import React from 'react';

import ReactDOM from 'react-dom';

import App from './App';

class TodoApp extends React.Component {

constructor(props) {

super(props);

this.state = {

todoList: JSON.parse(localStorage.getItem('todoList')) || [],

newItemText: '',

};

}

handleNewItemChange = (event) => {

this.setState({ newItemText: event.target.value });

};

handleAddItem = (event) => {

event.preventDefault();

const { todoList, newItemText } = this.state;

const newTodoItem = { id: todoList.length + 1, text: newItemText, completed: false };

const updatedTodoList = [...todoList, newTodoItem];

this.setState({ todoList: updatedTodoList, newItemText: '' });

localStorage.setItem('todoList', JSON.stringify(updatedTodoList));

};

handleCheckboxClick = (event) => {

const { todoList } = this.state;

const updatedTodoList = todoList.map((item) =>

item.id === parseInt(event.target.value) ? { ...item, completed: !item.completed } : item

);

this.setState({ todoList: updatedTodoList });

localStorage.setItem('todoList', JSON.stringify(updatedTodoList));

};

handleRemoveItemClick = (event) => {

const { todoList } = this.state;

const updatedTodoList = todoList.filter((item) => item.id !== parseInt(event.target.value));

this.setState({ todoList: updatedTodoList });

localStorage.setItem('todoList', JSON.stringify(updatedTodoList));

};

render() {

const { todoList, newItemText } = this.state;

return (

<div>

<form onSubmit={this.handleAddItem}>

<label htmlFor="newItemText">New item:</label>

<input

type="text"

id="newItemText"

value={newItemText}

onChange={this.handleNewItemChange}

/>

<button type="submit">Add</button>

</form>

<ul>

{todoList.map((item) => (

<li key={item.id}>

<input

type="checkbox"

value={item.id}

checked={item.completed}

onChange={this.handleCheckboxClick}

/>

<span style={{ textDecoration: item.completed ? 'line-through' : 'none' }}>

{item.text}

</span>

<button value={item.id} onClick={this.handleRemoveItemClick}>

Remove

</button>

</li>

))}

</ul>

</div>

);

}

}

ReactDOM.render(

<React.StrictMode>

<App />

<TodoApp />

</React.StrictMode>,

document.getElementById('app'));