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The following program is designed to test the basic skills for ReactJS along with the react core components, project basic architecture & GraphQL through a simple CRUD app. Let's see how much you think in React.

Design File:

<https://www.figma.com/file/Uyuh5ILZcyucx96ifKO2GP/React-GraphQL-Test?node-id=0%3A1>

The screenshot displays a web application design for a React GraphQL CRUD app. The interface is divided into a sidebar and a main content area. The sidebar on the left has a blue header with 'React GraphQL' and two tabs: 'CRUD' (selected) and 'Blank'. Below the header, the sidebar lists 'Users', 'Posts', and 'Comments'. The 'Users' section is expanded, showing a list of users: 'John Doe' (selected) and 'Rahmat Ali'. The main content area is titled 'Edit a User' and features an 'UPDATE' button in the top right corner. The form contains three sections: 'Name' with a text input field containing 'John Doe'; 'Address' with a text input field containing 'Dhaka, Dhaka, Bangladesh'; and 'Posts' with a search bar labeled 'Search Posts And Tag' and a list of two items: 'Building a Huge Site With ReactJS Javascript Library' and 'this is my second post'. Each item in the list has a close icon (X) next to it.

Story:

Imagine you are building a blog site with GraphQL and you need a Panel to insert your data. You have **Users** Data, **Post** Data & **Comment** Data. While writing **Post** a user is able to tag **Comments** in the post. While Editing **Users** data you can tag **Posts** and vice versa. Explore the design in Figma to get a better idea.



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Application Summary:

It's a Single Page Application. It has two pages connected to the UI Route (CRUD, Blank).

In CRUD Page,

- First Column has the Name of Models (**Users**, **Posts**, **Comments**).
- Second Column is depended on the first column on click, and It fetches all the Data connected to the first column. Ex, If you click **Users** it second column will have the list of all users.
- Third column is a Form to edit the Single Entity of the Data.
 - Each editing form has fields related to the model itself along with a typeahead Input field. For example, While editing **Posts** typeahead field will be able to search for existing **Comments**. While editing the **Users** the typeahead input field will be able to search for existing **Posts** and vice versa. (See Figma Design for better Idea)
 - **Comments** has Backward Connection to Posts which means while editing a comment a user can tag a Single Post to It.

In Blank Page,

- This page is empty !

Tools :

Use any of your favourite Graphql Explorer to explore all the queries & mutations. **No data inserted in the projects so, Please insert some demo data of your own via mutation.** Use only the query & mutation & parameter that is needed or required.

GraphAPI : <https://api.apito.io/secured/graphql>

Authorization : Bearer

6rZvWY1K4jgvV6WNVR93c7RXxXeI6CwetOZv23K6sGbu3VhRIAEA2Zb3wlsDCqIaMAjkxyKA9ABNYI
KKwl2HgXvQYSxtQqkGVIW0VuR4ugGHWx0LFQvCotao0jfaFIg8T0oBcyCvylRs5NRcAY5L3ho5wQObO
Dx

Conditions:

- Use any UI lib you want. We prefer *Ant Design*
- Use any React framework you want or Use Default Create React App. We prefer *Next.js*
- Use only *Apollo Client* for Store & State



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- Deploy static files with *Vercel* to show us the final result. Submit the code via public github link. (Avoid hardcoding the token in the app. Load it from ENV variable)

Timeline: 5 days

Bonus: Create/Update is Missing from the Design. So, try adding a Create Data Modal for each model.

Questions & Submissions: Through Email

GraphQL Query Samples: Use any GraphQL Playground or Explorer (<https://github.com/graphql/graphql-playground>) you like to explore the variables

Query & Mutation Names:

mutation MyMutation

- ▶ createComment
- ▶ createPost
- ▶ createUser
- ▶ deleteComment
- ▶ deletePost
- ▶ deleteUser
- ▶ updateComment
- ▶ updatePost
- ▶ updateUser
- ▶ userLogin

query MyQuery

- ▶ comment
- ▶ comments
- ▶ commentsConnection
- ▶ post
- ▶ posts
- ▶ postsConnection
- ▶ user
- ▶ users
- ▶ usersConnection



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Sample Queries (More queries are available in the graphql endpoint. Use any graphql explorer to explore)

```
query SampleQueries {  
  users {  
    id  
    data {  
      email  
      first_name  
      phone  
    }  
  }  
  posts {  
    id  
    data {  
      title  
      body {  
        text  
      }  
    }  
  }  
  user(_id: "") {  
    id  
    data {  
      email  
      first_name  
      phone  
      avatar {  
        url  
      }  
    }  
  }  
  post(_id: "") {  
    id  
    data {  
      title  
      body {
```



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```
      text
    }
  }
}
comments {
  id
  data {
    body {
      text
    }
  }
}
comment(_id: "") {
  id
  data {
    body {
      text
    }
  }
}
}
```

Sample Mutations (More mutations are available in the graphql endpoint. Use any graphql explorer to explore)

```
mutation MyMutation {
  createPost(payload: {title: "", body: {html: ""}}) {
    id
  }
  createComment(payload: {body: {html: ""}}) {
    id
  }
  updatePost(_id: "") {
    data {
      title
      body {
        text
      }
    }
  }
}
```



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```
}  
  id  
}  
userRegister(phone: "", secret: "") {  
  id  
  id_token  
  refresh_token  
}  
}
```

Submission Deadline: 11pm, 28 January 2022

Submission Email: fahim.shoumik@shikho.tech