

W13-P1: PersonContext for T82_xx

The screenshot displays a React application titled "Tutorial T71_27 Context API / useContext". The application is running on localhost:3000. The code in the editor shows a context API setup for a person list. The `PersonContext` is created and provided to the `T81_27_ContextAPI` component. The `mainData` is retrieved using `useContext(PersonContext)` and logged to the console. The `SinglePerson` component uses `useContext(PersonContext)` to access the `removePerson` function. The UI shows a list of people: John and Peter, each with a "remove" button.

```
const PersonContext = React.createContext();

const T81_27_ContextAPI = () => {
  const [people, setPeople] = useState(data);
  const removePerson = (id) => { ... };
  return (
    <PersonContext.Provider value={ {people, removePerson}} >
      <Context API / useContext>
    </PersonContext.Provider>
  );
};

const list = () => {
  const mainData = useContext(PersonContext);
  console.log('MainData', mainData);
  return (
    <div>
      {mainData.people.map((person) => { ... })}
    </div>
  );
};

const SinglePerson = ({ id, name }) => {
  const { removePerson } = useContext(PersonContext);
  return ( ... );
};

export default T81_27_ContextAPI;
```

W13-P2: Apply useReducer to add an item with modal alert

The screenshot displays a React application titled "Tutorial T6_27". The application is running on localhost:3000. The code in the editor shows a `useReducer` implementation for a person list. The `State` is defined with `isModalOpen` and `modalContent`. The `Reducer` handles the `ADD` action by adding a new person and opening a modal. The `Modal` component is shown with the message "Item Added". The UI shows a list of people: John, Peter, Susan, Chenhsinan, and Chn, each with a "remove" button. A modal alert is displayed at the top of the page.

```
const [State, dispatch] = useReducer(
  (state, action) => {
    switch (action.type) {
      case 'ADD':
        return {
          ...state,
          people: [...state.people, { id: Date.now(), name: action.name }],
          isModalOpen: true,
          modalContent: "item added"
        };
      case 'REMOVE':
        return {
          ...state,
          people: state.people.filter((person) => person.id !== action.id)
        };
      case 'CLOSE_MODAL':
        return {
          ...state,
          isModalOpen: false,
          modalContent: ""
        };
    }
  },
  { people: [], isModalOpen: false, modalContent: "" }
);

const Modal = ({ message }) => {
  return (
    <div>
      {message}
    </div>
  );
};

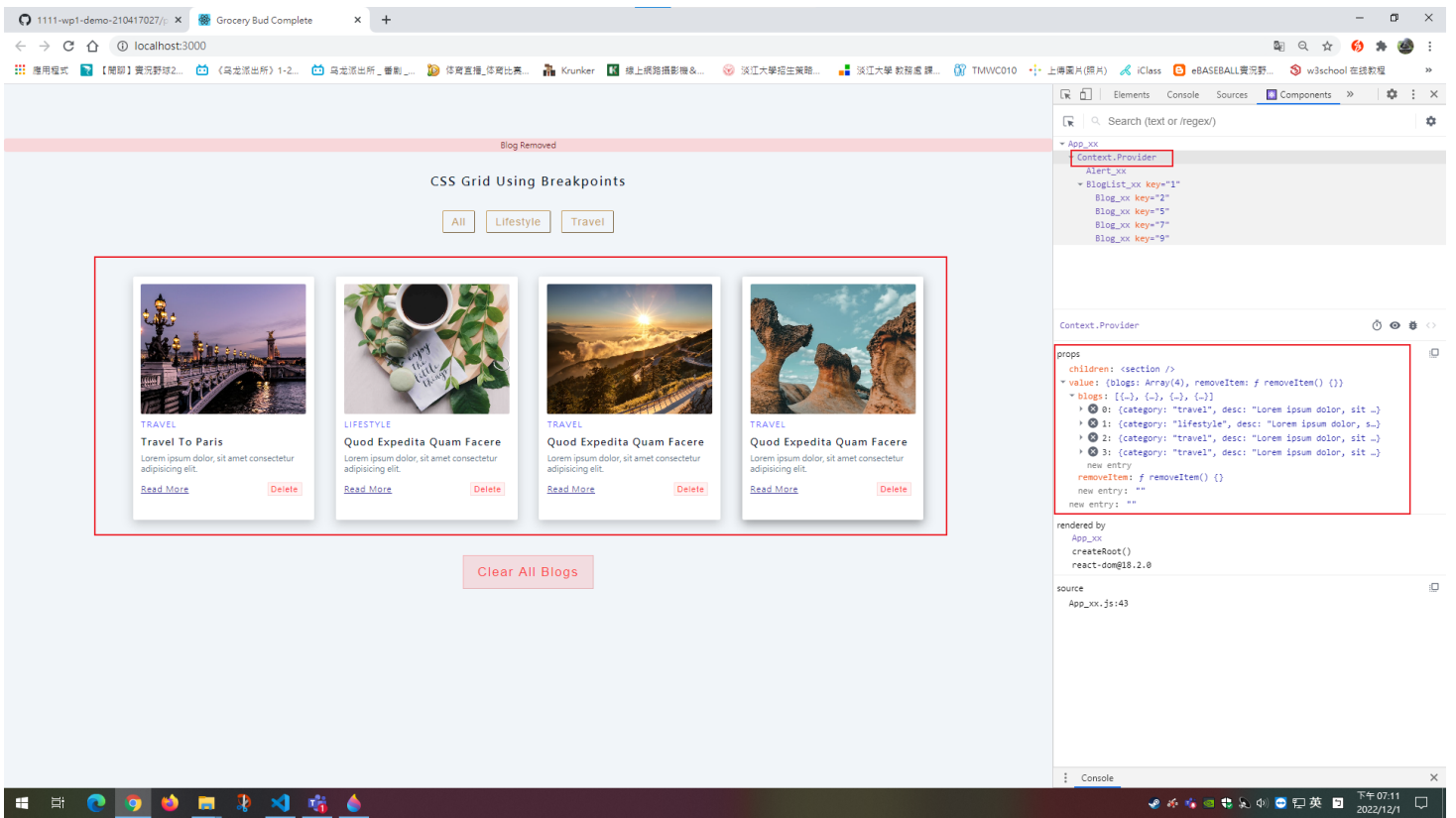
export default T6_27_useState;
```

```
src > tutorial > 6-useReducer > JS T6_27-useReducer.js > T6_27_useState
9
const defaultState = {
10
  people: data,
11
  isModalOpen: false,
12
  modalContent: ''
13
}
14
15
const T6_27_useState = () => {
16
  const [name, setName] = useState('');
17
  const [state, dispatch] = useReducer(reducer_27, defaultState);
18
19
  // const [people, setPeople] = useState(data);
20
  // const [isModalOpen, setIsModalOpen] = useState(false);
21
  // const [modalContent, setModalContent] = useState('');
22
  const handleSubmit = (e) => {
23
    e.preventDefault();
24
    if(name){
25
      const newItem = { id: new Date().getTime().toString(), name};
26
      dispatch({type: 'ADD_ITEM', payload: newItem});
27
      // setPeople([...people, newItem]);
28
      // setIsModalOpen(true);
29
      // setModalContent('item added');
30
      setName('');
31
    }else{
32
    }
33
  }
34
  const closeModal = () => {
35
    dispatch({type: 'CLOSE_MODAL'});
36
    // setIsModalOpen(false);
37
  }
38
  return <>
39
  { state.isModalOpen && <T6_xx Modal modalContent={state.modalContent}
40
    closeModal={closeModal} /> }
    <form className="form" onSubmit={handleSubmit}>
```

```
src > tutorial > 6-useReducer > JS T6_27_reducer.js >
1
export const reducer_27 = (state, action) => {
2
3
  if(action.type === 'ADD_ITEM'){
4
    const newPeople = [...state.people, action.payload];
5
    return {
6
      ...state,
7
      people: newPeople,
8
      isModalOpen: true,
9
      modalContent: 'item added'
10
    }
11
  }
12
  if(action.type === 'CLOSE_MODAL') {
13
    return{
14
      ...state,
15
      isModalOpen: false,
16
      modalContent: ''
17
    }
18
  }
19
}
```

W13-P3: Apply useContext to solve quiz 1 problem with prop drilling

```
src > JS App.jsx > Blog_xx > category
4
import Alert_xx from './components/Alert_xx';
5
6
const PersonContext = React.createContext();
7
8
const App_xx = () => {
9
  const [blogs, setBlogs] = useState(data);
10
  const [alert, setAlert] = useState({
11
    show: false,
12
    msg: '',
13
    type: ''
14
  });
15
  const removeItem = (id) => { ...
16
  }
17
  const showAlert = (show = false, msg = '', type = '') => { ...
18
  };
19
  console.log('blogs', blogs);
20
  const clearBlogs = () => { ...
21
  }
22
  const filterItems = (category) => { ...
23
  }
24
  return (
25
    <PersonContext.Provider value={ {blogs, removeItem}}>...
26
    </PersonContext.Provider>
27
  );
28
  const BlogList_xx = ({blogs, removeItem}) => {
29
    const mainData = useContext(PersonContext);
30
    console.log('MainData', mainData);
31
    return(
32
      <div className="blogs-center">
33
        { mainData.blogs.map( (blog) => { ...
34
        } ) }
35
      </div>
36
    )
37
  }
38
  const Blog_xx = ({id, img, title, desc, category}) => {
39
    const { removeItem } = useContext(PersonContext);
40
    return (
41
      <article className="blog">
```



w13-git-logs

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%" --after="2022-11-29"
54cd15c 210417027 Thu Dec 1 19:14:53 2022 +0800 W13-P3: Apply useContext to solve quiz 1 problem with prop drilling
5546543 210417027 Wed Nov 30 21:59:19 2022 +0800 1130
5a98499 210417027 Wed Nov 30 20:58:25 2022 +0800 W13-P2: Apply useReducer to add an item with modal alert
2abf137 210417027 Wed Nov 30 19:13:32 2022 +0800 W13-P1: PersonContext for T82_xx
```

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09%" --after="2022-11-29"
```

```
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5a98499 210417027 Wed Nov 30 20:58:25 2022 +0800 W13-P2: Apply useReducer to add an item with modal alert
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```