

UseEffect



useEffect is a crucial hook in React Native for managing side effects in functional components.

- > Fetching data from an API.
- > Subscribing and unsubscribing from event listeners.
- Updating the component's state based on props.



useEffect(callback, dependencies) {}

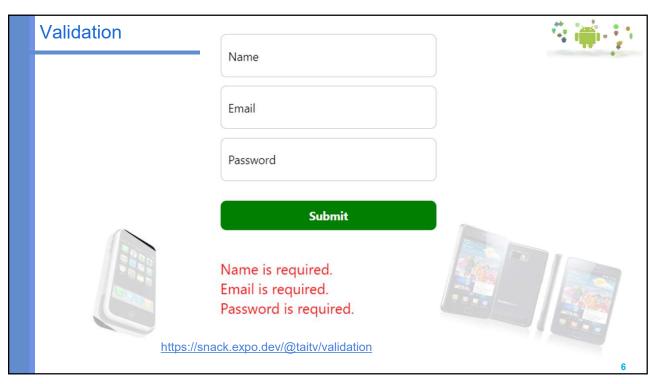


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```
UseEffect
                import React, { useState, useEffect } from 'react';
                import {View,Text, Button,Alert} from 'react-native'
                export default App=()=> {
                 const [count, setCount] = useState(0);
                  const [flag, setFlag] = useState(0);
                   useEffect(() => {
                        Alert.alert("Render");
                  ,[])
                                               dependencies
                  return (
                   <View>
                     <Text>You clicked {count} times</Text>
                     <Button title="Click me" onPress={() => setCount(count + 1)}/>
                     <Button title="Click me" onPress={() => setFlag(!flag)}/>
                   </View>
                  );
                     https://snack.expo.dev/@taitv/useeffect
```

```
Validation
                                                                if (!password) {
import React, { useState, useEffect } from 'react';
                                                                 errors += '\nPassword is required.';
import {
                                                                } else if (password.length < 6) {
  View,
                                                                 errors+= '\nPassword must be at least 6 characters.';
  TextInput,
  TouchableOpacity,
  Text,
                                                                // Set the errors and update form validity
  StyleSheet,
                                                                setErrors(errors);
} from 'react-native';
                                                              }, [name,email,password]);
const App = () => {
  const [name, setName] = useState('');
                                                              return (
  const [email, setEmail] = useState('');
                                                                <View style={styles.container}>
  const [password, setPassword] = useState('');
                                                                  <TextInput
  const [errors, setErrors] = useState({});
                                                                   style={styles.input}
                                                                    placeholder="Name
 useEffect(() => {
   let errors = ''
                                                                   value={name}
                                                                   onChangeText={setName}
     // Validate name field
                                                                  <TextInput
    if (!name) {
  errors += '\nName is required.';
                                                                    style={styles.input}
                                                                    placeholder="Email"
                                                                    value={email}
    // Validate email field
                                                                    onChangeText={setEmail}
    if (!email) {
      errors+= '\nEmail is required.';
                                                                  <TextInput
    } else if (!/\S+@\S+\.\S+/.test(email)) {
                                                                    style={styles.input}
      errors+= '\nEmail is invalid.';
                                                                    placeholder="Password"
```

```
Validation
                                                                   borderColor: '#ccc',
                                                                   borderWidth: 1,
                                                                   marginBottom: 12,
        placeholder="Password"
                                                                   paddingHorizontal: 10,
        value={password}
                                                                   borderRadius: 8,
        onChangeText={setPassword}
                                                                   fontSize: 16,
        secureTextEntry
                                                                 },
                                                                 button: {
      <TouchableOpacity
                                                                   backgroundColor: 'green',
       style={styles.button}>
        <Text style={styles.buttonText}>Submit</Text>
                                                                   borderRadius: 8,
      </TouchableOpacity>
                                                                   paddingVertical: 10,
      <Text style={styles.error}>{errors.toString()}</Text>
                                                                   alignItems: 'center',
    </View>
                                                                   marginTop: 16,
  );
                                                                  marginBottom: 12,
};
                                                                 },
                                                                 buttonText: {
// Styles for the components
                                                                   color: '#fff',
const styles = StyleSheet.create({
                                                                   fontWeight: 'bold',
  container: {
                                                                   fontSize: 16,
    flex: 1,
    padding: 16,
    justifyContent: 'center',
                                                                 error: {
                                                                  color: 'red',
  input: {
                                                                   fontSize: 20,
    height: 60,
                                                                  marginBottom: 12,
    borderColor: '#ccc',
    borderWidth: 1,
                                                               });
    marginBottom: 12,
    paddingHorizontal: 10,
                                                               export default App;
    borderRadius: 8,
```



```
Validation
  import React, { useState } from 'react';
import { View, Text, TextInput, Button, StyleSheet } from 'react-native';
                                                                                                  const styles = StyleSheet.create({
                                                                                                    container: {
const ValidationExample = () => {
  const [email, setEmail] = useState('');
  const [isValid, setIsValid] = useState(true);
                                                                                                      flex: 1,
                                                                                                       justifyContent: 'center',
                                                                                                      alignItems: 'center',
    const validateEmail = () => {
      // Simple email validation with a regular expression
const emailRegex = /\S+@\S+\.\S+/;
const valid = emailRegex.test(email);
                                                                                                      width: 200,
                                                                                                       borderColor: 'gray',
      setIsValid(valid);
                                                                                                       borderWidth: 1,
                                                                                                      padding: 10,
                                                                                                      marginBottom: 10,
    return (
      <View style={styles.container}>
  <Text>Email Address:</Text>
                                                                                                    errorText: {
         <TextInput
                                                                                                      color: 'red',
          style={styles.input}
                                                                                                    },
           value={email}
                                                                                                  });
          onChangeText={(text) => setEmail(text)}
          onBlur={validateEmail}
                                                                                                  export default ValidationExample;
        {!isValid && <Text style={styles.errorText}>Invalid email address</Text>}
         <Button title="Submit" onPress={() => validateEmail()} />
      </View>
    );
```



