

Program Systems Development practice

Practice 11 Angular 2 - Auth Guard Local- & SessionStorage





Auth Guards

- Also known as Route Guards
- Interfaces that can tell the router whether it should allow navigation to a requested route
- You can protect routes from unauthorized requests

They need a boolean (true/false) return value from a class that implements an interface

Guard Types

- CanActivate (this is the most important for us)
 - to mediate navigation to a route.
- CanActivateChild
 - to mediate navigation to a child route.
- CanDeactivate
 - to mediate navigation *away* from the current route.
- CanLoad

to mediate navigation to a feature module loaded asynchronously.

Resolve

to perform route data retrieval before route activation.

CanActivate

- Mainly used for handling authentication on the client side and protect routes.
- You have to extend the route definition that you would like to protect.
 - [path: 'about', component: AboutComponent, canActivate: [AuthService]}

In this example the AboutComponent that can be accessed by using /about, it is protected by the strategy of AuthService

CanActivate

- After the extension of route definition, you have to implement the interface
 - @Injectable()
 - export class AuthService implements CanActivate{
 public canActivate():
 - Observable<boolean>|Promise<boolean>|boolean {

return ...

Local Storage

- It is a built-in storage of a browser.
- All of the major browser support it.
- It stores the data by key-value pairs.
- It can be easily accessed from Angular source code.

localStorage.setItem(key, value);The stored data has no expiration date.

Session Storage

- It is a built-in storage of a browser.
- > All of the major browser support it.
- It stores the data by key-value pairs.
- It can be easily accessed from Angular source code.
 - sessionStorage.setItem(key, value);
- The content of the storage is cleared when the page session ends.
 - Opening a page in a new tab or window, creates a new session.

Local Storage vs. Session Storage

- Storage limit of Local Storage is higher than the one of Session Storage.
- Local Storage does not work with expiration date, but Session Storage does.

In Session Storage the data is stored only for a session (until the browser (or tab) is closed.)