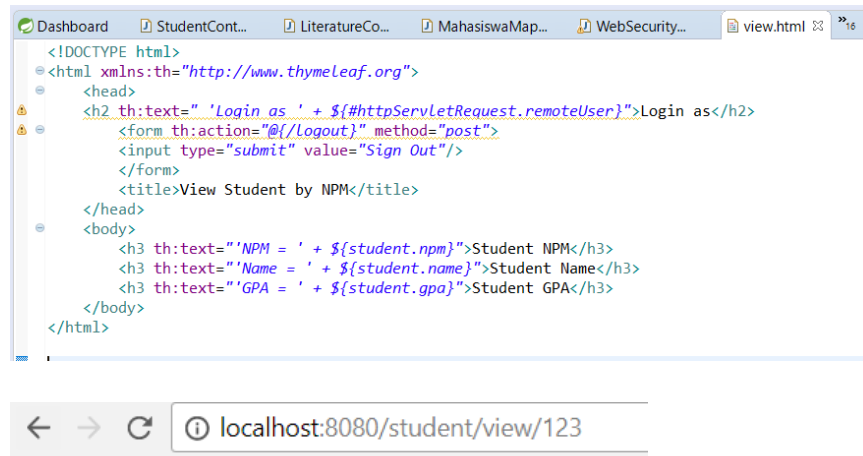


1. Pada Tutorial kali ini kami belajar security terkait hak akses menggunakan fitur login yang terdiri atas Admin dan User.

2. Latihan tambahkan Sign Out pada halaman View

Pada source code :



```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<h2 th:text="'Login as ' + ${#httpServletRequest.remoteUser}">Login as</h2>
<form th:action="@{/Logout}" method="post">
<input type="submit" value="Sign Out"/>
</form>
<title>View Student by NPM</title>
</head>
<body>
<h3 th:text="'NPM = ' + ${student.npm}">Student NPM</h3>
<h3 th:text="'Name = ' + ${student.name}">Student Name</h3>
<h3 th:text="'GPA = ' + ${student.gpa}">Student GPA</h3>
</body>
</html>
```

Login as admin

Sign Out

NPM = 123

Name = Yogine

GPA = 3.5

3. Membuat User baru dengan id pass USER

Pada source code :

```
@Autowired
public void configureGlobal(AuthenticationManagerBuilder auth) throws Exception {
    auth.inMemoryAuthentication()
        .withUser("admin").password("{noop}admin")
        .roles("ADMIN");
    auth.inMemoryAuthentication()
        .withUser("user").password("{noop}user")
        .roles("USER");
}
```

← → ↻ localhost:8080/student/viewall

Login as user

Sign Out

Navbar Home Daftar Mahasiswa Menambah Mahasiswa

All Students

No.	NPM	Name	GPA
1	123	Yogine	3.5
2	2	Adjie	2.2

Mata Kuliah APAP

4. Memanfaatkan Role bila login USER maka tidak bias melihat student dengan NPM tertentu

Pada source code :

```
protected void configure(HttpSecurity http) throws Exception{  
  
    http  
        .authorizeRequests()  
        .antMatchers("/").permitAll()  
        .antMatchers("/student/viewall").hasRole("ADMIN")  
        .antMatchers("/student/**").hasRole("USER")  
        .anyRequest().authenticated()  
        .and()  
        .formLogin()  
        .loginPage("/login")  
        .permitAll()  
        .and()  
        .logout()  
        .permitAll();  
}
```

Login as USER



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Sat Apr 28 21:32:42 ICT 2018

There was an unexpected error (type=Forbidden, status=403).

Forbidden

5. Latihan menambahkan field search by NPM pada halaman index

```
<h4>View Student By NPM</h4>
<form th:action="@{/student/view/}" method="post" th:object="${student}">
<div class="input-group mb-3 col-md-2">
  <input type="text" name="npm" class="form-control form-control-sm" placeholder="NPM" aria-label="NPM" aria-describedby="basic-addon2"/>
  <div class="input-group-append">
    <button class="btn btn-outline-success btn-sm" type="submit">Cari</button>
  </div>
</div>
```

6. Tambahkan agar Admin dapat melihat Viewall & View by NPM

```
http
.authorizeRequests()
.antMatchers("/").permitAll()
.antMatchers("/student/viewall").hasRole("ADMIN")
.antMatchers("/student/view/**").hasAnyRole("ADMIN", "USER")
.anyRequest().authenticated()
.and()
```