Story UFC-373: Custom Pagination

The following document will go over the design of custom pagination sizes, as outlined in Story ticket UFC-373.

Acceptance Criteria

For reference, the following are the acceptance criteria for this ticket:

- I want to specify a page size different from the default 25.
- I want to specify a different page size from a given set of options.
- I don't want a page size option less than 25, since 25 seems like a good minimum.
- I want to set the page size to show all of my items.

Design Brainstorming

So, basically, we just need to modify the Pagination context to support a method for changing the page size, then create a component that modifies the page size, then add this component into the existing pagination footers.

Got it? Got it.

Steps

Modify Context

- Add an action for setPageSize.
 - Make sure to account for "all".
- Update setTotalItems to account for "all" page size.
- Add setPageSize as a function for dispatch.
- · Write tests.

Update Hooks

- Update usePaginateObjects to account for "all" page size.
 - Alternatively, create a selector that encapsulates the logic for deriving the current page slice that internally handles the "all" page size.

Create Component

Create new component PaginationPageSize.

Update Components

Add PaginationPageSize to PaginationFooter.

How to handle the "all" page size?

As I see it, there are two main options at our disposal here:

- Use a really large number to represent "all", such that no person would reasonably be able to get past it
- Use a "special value" to denote "all"
 - This could be 0 (dangerous, since accidentally doing math with 0 could explode)
 - It could be just the string "all" (meh)
 - Or it could be null or undefined (less meh but still meh)

Obviously, using a giant number is the easiest and simplest solution, since it doesn't require modifying any other code and allows us to keep the pageSize as just a number.

But it probably makes more *semantic* sense to have some sort of special value to denote "all".

However, I'm lazy, so I'm just going to decide to use a large number. I'm thinking... 10,000,000 should be sufficient. Why? Cause 1 million seems too small but 100 million seems excessive.

What size options should there be?

I'm thinking 25, 50, 100, 200, all.

That should be sufficient.

I mean, realistically, you either don't care about the pagination size or you want to see everything. So there's *almost* no point in having more options than just "25, all".

How to persist page size between refreshes?

Uh.... local storage, I guess? I don't want to put it in Redux, and I don't want to deal with IndexedDB *outside* of Redux, so... I guess it *has* to go in local storage? I mean, I don't use cookies, so where else would it go?

However, now that means that we need to associate the this piece of stored state with each instance of usePagination, since they are separate per call by component.

So... maybe we just shouldn't persist the page size. I mean, other sites don't do that, so... I think we can get away by being lazy and not doing this.

This decision has caused the removal of the following acceptance criteria:

• I want my chosen pagination size to persist between page refreshes (but not necessarily logins).

Component Breakdown

Atoms

N/A

Molecules

PaginationPageSize

Organisms

• [modification] PaginationFooter

Scenes

N/A

Tasks

- Modify context.
- Update hooks.
- Create new component.
- Update existing components.