

React Context | Part 2 | Cheat Sheet

Concepts in Focus

- Provider
 - Syntax
- Context Flow For Windows App
- Best Practice
- Final Code

1. Provider

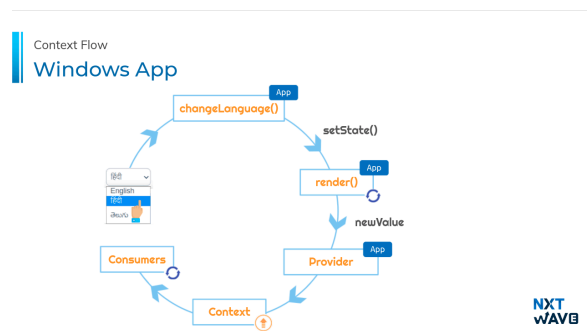
- **Provider** Component updates the value of Context.
- When the provider updates context, all the nested consumers of that provider will be **re-rendered**.
- Updated context value can only be accessed by the consumers nested within the provider.

JSX

```
1 <ContextObject.Provider value={/* some value */}>
2   ...
3 </ContextObject.Provider/>
```

To update context value, we have to pass it as a prop to the **Provider** component.

2. Context Flow For Windows App



3. Best Practice

- The context value should have the data which the consumers need.
- It should also contain the **required methods** to update that data.

4.Final Code

File: src/App.js

JSX

```
1 import {Component} from 'react'
2
3 import Header from './components/Header'
4 import LandingSection from './components/LandingSection'
5 import FeaturesSection from './components/FeaturesSection'
6
7 import LanguageContext from './context/LanguageContext'
8
9 import './App.css'
10
11 class App extends Component {
12   state = {activeLanguage: 'EN'}
13
14   changeLanguage = activeLanguage => {
15     this.setState({activeLanguage})
16   }
17
18   render() {
19     const {activeLanguage} = this.state
20     return (
21       <LanguageContext.Provider
22         value={{activeLanguage, changeLanguage: this.changeLanguage}}
23       >
24         <Header />
25         <LandingSection />
26         <FeaturesSection />
27       </LanguageContext.Provider>
28     )
29   }
30 }
31
32 export default App
```

Collapse ^

File: src/context/LanguageContext.jsx

JSX

```
1 import React from 'react'
2
3 const LanguageContext = React.createContext({
4   activeLanguage: 'EN',
5   changeLanguage: () => {},
6 })
7
8 export default LanguageContext
```

File: src/components/FeaturesSection/index.js

JSX

```
1 import PropTypes from ' /PropTypes'
```

```
1 import Playtime from '../Playtime'
2 import NewWaysToConnect from '../NewWaysToConnect'
3
4 import './index.css'
5
6 const FeaturesSection = () => (
7   <div className="features-section-container">
8     <Playtime />
9     <NewWaysToConnect />
10   </div>
11 )
12
13 export default FeaturesSection
```

Collapse ^

File: src/components/Header/index.js

JSX

```
1 import LanguageContext from '../../../context/LanguageContext'
2
3 import './index.css'
4
5 const langOptions = [
6   {id: 1, value: 'EN', language: 'English'},
7   {id: 2, value: 'HI', language: 'हिंदी'},
8   {id: 3, value: 'TE', language: 'తెలుగు'},
9 ]
10
11 const Header = () => (
12   <LanguageContext.Consumer>
13     {value => {
14       const {activeLanguage, changeLanguage} = value
15       const onChangeLanguage = event => {
16         changeLanguage(event.target.value)
17       }
18
19       return (
20         <nav className="nav-header">
21           
26           <select
27             className="language-dropdown"
28             value={activeLanguage}
29             onChange={onChangeLanguage}
30           >
31             {langOptions.map(eachOption => (
32               <option key={eachOption.id} value={eachOption.value}>
33                 {eachOption.language}
34               </option>
35             ))}
36           </select>
37         </nav>
38       )
39     }}
40   </LanguageContext.Consumer>
41 )
42
43 export default Header
```

Collapse ^

File: src/components/LandingSection/index.js

JSX

```
1 import LanguageContext from '../../../context/LanguageContext'
2
3 import './index.css'
4
5 const landingSectionContent = {
6   EN: {
7     heading: 'Windows 11',
8     description:
9       'Windows 11 provides a calm and creative space where you can pursue yo
10   },
11   UT: {
```

Expand

File: src/components/NewWaysToConnect/index.js

JSX

```
1 import LanguageContext from '../../../context/LanguageContext'
2
3 import './index.css'
4
5 const newWaysToConnectContent = {
6   EN: {
7     heading: 'New ways to connect',
8     description:
9       'Connect instantly to the people you care about right from your desktop
10   },
11   HI: {
12     heading: 'कनेक्ट करने के नए तरीके',
13     description:
14       'माइक्रोसॉफ्ट टीमों के साथ सीधे अपने डेस्कटॉप से ..उन लोगों से तुरंत कनेक्ट हों जिनकी अ
15   },
16   TE: {
17     heading: 'కనెక్ట్ చేయడానికి కొత్త మార్గాలు',
18     description:
19       'మైక్రోసాఫ్ట్ బృందాలతో మీ డెస్క్ టాప్ నుండి మీరు శ్రద్ధ వహించే వ్యక్తులతో తక్షణం
20   },
21 }
22
23 const NewWaysToConnect = () => {
24   const getNewWaysToConnectData = activeLanguage => {
25     switch (activeLanguage) {
26       case 'EN':
27         return newWaysToConnectContent.EN
28       case 'HI':
29         return newWaysToConnectContent.HI
30       case 'TE':
31         return newWaysToConnectContent.TE
32       default:
33         return null
34     }
35   }
36   return (
37     <LanguageContext.Consumer>
38     {value => {
39       const {activeLanguage} = value
40       const {heading, description} = getNewWaysToConnectData(activeLanguage)
41       return (
42         <div className="new-ways-to-connect-container">
43           <h1 className="new-ways-to-content-heading">{heading}</h1>
44           <p className="new-ways-to-content-description">{description}</p>
45         </div>
46       )
47     }}
48     </LanguageContext.Consumer>
49   )
50 }
51
52 export default NewWaysToConnect
```

Collapse

File: src/components/Playtime/index.js

JSX

```
1 import LanguageContext from '../../../context/LanguageContext'
2
3 import './index.css'
4
5 const playtimeContent = {
6   EN: {
7     heading: 'Playtime. Anytime',
8     description:
9       'Windows takes gaming to a whole new level with graphic capabilities tha
10   },
11   HI: {
12     heading: 'विश्राम का समय। किसी भी समय',
13     description:
14       'विंडोज़ गेमिंग को ग्राफिक क्षमताओं के साथ एक नए स्तर पर ले जाता है जो वास्तविकता को
```

```

15   },
16   TE: {
17     heading: 'ఆడూకునే సమయం. ఎప్పుడైనా',
18     description:
19       'రియాలిటీకి ప్రత్యర్థిగా ఉండే గ్రాఫిక్ సామర్థ్యాలతో విండోస్ గేమింగ్ ను సరికొత్త స్థాయి!
20   },
21 }
22
23 const Playtime = () => {
24   const getPlaytimeData = activeLanguage => {
25     switch (activeLanguage) {
26       case 'EN':
27         return playtimeContent.EN
28       case 'HI':
29         return playtimeContent.HI
30       case 'TE':
31         return playtimeContent.TE
32       default:
33         return null
34     }
35   }
36   return (
37     <LanguageContext.Consumer>
38     {value => {
39       const {activeLanguage} = value
40       const {heading, description} = getPlaytimeData(activeLanguage)
41       return (
42         <div className="playtime-container">
43           <h1 className="playtime-heading">{heading}</h1>
44           <div className="playtime-description-container">
45             <p className="playtime-description">{description}</p>
46             
51           </div>
52         </div>
53       )
54     }}
55   </LanguageContext.Consumer>
56 )
57 }
58
59 export default Playtime

```

Collapse ^

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