

Debugging Log

You have **4** entries, which is **more** than the 3 required.

To add or remove entries, toggle the "Show" option when editing it.

Logged a total of **0.6 hours** of debugging.

Entry 1

10 minutes spent debugging

Failure

"Loading Book Review list..." message does not go away.

Experiments

Experiment 1.1

- Question:** Why is the message not going away?
- Steps Taken:** Looked at render method for loading book review list.
- Result:** I saw that we render loading book review list when this.state.books is undefined.
- Lesson:** Since we are always displaying the loading text, this.state.books must always be undefined

Experiment 1.2

- Question:** Why is this.state.books always undefined?
- Steps Taken:** Opened developer tools to see if the add button is correctly passing back the book we are trying to add.
- Result:** I realized there is a 404 error before I even try to click 'add.'
- Lesson:** The error message specifies that there is a fetch error in '/list.'

Experiment 1.3

- Question:** Why is there an error when I try to fetch the list?
- Steps Taken:** I searched my code for '/list.'
- Result:** In doRefreshTimeout, the fetch request was fetching '/lists.'
- Lesson:** There was a typo in the fetch request.

Defect

```
fetch("/api/lists")
```

Fetching '/lists' rather than '/list.'

Debugging Scope

This failure **was not** in the same function as the bug. To find the bug, I debugged through the following functions:

```
/client/src/BookReviewApp.tsx, renderBooks
/client/src/BookReviewApp.tsx, doRefreshTimeout
server/src/index.ts, app.get call
```

Entry 2

10 minutes spent debugging

Failure

Nothing happens when clicking 'add.'

Experiments

Experiment 2.1

- Question:** Why is the new book not showing up?
- Steps Taken:** Looked at developer tools to see if there are any errors.
- Result:** The request seems to successfully complete. There are no error codes.
- Lesson:** The 'add' request does not cause any errors. So, we know we are successfully adding the new book.

Experiment 2.2

- Question:** Why isn't it showing up if the request is completing?
- Steps Taken:** Tried refreshing page.
- Result:** The book is successfully added.
- Lesson:** The client isn't updating the webpage to reflect the new book addition.

Experiment 2.3

- Question:** Why isn't the client refresh the page when 'add' is clicked?
- Steps Taken:** Trace back the functions that are called after doAddClick.
- Result:** I went all the way down to doAddJson.
- Lesson:** doAddJson does not have anything to handle the case where the add input is correct. It currently only handles error cases.

Defect

```
No setState call after error checks in doAddJson.
```

doAddJson correctly checked for all errors. However, if the user input a valid book doAddJson never called setState to re-render the website.

Debugging Scope

This failure **was** in the same function as the bug. To find the bug, I debugged through the following functions:

```
/Users/saanpopovic/331 TA/staff/materials/week03/sec-starter/client/src/BookReviewApp.tsx, doAddJson
```

Entry 3

15 minutes spent debugging

Failure

Nothing happens when clicking upvote or downvote.

Experiments

Experiment 3.1

- Question:** Why doesn't anything happen when upvote/downvote are clicked?
- Steps Taken:** Looked at the developer tools console.
- Result:** I saw that clicked one of upvote/downvote throws an 400 error when trying to fetch '/vote.'
- Lesson:** The message said that the 'name' field is undefined.

Experiment 3.2

- Question:** Why is there a 400 error when pressing upvote or downvote?
- Steps Taken:** Looked at doVoteClick since this is where we are fetching data.
- Result:** When we create our body before the fetch request, the record has two fields: bookName and vote, but no 'name' field.
- Lesson:** I was not initializing the 'name' field in our book object, rather the some other field called bookName.

Defect

```
const body = { bookName: book.name, vote: vote };
```

bookName should be name.

Debugging Scope

This failure **was** in the same function as the bug. To find the bug, I debugged through the following functions:

```
/client/src/BookReviewApp.tsx, doVoteClick
/server/src/index.ts, app.post call
/server/src/routes.ts, vote
```

Entry 4

5 minutes spent debugging

Failure

Wrong number of books displayed.

Experiments

Experiment 4.1

- Question:** Why is there one less book displayed that the number of books in the list?
- Steps Taken:** Looked at the new code in doAddJson and console.logged out this.state.books.
- Result:** I realized that this.state.books is not yet updated.
- Lesson:** setState calls in the same function cannot rely on each other.

Defect

```
`List now contains ${this.state.books.length} books.`});
```

I needed to replace this.state.books.length with books.length.

Debugging Scope

This failure **was** in the same function as the bug. To find the bug, I debugged through the following functions:

```
/client/src/BookReviewApp.tsx, doAddJson
```

Edit Log

Note: this is a practice debugging log, **not the actual homework log!** Changes will not be saved!