

# Authentication and Session

Course Code: CSC 4182    Course Title: Advanced Programming In Web Technologies



**Dept. of Computer Science**  
**Faculty of Science and Technology**

<b>Lecture No:</b>	<b>1</b>	<b>Week No:</b>	<b>14</b>	<b>Semester:</b>	
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# Lecture Outline



- ✓ Tailwind CSS
- ✓ Key Features of Tailwind
- ✓ Installation
- ✓ Configure Project
- ✓ Using TailWind
- ✓ Tailwind Documentation
- ✓ Tailwind Resources

# NestJs Cookie Configuration



- Cookies are small pieces of data that are stored on the client-side (typically in the user's browser) and are often used for session management, user authentication, and other data storage purposes.

cookie:

```
{ secure: false,  
  httpOnly: false,  
  maxAge: 10000  
}
```

# NestJs Cookie Configuration



- **Secure:** This option determines whether the cookie **should only** be sent over **secure connections (HTTPS)**. When set to false, the cookie can also be sent over non-secure (HTTP) connections.
- **httpOnly:** When this option is set to **true**, the cookie is **inaccessible** to JavaScript running in the browser.
- **maxAge:** This option specifies the maximum age of the cookie in milliseconds.

# Cross-Origin Resource Sharing



- CORS (Cross-Origin Resource Sharing) is a **security** feature implemented by web browsers that controls whether a web page running at one origin (domain) is **allowed to request resources from a server at a different origin** (domain).

```
app.enableCors({  
  origin: true,  
  methods: 'GET,HEAD,PUT,PATCH,POST,DELETE,OPTIONS',  
  credentials: true,  
});
```

# Cross-Origin Resource Sharing



**Origin:** This specifies the allowed origins for cross-origin requests. The **true** value here means that any origin is allowed to make requests to the server.

**Methods:** This specifies the HTTP methods that are allowed in the cross-origin requests. In the provided code, it allows the common HTTP methods like GET, HEAD, PUT, PATCH, POST, DELETE, and OPTIONS.

**Credentials:** This indicates whether the server should include any cookies, HTTP authentication, or client-side SSL certificates in cross-origin requests. When set to true, it means that the browser's cross-origin request includes credentials (like cookies) in the request.

# Axios withCredentials Option



- **withCredentials** option is used to control whether the browser should send cookies or HTTP authentication along with cross-origin requests.
- When withCredentials is set to **false (the default)**, Axios **will not send cookies** or authentication headers with cross-origin requests.
- When withCredentials is set to **true**, Axios will **include** cookies and authentication headers in cross-origin requests.

```
const response = await axios.post(process.env.NEXT_PUBLIC_API_ENDPOINT + '/admin/signin/',  
{  
  email,  
  password,  
},  
{  
  headers: { 'Content-Type': 'application/x-www-form-urlencoded' },  
  withCredentials: true  
}  
);
```

# useContext



**useContext** hook is part of the React Hooks API and is used for **consuming values from the React context**. Context provides a way to **pass data through the component tree** without having to pass props down manually at every level.

**Context.Provider** component work together with **useContext** to provide a way to **share state or data across components without having to pass props manually** through each level of the component tree.



# useContext



```
// MyContext.js
import React, { createContext, useContext } from 'react';

// Create a context
const MyContext = createContext();

// Create a provider component
const MyProvider = ({ children }) => {
  const sharedData = 'Hello from Context';

  return <MyContext.Provider
value={sharedData}>{children}</MyContext.Provider>;
};

// Custom hook to consume the context
const useMyContext = () => useContext(MyContext);

export { MyProvider, useMyContext };
```

# useContext



```
// _app.js
import React from 'react';
import { MyProvider } from './MyContext';

function MyApp({ Component, pageProps }) {
  return (
    <MyProvider>
      <Component {...pageProps} />
    </MyProvider>
  );
}

export default MyApp;
```

# useContext



```
// AnyComponent.js
import React from 'react';
import { useMyContext } from './MyContext';

function AnyComponent() {
  const sharedData = useMyContext();

  return <p>{sharedData}</p>;
}

export default AnyComponent;
```



# References

1. W3Schools Online Web Tutorials, URL: <http://www.w3schools.com>
2. Next.js, URL: <https://nextjs.org/>
3. Mozilla Developer Networks, URL: <https://developer.mozilla.org/>



Thank You!