Challenge: Apollo Client and GraphQL Pagination

Test your understanding of GraphQL and Apollo Client and implement pagination!

WE'LL COVER THE FOLLOWING ^

- Problem Statement
- Solution

Problem Statement

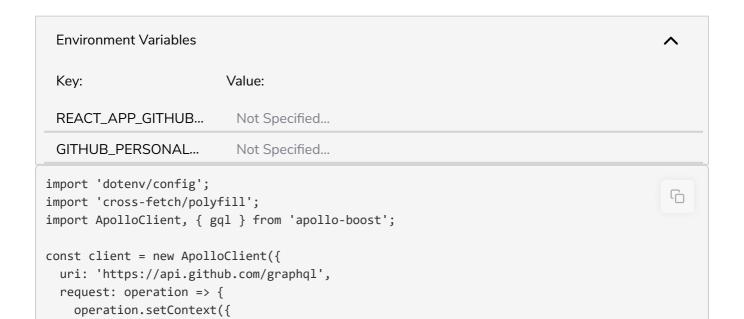
- 1. Extend the **repositories** list field by querying an ordered list of repositories which is ordered by the number of stargazers
- 2. Extract the content of a repository node to a GraphQL a reusable fragment
- 3. Add the pagination feature for list of repositories
 - Add the pageInfo field with its endCursor and hasNextPage fields in the query
 - Add the after argument and introduce a new \$cursor variable for it
 - Perform the first query without a cursor argument
 - Perform a second query with the endCursor of the previous query result as cursor argument.



```
request: operation => {
    operation.setContext({
      headers: {
        authorization: `Bearer ${process.env.GITHUB_PERSONAL_ACCESS_TOKEN}`,
   });
  },
});
const GET_REPOSITORIES_OF_ORGANIZATION = gql`
  query($organization: String!) {
    organization(login: $organization) {
      url
      repositories(first: 5) {
        edges {
          node {
            name
            url
        }
      }
    }
  }
client
  .query({
   query: GET_REPOSITORIES_OF_ORGANIZATION,
    variables: {
      organization: 'the-road-to-learn-react',
    },
  })
  .then(console.log);
                                                                             []
```

Solution

Let's have a look at the solution:



```
headers: {
        authorization: `Bearer ${process.env.GITHUB_PERSONAL_ACCESS_TOKEN}`,
   });
  },
});
const GET_REPOSITORIES_OF_ORGANIZATION = gql`
  query($organization: String!, $cursor: String) {
    organization(login: $organization) {
      url
      repositories(
       first: 5
        orderBy: { direction: DESC, field: STARGAZERS }
        after: $cursor
      ) {
        edges {
          node {
            ...repository
          }
        }
        pageInfo {
          endCursor
          hasNextPage
      }
    }
  }
  fragment repository on Repository {
    name
    url
  }
client
  .query({
    query: GET_REPOSITORIES_OF_ORGANIZATION,
    variables: {
      organization: 'the-road-to-learn-react',
      cursor: undefined,
   },
  })
  // resolve first page
  .then(result => {
    const { pageInfo, edges } = result.data.organization.repositories;
    const { endCursor, hasNextPage } = pageInfo;
    console.log('second page', edges.length);
    console.log('endCursor', endCursor);
    return pageInfo;
  })
  // query second page
  .then(({ endCursor, hasNextPage }) => {
    if (!hasNextPage) {
      throw Error('no next page');
    }
    return client.query({
      query: GET_REPOSITORIES_OF_ORGANIZATION,
      variables: {
```

```
organization: 'the-road-to-learn-react',
    cursor: endCursor,
},
});
});
})
// resolve second page
.then(result => {
    const { pageInfo, edges } = result.data.organization.repositories;
    const { endCursor, hasNextPage } = pageInfo;

    console.log('second page', edges.length);
    console.log('endCursor', endCursor);

    return pageInfo;
})
// log error when there is no next page
.catch(console.log);
```







()