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## APAP TUTORIAL 8

Tutorial 8 mempelajari bagaimana websecurity di Spring boot. Implementasinya juga cukup mudah hanya butuh file config yang mengatur semua terkait websecurity mulai misal permission. Dan sedikit penyesuaian di bagian view saja.

Latihan :

1. Menambahkan tombol Sign Out dan cetak nama user untuk halaman student/view/{npm} ditambahkan pada halaman studentview.

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

2. Menambah user dan role baru ditambahkan di WebSecurityConfig.java

```
@Autowired
public void configureGlobal (AuthenticationManagerBuilder auth) throws Exception
{
    auth.inMemoryAuthentication()
        .withUser( username: "admin").password("admin")
        .roles("ADMIN");

    auth.inMemoryAuthentication()
        .withUser( username: "user").password("user")
        .roles("USER");
}
```

3. Menampilkan menu view student dan form untuk mencari berdasarkan npm ditambahkan pada halaman view index.

```
<a href="/login" >Login</a>  
<a th:if="${#httpServletRequest.isUserInRole('ADMIN')}" href="/student/viewall">View All Student</a><br>  
<a th:if="${#httpServletRequest.isUserInRole('USER')} or ${#httpServletRequest.isUserInRole('ADMIN')}">  
    <form action="/student/view" method="get">  
        <input type="text" name="npm"/>  
        <button type="submit">Search</button>  
    </form>  
</a>
```

4. Membuat user ADMIN adar dapat melihat menu viewall student dan view student by npm.

```
<a href="/login" >Login</a>  
<a th:if="${#httpServletRequest.isUserInRole('ADMIN')}" href="/student/viewall">View All Student</a><br>  
<a th:if="${#httpServletRequest.isUserInRole('USER')} or ${#httpServletRequest.isUserInRole('ADMIN')}">  
    <form action="/student/view" method="get">  
        <input type="text" name="npm"/>  
        <button type="submit">Search</button>  
    </form>  
</a>
```