

Phone Book Project Assignment

Technical Requirements

- Use **Typescript**
- Build a web app using **React.js** (allowed to use Create React App, Create Next App, or your starter template) Your web app UI/UX should be **mobile-first & single page application** (SPA) and follow the requirements listed below
- Use GraphQL, to get a contact list and submit contact (you can use GQL clients such as [Apollo Client](#), [Relay](#), etc). Please refer to [this](#) JSON collection and import it to your Postman. You can also explore the query using [this](#) site with GQL endpoint <https://wpe-hiring.tokopedia.net/graphql>.
- Use CSS in Js (prefer [emotion](#)).
- Collection data (list of contact) should persist, not be removed/reset on page reload. Use Web Storage API to store this data.
- Make your web app as performant as possible. You can use tools such as Lighthouse to help you audit your web app.
- Kindly provide **hosted project repository** (can be GitHub, GitLab, or Bitbucket)and **deployed web-app**(you can use free platform solutions such as [Vercel](#), [Surge](#), [Github Pages](#), [Firebase](#), [Netlify](#), or others)

Functionality Requirements

- **Contact List page**

Title	User Story	Importance
Contact list	<p>As a user, I can see my favorite contact on top of the contact list, followed by 10 regular contacts on the initial page load.</p> <p>Acceptance Criteria:</p> <ul style="list-style-type: none">• For each contact, show info at least the name and phone number.• The Contact List page should have pagination functionality.• The user should be able to add a regular contact to the favorite list, and the favorite contact will be removed from the regular contact list• The user should be able to add a new contact to the list• The user should be able to delete a contact from the list• The user should be able to search for contact	Must Have
Edit Contact	<ul style="list-style-type: none">• The user should be able to edit the contact	Optional

- **Form Contact page**

Title	User Story	Importance
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Form Contact	As a user, I can submit new contact Acceptance Criteria: <ul style="list-style-type: none"> • Contact Name must be unique and doesn't have a special Character • The number can be multiple 	Must Have
Form edit contact	As a user, I can submit edited existing contact Acceptance Criteria: <ul style="list-style-type: none"> • The user should be able to see current contact information • Contact Name must be unique and doesn't have a special Character 	Optional

Additional Requirement

You also can follow the requirements below but not mandatory.

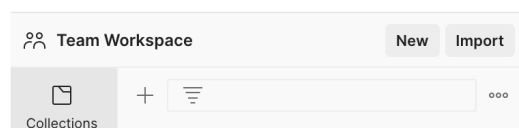
- Your web app should have good UI/UX on mobile AND desktop views.
- Good and usable UI / UX is a plus! We appreciate you if you could give your best in designing great UI for your customers when you join Tokopedia.
- Automated test (integration test and unit test) is a big plus
- Web Platform Engineers in Tokopedia are currently using these stacks, so we expect you to be able to show us your competencies with the technologies listed below:

- React with React Hooks and React Context
- GraphQL using Apollo Client ([Apollo GraphQL | Supergraph: unify APIs, microservices, & databases in a composable graph](#))
- CSS-in-JS using Emotion ([Emotion – Introduction](#))
- Unit Test using Jest ([Jest](#)) and React Testing Library ([Testing Library | Testing Library](#))
- Webpack
- AMP, PWA, SPA & SSR (Universal Rendering)
- Web Capabilities ([New capabilities status - Chrome Developers](#))

Postman Playground

This is how to use Postman as your playground to explore query and mutation in Phonebook assignment

- Install [Postman](#) on your computer
- Download the project from [here](#)
- Import project in Postman



Import

×





Select files to import · 1/1 selected

NAME	FORMAT	IMPORT AS
Phone Book	Postman Collection v2.1	Collection

Cancel

Import

- You can see a list of queries and mutation

▼ Phone Book
▼  List
POST GetContactList
POST GetContactDetail
POST GetPhoneList
▼  Create
POST AddContactWithPhones
POST AddNumberToContact
▼  Edit
POST EditContact
POST EditPhoneNumber
▼  Delete
POST DeleteContactPhone

- Explore the query and mutation to get your data

Phone Book

✓

List

POST

GetContactList

POST

GetContactDetail

POST

GetPhoneList

✓

Create

POST

AddContactWithPhones

POST

AddNumberToContact

✓

Edit

POST

EditContact

POST

EditPhoneNumber

✓

Delete

POST

DeleteContactPhone

POST

https://web-tools.tokopedia.com/postgres/v1/graphql

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

Auto-fetch

Schema Fetched

QUERY

GRAPHQL VARIABLES

1

2

3

4

5

6

7

8

9

10

11

12

```
query GetContactList ($limit:Int, $offset: Int) {
  contact(limit: $limit, offset: $offset) {
    created_at
    first_name
    id
    last_name
    phones {
      number
    }
  }
}
```

1

2

3

4

```
{
  "limit": 10,
  "offset": 1
}
```

Use GQL Playground

You also can use GQL Playground and access [Hiring GraphQL Playground](#) to get more information about the GQL