#### **React JS**

Lecture 4 (SignIn - SignUp forms)



#### **Registration Page**

- Validate username
- Validate password and matching password
- (register only when data is valid)

#### Register

Already registered?

Username:	Start with letter Contain at least 3 letters
Password:	Contain at least 1 letter, 1 number, 1 specia
Confirm Password:	Must match!
Sign Up	Disabled until all valid

#### **Registration Page: expressions!**

Register	
Username:	_
Password:	_
Confirm Password:	
Sign Up	

```
const user_regex= /^[a-zA-Z][a-zA-Z0-9-_]{3,23}$/;
const pwd_regex= /^(?=.*[a-z])(?=.*[A-Z])(?=.*[0-9])(?=.*[!@#$%]).{8,24}$/;
```

#### Registration Page: states!

# export default function Register() { const [user,setUser]= useState(''); const [validName, setvalidName]= useState(false); //is the name correct const [nFocus, setnFocus]= useState(false); //focus on the input field

Register

Password:

#### Registration Page: cont.,

	Confirm Password:
<pre>const [pwd,setPwd]= useState(''); const [validPass, setvPass]= useState(false); const [passFocus, setpFocus]= useState(false);</pre>	Sign Up
<pre>const [mpwd,setmPwd] = useState(''); const [vmPass, setvmPass] = useState(false); const [mpfocus, setmpFocus] = useState(false);</pre>	
<pre>const [success, setSuccess]= useState(false);</pre>	

Register

Username:

Password:

#### **Registration Page: validation!**

Register
Username:
Password:
Confirm Password:

```
useEffect(()=>{
    setvalidName(user_regex.test(user))
},[user])

useEffect(()=>{
    console.log(pwd)
    console.log(pwd_regex.test(pwd))
    setvPass(pwd_regex.test(pwd))
    setvmPass(pwd===mpwd)
},[pwd,mpwd])
```

### Username: v 4 to 24 characters must begin with a letter

```
<label htmlFor='username'>Username: </label>
<input
    type='text'
    id='username'
    value={user}
    required
    autoComplete='off'
    onChange={(e)=>setUser(e.target.value)}
    aria-invalid={validName?'false':'true'}
    aria-describedby='usernote'
    onFocus={()=>setnFocus(true)}
    onBlur={()=>setnFocus(false)}
/>
```

## V 4 to 24 characters must begin with a letter

```
<label htmlFor='username'>Username: </label>
   type='text'
   id='username'
   value={user}
   required
   autoComplete='off'
   onChange={(e)=>setUser(e.target.value)}
   aria-invalid={validName?'false':'true'}
   aria-describedby='usernote'
   onFocus={()=>setnFocus(true)}
   onBlur={()=>setnFocus(false)}
"offscreen"}>
4 to 24 characters <br/>
must begin with a letter <br/>
```

#### Password:

8 to 24 characters.

Must include uppercase and lowercase letters, a number and a special character.

```
<label htmlFor="password"> Password: </label>
<input
    type="password"
    id="password"
    onChange={(e) => setPwd(e.target.value)}
    value={pwd}
    required
    aria-invalid={validPass ? "false" : "true"}
    aria-describedby="pwdnote"
    onFocus={() => setpFocus(true)}
    onBlur={() => setpFocus(false)}
/>
```

#### Password:

8 to 24 characters.

Must include uppercase and lowercase letters, a number and a special character.

```
<label htmlFor="password"> Password: </label>
<input
    type="password"
    id="password"
    onChange={(e) => setPwd(e.target.value)}
    value={pwd}
    required
    aria-invalid={validPass ? "false" : "true"}
    aria-describedby="pwdnote"
    onFocus={() => setpFocus(true)}
    onBlur={() => setpFocus(false)}
```

#### **Registration Page: submit validation!**

```
<button disabled={!validName || !validPass ||
    !vmPass ? true : false}>Sign Up</button>
```

```
const handleRegister = (e) =>
{
        e.preventDefault();
        //check with server if the entries are valid
        //check with server if user does not exist
        //check with server if information are saved
        setSuccess(true);
        setUser('')
        setPwd('')
        setmPwd('')
}
```

#### Register

Passwo	rd:	
Confirm	Password:	
Confirm	Password:	
Confirm	Password:	

Already registered?

#### **Login Page**

- Validate username and password with the server
- Reroute the user to home page
- Get token + set success values

#### Sign In

Username:		
Password:		
	Sign In	

Need an Account?

Sign Up



#### Recap: react props and hooks

```
const App = () => {
  return( <ParentClass color= "blue"/> ); }

const ParentClass = (props) => (
  <ChildClass color= {props.color} /> )

const ChildClass = (props) => (
  <GrandChildClass color= {props.color} /> )

const GrandChildClass = (props) => (
  Color: {props.color}  )
```

- Props drilling!
- Alternative way?

Context provides a way to pass data through the component tree without having to pass props down manually at every level.

#### **Context API**

- Using React.createContext, we can create context and pass anything as an argument to React.createContext
- Provider The component that provides the value
- Consumer A component that is consuming the value

```
import React, { createContext,
useContext, useState } from 'react';
```

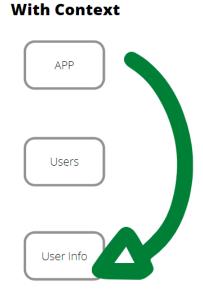
#### **1 Create Context**

#### **Context API**

2 attach provider to the root of your App

## APP Users

User Info



#### **Context API**

**3 Consuming the context + update** 

#### **Login Page**

```
const { setAuth } = useContext(AuthContext);

const [user, setUser] = useState('');
const [pwd, setPwd] = useState('');
const [success, setSuccess] = useState(false);
const [errMsg, setErrMsg]= useState('')
```

```
const handleSubmit = async (e) => {
  e.preventDefault();
  try {
    //call API
    //const accessTokn=response?.data?.accessToken;
    //const roles = response?.data?.roles;
    //setAuth({ user, pwd, roles, accessToken });

setUser('');
setPwd('');
setSuccess(true);
} catch (err) { }
}
```

#### Sign In

Username:	
Password:	
	Sign In

Need an Account?

Sign Up

#### **Login Page**

```
<form onSubmit={handleSubmit}>
<label htmlFor="username">Username:</label>
<input
type="text"
id="username"
autoComplete="off"
onChange={(e) => setUser(e.target.value)}
value={user}
required
<label htmlFor="password">Password:</label>
<input
type="password"
id="password"
onChange={(e) => setPwd(e.target.value)}
value={pwd}
required
```

```
<button>Sign In</button>
</form>

Need an Account?<br />
<span className="line">
<Link to='/register'> Sign Up</Link>
</span>
```

#### **Context Page**