React.js

Lecture 2

Agenda

- Recap last lecture points.
- Integrate with UI libraries
- React Hooks
- Handling Forms
- Conditional Rendering
- Questions!

UI Libraries

- Bootstrap
  - npm install bootstrap
- React Bootstrap
  - https://react-bootstrap.github.io/getting-started/introduction/
- Material ui
- Semantic UI
- Ant design

Conditional Rendering

Conditional rendering in React works the same way conditions work in JavaScript. Use JavaScript operators like if or the conditional operator - ternary operator - to create elements representing the current state, and let React update the UI to match them or use Logical && Operator.

React Hooks

What is hooks ?

Hooks are a new addition to React in version 16.8 that allows you use state and other React features, like lifecycle methods, without writing a class.

React Hooks

useState :

lets you use local state within a function component.

Usage :

```
const [state, stateUpdaterFunction] = useState(initialStateValue)
```

React Hooks

useEffect :

accepts a function which can perform any side effects.

Usage :

```
useEffect(() => {

    return () => {

     //clean your code on unmount component

    }

}, arrayDependencies);
```

[] : empty array means to fire on mount only

[dependencies] : means to fire on mount and with every change in this dependency value

Forms

HTML form elements work a little bit differently from other DOM elements in React, because form elements naturally keep some internal state.

Let's explore How to handle forms.

Forms

Native way

Let's explore How to handle forms.

https://www.youtube.com/watch?v=A94F0vaBomQ&list=PLC3y8-rFHvwiPmFbtzEWjESkqBVDbdgGu

Forms

Formik

Thank you

Lecture 2
LAP

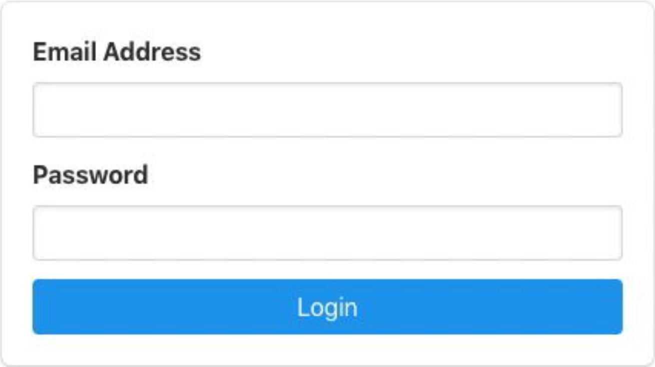
Task :Login form

Create a TO DO react app contains of 2 pages **functional components with react hooks :**

First step will contain login page with forms has fields :

- **Email address** - required - email format (REGEX) xxx@xxxx.com
- **Password** - required - password length not les than 8 characters
- show and hide password

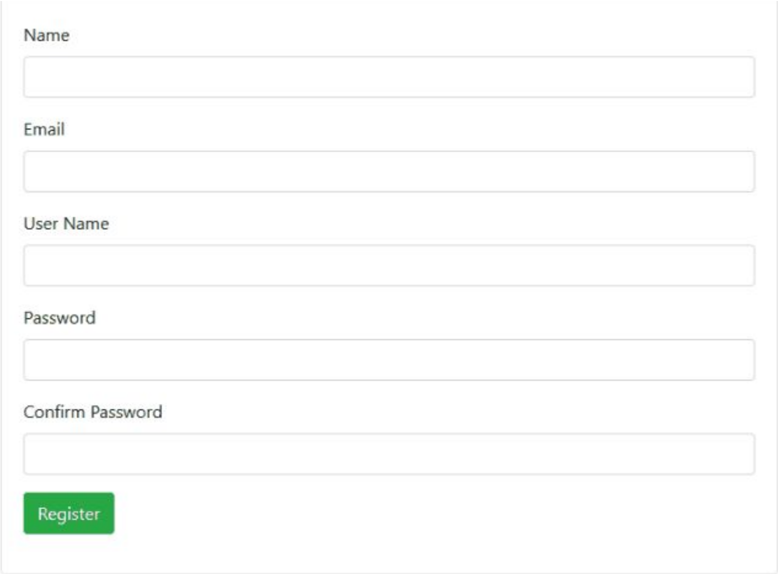
You can use formik if you want in this form



Task :Register form

Second page is register page with the following fields.

- Email address [required - email format]
- Name [required]
- Username [required - contains no spaces]
- Password [required - password length not less than 8 characters , contains at least one lowercase , one uppercase , at least one digit and special character [example : *@%$#]]
- Example for valid Password : P@ssword1234
- Confirm password : [required - matches previous password]



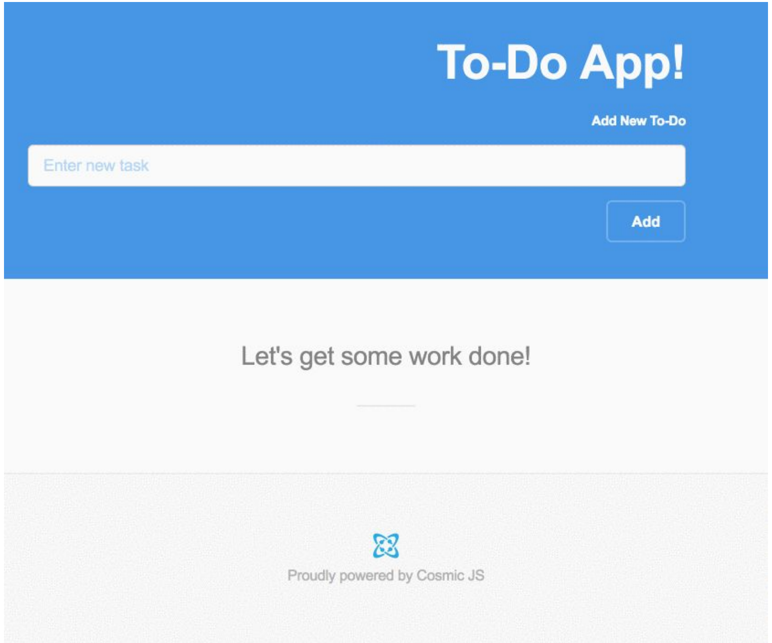
Task : To Do App [Bonus]

Second step will contain To do form with a required input field with add button for tasks as shown in the image.

After adding task should be added in list with mark as done and delete buttons :

- Mark as done will add strikethrough on text**[Bonus]**
- Delete will remove task from list

Using reusable components and passing data through components



Let's get some work done!

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