      setInputs([...inputs, {date, item, price, category, description}]); // Add the new input to the inputs state variable
82                      localStorage.setItem('inputs', JSON.stringify([...inputs, { // Add the new input to local storage
83                          date,
84                          item,
85                          price,
86                          category,
87                          description
88                      }]));
89                      setDate(''); // Clear the date input
90                      setItem(''); // Clear the item input
91                      setPrice(''); // Clear the price input
92                      setCategory('food'); // Reset the category to default
93                      setDescription(''); // Clear the description input
94                      alert("Cost added successfully");
95                  }}>Add cost
96                  </button>
97                  {error && <p className="error">{error}</p>}
98              </div>
99
100         </div>
101
102
```

```jsx
            {/*The component then maps over the items in the inputs state variable and displays them in a list*/}
            <table>
                <thead>
                <tr>
                    <th>Date</th>
                    <th>Item</th>
                    <th>Price</th>
                    <th>Category</th>
                    <th>Description</th>
                    <th>Delete item</th>
                </tr>
                </thead>
                <tbody>
                {inputs.map((input, index) => ( // Map over the inputs state variable
                    <tr key={index}>
                        <td>{input.date}</td>
                        <td>{input.item}</td>
                        <td>{input.price}</td>
                        <td>{input.category}</td>
                        <td>{input.description}</td>
                        <td>
                            <button
                                className={'delete-button'}
                                onClick={() => {
                                    inputs.splice(index, 1); // Remove the item from the inputs state variable
                                    setInputs([...inputs]); // Update the inputs state variable
                                    LocalStorage.set('inputs', inputs); // Update local storage
                                }}
                            >
                                Delete
                            </button>
                        </td>
                    </tr>
                ))}
                </tbody>
            </table>


        </div>
    );
}
export default Home;
```

localstorage.js

```js
/* Peleg Vadbeker 209485838
   Eden Blau 208571927
   Dudi Kreis 311333900
*/
const LocalStorage = {
    get: (key) => {
        return JSON.parse(localStorage.getItem(key));
    },


    set: async (key, value) => {
        await localStorage.setItem(key, JSON.stringify(value));
    }
};


export default LocalStorage;
```

Report.j

```
                                                                    reports.js
1    /* Peleg Vadbeker 209485838
2       Eden Blau 208571927
3       Dudi Kreis 311333900
4    */
5    import React, {useState, useEffect} from 'react';
6    import './Reports.css';
7    import LocalStorage from "./localStorage";
8
9    //page title
10   const Reports = () => {
11       useEffect(() => {
12           document.title = 'Reports';
13       }, []);
14
15       //state variables
16       const [selectedYear, setSelectedYear] = useState('');
17       const [selectedMonth, setSelectedMonth] = useState('');
18       const [expenses, setExpenses] = useState([]); //expenses
19       const [totalExpenses, setTotalExpenses] = useState(0);
20       const [filteredExpenses, setFilteredExpenses] = useState([]);
21
22       //to show expense by category later
23       const categories = {};
24       filteredExpenses.forEach(expense => {
25           if (categories[expense.category]) {
26               categories[expense.category] += parseInt(expense.price);
27           } else {
28               categories[expense.category] = parseInt(expense.price);
29           }
30       });
31
```

```jsx
        // Fetch the expenses from local storage
        useEffect(() => {
            const inputsFromLocalStorage = LocalStorage.get('inputs');
            if (inputsFromLocalStorage) {
                setExpenses(inputsFromLocalStorage);
            }
        }, []);

        useEffect(() => {
            console.log("change", expenses);
        }, [expenses]);


        // Calculate the total expenses for the filtered expenses
        const calculateTotalExpenses = () => {
            // if all the filter are filled
            if (selectedYear && selectedMonth) {
                let total = 0;
                const filtered = expenses.filter(exp => new Date(exp.date).getFullYear().toString() === selectedYear && new Date(exp.date).getMonth().toString() === selectedMonth);
                console.log("filtered", filtered);
                setFilteredExpenses(filtered);

                filteredExpenses.forEach(expense => {
                    total += parseInt(expense.price);
                });
                setTotalExpenses(total);
            } else {
                alert('Please select a year and a month');
            }
        };
        useEffect(() => {
            let total = 0;
            filteredExpenses.forEach(expense => {
                total += parseInt(expense.price);
            });
            setTotalExpenses(total);
        }, [filteredExpenses]);

        return (
            <div className="reports">
                <h1 className="headline">Expense Report</h1>
                <div className="select-container">
                    <label className="label">Year</label>
                    <select className="select" value={selectedYear} onChange={e => setSelectedYear(e.target.value)}>
                        <option value="" disabled>Select a year</option>
                        <option value="2019">2019</option>
                        <option value="2020">2020</option>
                        <option value="2021">2021</option>
                        <option value="2022">2022</option>
                        <option value="2023">2023</option>
```

```jsx
                            <option value="2023">2023</option>
                        </select>
                    </div>
                    <div className="select-container">
                        <label className="label">Month</label>
                        <select className="select" value={selectedMonth} onChange={e => setSelectedMonth(e.target.value)}>
                            <option value="" disabled>Select a month</option>
                            <option value="0">January</option>
                            <option value="1">February</option>
                            <option value="2">March</option>
                            <option value="3">April</option>
                            <option value="4">May</option>
                            <option value="5">June</option>
                            <option value="6">July</option>
                            <option value="7">August</option>
                            <option value="8">September</option>
                            <option value="9">October</option>
                            <option value="10">November</option>
                            <option value="11">December</option>
                            ...
                        </select>
                    </div>
                    <div>
                        <button className="submit" onClick={calculateTotalExpenses}>Show expenses</button>
                    </div>
                    {filteredExpenses.length > 0 && (
                        <table>
                            <thead>
                            <tr>
                                <th>Date</th>
                                <th>Item</th>
                                <th>Price</th>
                                <th>Category</th>
                                <th>Description</th>
                            </tr>
                            </thead>
                            <tbody>
                            {filteredExpenses.map((expense, index) => (
                                <tr key={index}>
                                    <td>{expense.date}</td>
                                    <td>{expense.item}</td>
                                    <td>{expense.price}</td>
                                    <td>{expense.category}</td>
                                    <td>{expense.description}</td>
                                </tr>
                            ))}
                            </tbody>
                        </table>
                    )}
```

```
129                )}
130            <div>
131                <p className="total-expenses">Total expenses for selected period: <span
132                    className="total-number">{totalExpenses} ILS</span></p>
133            </div>
134            <div>
135                <p className="total-expenses">Expenses by category:</p>
136                {Object.keys(categories).map(category => (
137                    <p key={category}>{category}: {categories[category]} ILS</p>
138                ))}
139            </div>
140        </div>
141    )
142 }
143
144 export default Reports;
145
```

about.js

```
1   /* Peleg Vadbeker 209485838
2      Eden Blau 208571927
3      Dudi Kreis 311333900
4   */
5   import React, {useEffect} from 'react';
6   import './About.css'
7   import TeamMember from './teamMember';
8   import peleg from './peleg.jpg'
9   import eden from './eden.jpeg'
10  import dudi from './dudi.jpeg'
11
12  //array of 3 group members
13
14  const teamMembers = [
15      {
16          name: 'Peleg Vadbeker',
17          role: 'Computer Science student - HIT and System Administrator',
18          picture: peleg
19      },
20      {
21          name: 'Eden Blau',
22          role: 'Computer Science student - HIT and NOC engineer',
23          picture: eden
24      },
25      {
26          name: 'Dudi Kreis',
27          role: 'Computer Science student - HIT and Junior Front End Developer',
28          picture: dudi
29      }
30  ];
31
32  /*
33  About us function tell us about the project and team members.
34  about us contain map function that iterates over the team members array and for each team member it creates a new "team Member" component
35  note : we have team member as objects and team Member component.
36  */
37
```

```
37
38
39  function AboutUs() {
40      useEffect(() => {
41          document.title = 'About Us';
42      }, []);
43      return (
44          <div className="about-us-container">
45              <h1 className="about-us-text">About Our Project</h1>
46              <p className="about-us-text">Our system is a tool for managing financial expenses, to enter your financial expenses you must enter date, item, price, category and description and click on add item.</p>
47              <p className="about-us-text">The items you entered will appear in the table below, you also have the option to filter by month and year and see the expenses in this period.</p>
48              <h2>Meet the Team</h2>
49              <div className="team-members-container">
50                  {teamMembers.map((member) => (
51                      <TeamMember
52                          key={member.name}
53                          name={member.name}
54                          role={member.role}
55                          picture={member.picture}
56                      />
57                  ))}
58              </div>
59          </div>
60      );
61  }
62
63  export default AboutUs;
64
```

teamMember.js

```javascript
/* Peleg Vadbeker 209485838
   Eden Blau 208571927
   Dudi Kreis 311333900
*/
import React from 'react';
function TeamMember({ name, role, picture }) {
    return (
        <div className="team-member-card">
            <img src={picture} alt={name} />
            <h3>{name}</h3>
            <p>{role}</p>
        </div>
    );
}

export default TeamMember;
```

Reportwebvital.js

reportWebVitals.js

```
1    /* Peleg Vadbeker 209485838
2       Eden Blau 208571927
3       Dudi Kreis 311333900
4    */
5    const reportWebVitals = onPerfEntry => {
6      if (onPerfEntry && onPerfEntry instanceof Function) {
7        import('web-vitals').then(({ getCLS, getFID, getFCP, getLCP, getTTFB }) => {
8          getCLS(onPerfEntry);
9          getFID(onPerfEntry);
10         getFCP(onPerfEntry);
11         getLCP(onPerfEntry);
12         getTTFB(onPerfEntry);
13       });
14     }
15   };
16
17   export default reportWebVitals;
18
```