

## 11/1

*10:30 AM - Started working on exercise 6*

Got ProblemA to work functionally, but a lot of tests are failing

- Re-read prompt, found that I misread one of the instructions and directly passed in the results into renderSearchResults instead of an object containing the results
- Not sure why all the others aren't working, will come back to later

Working on problemB, fairly straightforward

- Can't seem to get tasks to properly strikethrough when clicked
- Wasn't properly calling the toggleFinished function

Started working on problemC

- Started working on model, but there seems to be no data to import?
- Data was missing from the repo, pulled in changes

*12:20 PM - Stopped working*

## 11/4

*3:00 PM - Started working on exercise 6*

Fixed problemA

- Heard from classmates, needed to return the promise from the fetch in fetchTrackList
- Fixed empty array detection for renderSearchResults; forgot to update it when I changed what I passed in

Completed problemC

- Readline isn't working in git bash, but it passes all tests
- Switched to command prompt and it seems to work 😊

*4:20 PM - Stopped working*

## 11/8

*10:30 AM - Started working on exercise 7*

Completed problemA

- Still getting used to React, frequently referring to in-class and online examples

Started problemB

- Running into problems where I can't return adjacent JSX elements?
  - Wrapping everything in a div seemed to work
- Implemented everything except for adoption, not really sure how to tackle data flow and state changes yet

*12:20 PM - Stopped working*

## 11/10

*3:30 PM - Started working on exercise 7*

Completed problemB

- Referred to in-class demos to get a better sense of updating state

*4:30 PM - Stopped working*

## 11/13

*10:30 AM - Started working on exercise 8*

Completed problemA

- Pretty straightforward; added reactstrap styling and validation

*12:20 PM - Stopped working*

## 11/14

*6:30 PM - Started working on data explorer*

Picked data set - Seattle public library checkouts

Ran some test fetches

- Massive amounts of data, will likely need to highly limit fetches
- Kind of confused on how to search for parameters
- Found Socrata's SoQL documentation which made things make sense

Came up with basic app layout

- Only one month's data can be viewed at a time to keep it manageable
- Main view is table where each row has basic info about a checkout
- Each row can be clicked on to display further details, along with a chart of the item's checkouts over time
- Can filter based on month and year, search for certain attributes, and sort the table

Start out simple with a static version

- Broke down table into components
- Fetched in a small amount of data to populate the table
- Created non-functional filters
- DateTimePicker took a long time to get working; consulted docs many times

*8:30 PM - Took a break*

*11:00 PM - Resumed work*

## Added interactivity

- Started with monthpicker
- Updating filters in the options component passes it up to the overall app component, which then passes the filters down to the data table where they get applied
  - Not sure if this is the best way to handle it
- Added all the search box filters which were fairly similar
- Added sorting functionality for each column
  - Had to create different sort functions for each column, since their different data types behave weirdly

## Added charts!

- Experimented with charts to get a feel for how they work
- To create the charts I want to create, I need to turn the data into simple pairs of date and checkouts
- I also need all historical data; with the current flow I have where all data is fetched at the start, this means every row needs to get passed the entire data set and then it needs to search for things that match the current title
- Right now, when creating each row, I go through the entire data set and look for matches for the current title and add those to a new table, then sort it based on the date, then create a table and pass it as a prop into the row
- This works but is hilariously inefficient, will figure out how to improve later

3:30 AM - *Stopped working*

## 11/15

11:30 AM - *Started working on data explorer*

## Made lots of speed improvements

- Made table-generation logic row-specific; now they're only generated when their row is actually expanded
- Made fetches significantly more efficient
  - Only data from the currently selected month is fetched; significantly improved efficiency
  - Charts now only fetch data when they are rendered
- Search boxes now apply on onBlur instead of onChange, so they don't filter after every character typed
- Table only gets re-rendered when the filters actually change instead of every time onBlur applies

3:00 PM - *Stopped working*

8:00 PM - *Started working*

- Cleaned up code; moved the fetching, sorting, and filtering to DataModel
- Added the ability to filter based on specific media type

- Improving accessibility
  - Table headers are currently not accessible with the keyboard
    - Added tabindexes, but the headers still can't actually be pressed
    - Made them Bootstrap buttons which has the added benefit of making their function more visually clear
  - Row items aren't accessible through keyboard
    - Added/modified tabindexes so that row items don't get selected until after the filters
    - Googled and found stackoverflow threads on how to use the enter key to activate stuff; added onKeyUp handlers to table rows that toggle the detail view
- Deployed app 

*11:00 PM - Stopped working*



