



React.js

Lecture 5

Agenda

- Recap last lecture points
- Forms
- Native vs third party forms handler
- General Topics
- Open discussion and questions



Forms

Forms in React

We can handle forms in different ways:

Here's the most native and simple ways to handle it using hooks,

<https://www.freecodecamp.org/news/how-to-build-forms-in-react/>

With React 19 new hooks appeared to handle the forms on servers directly (self study)

server-side functions you can call directly from your React components (or form submissions) without building a separate API layer.

<https://www.youtube.com/watch?v=ExZUdkfu-KE&t=443s>

Forms in React

For More Organized, complex and advanced forms handling, You can use forms third parties like

- Formik with Yup for validation

<https://formik.org/>

- React hook form with Zod

<https://react-hook-form.com/>

Extra Topics

Code Splitting

Bundling is great, but as your app grows, your bundle will grow too. Especially if you are including large third-party libraries. You need to keep an eye on the code you are including in your bundle so that you don't accidentally make it so large that your app takes a long time to load.

To avoid winding up with a large bundle, it's good to get ahead of the problem and start “splitting” your bundle

<https://dev.to/franklin030601/code-splitting-in-react-js-4o2g>

Code Splitting

`import()`

The best way to introduce code-splitting into your app is through the dynamic `import()` syntax.

`React.lazy`

The `React.lazy` function lets you render a dynamic import as a regular component.

Code Splitting

Before:

```
import OtherComponent from './OtherComponent';
```

After:

```
const OtherComponent = React.lazy(() => import('./OtherComponent'));
```

This will automatically load the bundle containing the OtherComponent when this component is first rendered. React.lazy takes a function that must call a dynamic import(). This must return a Promise which resolves to a module with a default export containing a React component.

Code Splitting

The lazy component should then be rendered inside a Suspense component, which allows us to show some fallback content (such as a loading indicator) while we're waiting for the lazy component to load.

Example:

```
import { Suspense } from 'react';

<Suspense fallback={<div>Loading...</div>}>

  <OtherComponent />

</Suspense>
```

Deployment

<https://create-react-app.dev/docs/production-build>

`npm run build`

creates a build directory with a production build of your app. Inside the build/static directory will be your JavaScript and CSS files. Each filename inside of build/static will contain a unique hash of the file contents. This hash in the file name enables long term caching techniques.

Env variables

<https://vite.dev/guide/env-and-mode>

- Create .env file at the same level of src folder
- Any environment variable should start with VITE then the key name like
 - VITE_APP_BASE_URL=<http://test.com>
- You can use the env variable in your code using the following
 - {import.meta.env.VITE_APP_BASE_URL}

Thank you

Lap

Task :Register form

In the register page with the following fields. [Native]

- Email address [required—email format] (regex)
- Name [required]
- Username [required—contains no spaces]
- Password [required—password length not less than 8 characters, contains at least one lowercase letter, one uppercase letter, at least one digit, and a special character [example: *@%\$#] (regex)
- Example of a valid password: P@ssword1234
- Confirm password: [required—matches previous password]
- **[Bonus]** Try to show all errors when the user clicks on the register button at the beginning.
- After the user submits the form, please alert the object of data and redirect the user to the home page (products list)

The image shows a registration form with the following fields:

- Name: An input field for entering a name.
- Email: An input field for entering an email address.
- User Name: An input field for entering a username.
- Password: An input field for entering a password.
- Confirm Password: An input field for confirming the password.

At the bottom of the form is a green rectangular button labeled "Register".

Task :Contact us form

In the contact us page apply the following fields with validation [Using third party]

- Email address [required—email format]
- First Name [required]
- Last Name [required]
- Phone Number [optional]
- Message [Required, min 10 characters , max 500]

After submit , show a success message that we will get to you soon, then reset the form values.

- **[Bonus]** Extra, try to use a phone number package with countries and phone number formats

Send Us a Message

Please fill in the form below to get in touch with us.

First name Last name

Email address Phone Number

Message

I've read and agree with [Terms of Service](#) and [Privacy Policy](#).

Submit

Ecommerce App

General enhancements for the tasl

- Apply code splitting for pages.
- Add api base url to env file