

Error Type: Semantic

Top-Level Description: My search is not being logged to my database's history table.

bug manifestation

possible bug origin

Data Flow

Frontend

The entry is made here

frontend_display

- [Home](#)
- [Login](#)
- [Sign Up](#)
- [Users](#)
-

I send the relevant data from my search form's onChange event and dispatch in my searchHandler function

frontend_search_page_component

```

1  import React, { useState } from 'react';
2  import { useSelector, useDispatch } from 'react-redux';
3  import { Redirect } from 'react-router-dom';
4  import { createHistoryEntry } from '../store/history_store';
5  import '../Main.css';
6  import './Search_Page.css';
7
8  export const SearchPage = () => {
9      const [userID, setUserID] = useState();
10     const [search, setSearch] = useState('');
11     const [updatedAt, setUpdatedAt] = useState('');
12
13     const dispatch = useDispatch();
14
15     const user = useSelector(state => state.session.user);
16
17     const searchHandler = (e) => {
18         e.preventDefault();
19
20         console.log(userID, search, updatedAt);
21         console.log(typeof(updatedAt));
22
23         dispatch(createHistoryEntry({ userID, search, updatedAt }));
24     }
25
26     return (
27         <div>
28             <form onSubmit={searchHandler}>
29                 <input
30                     type='text'
31                     placeholder='Crawl the web.'
32                     aria-label='Crawl the web.'
33                     onChange={(e) => {
34                         setUserID(user.id)
35                         setSearch(e.target.value)
36                         setUpdatedAt((new Date()).toString())
37                     }}
38                 />
39             </form>
40         </div>
41     )
42 }

```

It's sent to my store and processed by my thunk and reducer
frontend_history_thunk

```

//$ thanks
export const createHistoryEntry = (entry) => async dispatch => {
  console.log(entry);
  const response = await fetch('/creepycrawler/history', {
    method: 'POST',
    body: JSON.stringify(entry)
  })

  if (response.ok) {
    const newEntry = await response.json();
    dispatch(createHistory(newEntry));
    return newEntry;
  }
}

```

frontend_history_reducer

```

//$ reducers
const initialState = {}
export const historyReducer = (state = initialState, action) => {
  let newState;
  switch (action.type) {
    case CREATE_HISTORY:
      newState = Object.assign({}, state);
      newState[action.payload.id] = action.payload;
      return newState;
    default:
      return state
  }
}

```

By this point, I'm receiving all the values I expect. Initially, I faced an issue with `new Date()` unexpectedly returning an object albeit appearing as a string; however, that was rectified. Here is what my console looks like:

frontend_console

▼ action session/SET_USER @ 07:08:16.353	redux-logger.js:1
prev state ▶ {session: {...}, history: {...}}	redux-logger.js:1
action ▶ {type: 'session/SET_USER', payload: {...}}	redux-logger.js:1
next state ▶ {session: {...}, history: {...}}	redux-logger.js:1
1 'dsadsad' 'Thu Oct 21 2021 07:08:17 GMT-0700 (Pacific Daylight Time)'	Search Page.js:20
string	Search Page.js:21
▶ {userID: 1, search: 'dsadsad', updatedAt: 'Thu Oct 21 2021 07:08:17 GMT-0700 (Pacific Daylight Time)'}	history_store.js:29
▼ action history_store/CREATE_HISTORY @ 07:08:18.232	redux-logger.js:1
prev state ▶ {session: {...}, history: {...}}	redux-logger.js:1
action ▶ {type: 'history_store/CREATE_HISTORY', payload: {...}}	redux-logger.js:1
next state ▶ {session: {...}, history: {...}}	redux-logger.js:1

Backend

bug manifestation

This route is hit.

backend_history_routes

```
@history_routes.route('/', methods=['POST'], strict_slashes=False)
def add_history_entry():
    """Add a search entry to history."""
    form = SearchForm()
    print('HITTTTT')
    print('form backend user_id:', form.data['user_id'])
    print('form backend search:', form.data['search'])
    print('form backend updated_at:', form.data['updated_at'])
    if form.validate_on_submit():
        parsed_js_date = form.data['updated_at'].split('-')[0]
        # converted_js_date = datetime.strptime(parsed_js_date, '%a %b %d %Y %H:%M:%S %Z')

        history_entry = History(
            user_id=form.data['user_id'],
            search=form.data['search'],
            updated_at=datetime.strptime(parsed_js_date, '%a %b %d %Y %H:%M:%S %Z')
        )
        db.session.add(history_entry)
        db.session.commit()
        return {"message": "successful"}
    return {"message": "unsuccessful" }
```

The print statement doesn't make it inside of the conditional, as evinced in my terminal.

backend_terminal

```
* Debugger is active:
* Debugger PIN: 393-098-877
* Detected change in '/Users/alejandrogrant/Desktop/code_playgrounds/app-acad-proj
* Restarting with stat
* Debugger is active!
* Debugger PIN: 393-098-877
Outside is hit?
127.0.0.1 -- [21/Oct/2021 07:54:08] "POST /creepycrawler/history HTTP/1.1" 200 --
```

This makes me think that the form may not be validating as expected.

possible bug origin

The route summons the following form

backend_search_form

```
"""Search form creation.

Receives form data from backend routes.
Processes data (validation, organization, etc.).
Holds the relevant data for backend routes.
"""

from flask_wtf import FlaskForm
from wtforms import StringField, IntegerField
from wtforms.validators import DataRequired, ValidationError

from app.api.routes.user_routes import user

class SearchForm(FlaskForm):
    """Responsible for processing search queries."""

    user_id = IntegerField('user_id', validators=[DataRequired()])
    search = StringField('search', validators=[DataRequired()])
    updated_at = StringField('updated_at', validators=[DataRequired()])

class VisitForm(FlaskForm):
    """Responsible for processing link clicks."""

    user_id = IntegerField('user_id', validators=[DataRequired()])
    visit = StringField('visit', validators=[DataRequired()])
    user_id = StringField('updated_at', validators=[DataRequired()])
```

here are relevant snippets from my database tables

backend_histories_table

id	user_id	search	visit	created_at	updated_at
----	---------	--------	-------	------------	------------

backend_users_table

media	created_at	updated_at
images/user_icon.jpg	Oct 20 10:51:13	Oct 20 10:51:13