

## 61. Invalidating the cache after createPost() - Urql Client

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### Invalidating part of the list

- When we create a new `post` it is not immediately displayed on homepage. We can `invalidate cache` so that data is reloaded and new the post appears
- We *could* simply add the new post to the top of the list, but that's more error-prone since there could be race conditions between different clients etc
- We use the `cacheExchange` in `Urql Client config` and add the `createPost mutation` so that everytime it is executed `the entire posts query` in the `cache` will be `invalidated` (as opposed to `invalidating a single post` as in [76. Invalidating the cache after deletePost\(\) - Urql Client](#) )
- We also get the `previousLimit` (should never be `null` anyway) from the `Query` to pass it back to the new `posts query` that will be executed, so the same number of results are displayed.

/utils/createUrqlClient.ts

```
updates: {
  Mutation: {
    createPost: (result, args, cache, info) => {
      var previousLimit = cache
        .inspectFields("Query")
        .find((f) => f.fieldName === "posts")?.arguments?.limit as number;
      cache.invalidate("Query", "posts", {
        limit: previousLimit,
      });
    },

    logout: (result, args, cache, info) => { ...
```

- **Note that** adding `cursor: null` to the third parameter of `cache.invalidate()` results in a `new` query being created **instead of replacing** the previous query since the previous query does not have a `cursor` field in its `fieldKey` (see screenshot below)

⚠ so this is wrong:

```
createPost: (result, args, cache, info) => {
  console.log("start");
  console.log(cache.inspectFields("Query"));
```

```

cache.invalidate("Query", "posts", {
  limit: 10,
  cursor: null
});
console.log(cache.inspectFields("Query"));
console.log("end");
},

```

and results in this:

```

start createUrqlClient.ts:105
createUrqlClient.ts:106
▼ (2) [{...}, {...}] 4
  ▶ 0: {fieldKey: 'posts({"limit":10})', fieldName: 'posts', arguments: {...}}
  ▶ 1: {fieldKey: 'me', fieldName: 'me', arguments: null}
  length: 2
  ▶ [[Prototype]]: Array(0)
createUrqlClient.ts:111
▼ (3) [{...}, {...}, {...}] 4
  ▶ 0: {fieldKey: 'posts({"limit":10})', fieldName: 'posts', arguments: {...}}
  ▶ 1: {fieldKey: 'me', fieldName: 'me', arguments: null}
  ▶ 2: {fieldKey: 'posts({"cursor":null,"limit":10})', fieldName: 'posts', arguments: {...}}
  length: 3
  ▶ [[Prototype]]: Array(0)
end createUrqlClient.ts:112

```

## Invalidating the entire list

- But we could have a big paginated list created by clicking “load more” a couple of times, , how do we know which part of it to invalidate? : Answer is we don’t, so we will actually have to **invalidate the entire list**, otherwise the other parts will remain in the **cache** and could cause **errors / unexpected behaviour**
- We will do it in a similar way we did the **cursorPagination** as follows
- Similar to the initial implementation, **fi.arguments** should never be **null** anyway

/utils/createUrqlClient.ts

```

createPost: (result, args, cache, info) => {
  const allFields = cache.inspectFields("Query");
  // filter allFields to get only the field infos related to the field we want to
  work on
  const fieldInfos = allFields.filter(
    (info) => info.fieldName === "posts"
  );
  fieldInfos.forEach((fi) => {
    cache.invalidate("Query", "posts", fi.arguments || {});
  });
},

```

