Challenge: Implement `removeStar` Mutation

Test your skills and implement another mutation using Apollo Client!

WE'LL COVER THE FOLLOWING ^

- Problem Statement
- Solution

Problem Statement

Implement the removeStar mutation next to the addStar mutation and then execute it for the same repository that you are starring. Your console should first log the addStar mutation and then the removeStar mutation.

```
Environment Variables
 Key:
                         Value:
 REACT_APP_GITHUB...
                          Not Specified...
 GITHUB_PERSONAL...
                         Not Specified...
import 'dotenv/config';
import 'cross-fetch/polyfill';
import ApolloClient, { gql } from 'apollo-boost';
const client = new ApolloClient({
  uri: 'https://api.github.com/graphql',
  request: operation => {
    operation.setContext({
      headers: {
        authorization: `Bearer ${process.env.GITHUB_PERSONAL_ACCESS_TOKEN}`,
      },
    });
  },
});
const GET_REPOSITORIES_OF_ORGANIZATION = gql`
  query($organization: String!, $cursor: String) {
    organization(login: $organization) {
      name
      url
      repositories(
```

```
first: 5
        orderBy: { direction: DESC, field: STARGAZERS }
        after: $cursor
      ) {
        edges {
          node {
            ...repository
          }
        }
        pageInfo {
          endCursor
          hasNextPage
        }
      }
    }
  }
  fragment repository on Repository {
    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);
const ADD_STAR = gql`
  mutation AddStar($repositoryId: ID!) {
    addStar(input: { starrableId: $repositoryId }) {
      starrable {
        id
        viewerHasStarred
    }
  }
client
  .mutate({
   mutation: ADD_STAR,
    variables: {
      repositoryId: 'MDEwOlJlcG9zaXRvcnk2MzM1MjkwNw==',
    },
  })
  .then(console.log);
```

Solution

Let's have a look at the solution:

```
Environment Variables
 Key:
                          Value:
 REACT_APP_GITHUB...
                          Not Specified...
 GITHUB_PERSONAL...
                          Not Specified...
import 'dotenv/config';
import 'cross-fetch/polyfill';
import ApolloClient, { gql } from 'apollo-boost';
const client = new ApolloClient({
  uri: 'https://api.github.com/graphql',
  request: operation => {
    operation.setContext({
      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 {
    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);
const ADD_STAR = gql`
  mutation AddStar($repositoryId: ID!) {
    addStar(input: { starrableId: $repositoryId }) {
      starrable {
        id
        viewerHasStarred
    }
  }
const REMOVE_STAR = gql`
  mutation RemoveStar($repositoryId: ID!) {
    removeStar(input: { starrableId: $repositoryId }) {
      starrable {
        id
        viewerHasStarred
      }
    }
 }
`;
client
  .mutate({
   mutation: ADD_STAR,
    variables: {
      repositoryId: 'MDEwOlJlcG9zaXRvcnk2MzM1MjkwNw==',
   },
  })
  .then(console.log);
client
  .mutate({
   mutation: REMOVE_STAR,
    variables: {
      repositoryId: 'MDEwOlJlcG9zaXRvcnk2MzM1MjkwNw==',
    },
  })
  .then(console.log);
```





