ITPRJS

Practice Problems: Week 2

1. Look at the following code snippet:

```
class StudentMangement extends React.Component {
    constructor(props) {
        super(props);
        this.state = {
            students: [],
            teachers: [],
        };
    }

    generateStudentId() {
        // ...
    }

    addStudent(name, email) {
        const id = this.generateStudentId();
        this.state.students.push({ id, name, email });
    }

    // ... more code here

    removeTeacher(id) {
        const filteredTeachers = this.state.teachers.filter(
            (teacher) => teacher.id !== id
        );
        this.setState({ teachers: filteredTeachers });
    }
}
```

What are the problems with the above code and propose solutions to those problems.

2. Create a simple todo list, users will be able to add and remove items from the todo list

HINT: Effectively removing the item from the corresponding state (using array methods similar to <u>filter</u>) will also remove the item from the DOM automatically. That's one beauty of React. Don't forget state immutability concerns of React.

3. Create a simple wallet system. There will be two categories, Income and Expense. Upon each record, a user can add the type of income/expense using a text input. The net balance should also be shown. Users will also be able to remove records

   HINT: You can keep two states, "income" and "expense". Each would be an array of objects. Each object might contain an id, amount and note.

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