

## Latihan

1. Menambahkan dan cetak nama user untuk halaman student/view/{npm}

Tampilan di codingan:

```
<h2 th:text="'Login as ' + ${#httpServletRequest.remoteUser}">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>
```

Tampilan view:

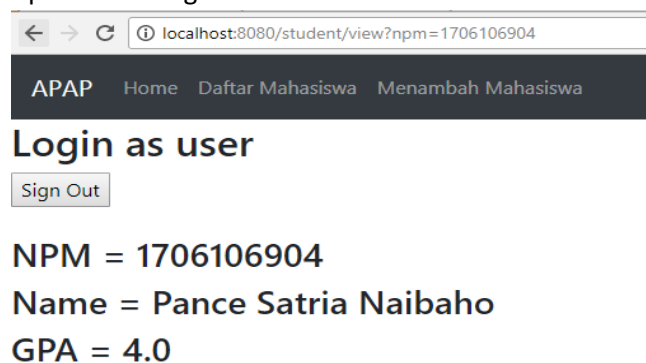


2. Membuat user baru dengan username "user", password "user", dan role "user".

Tampilan codingan:

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

Apakah bisa login? Bisa



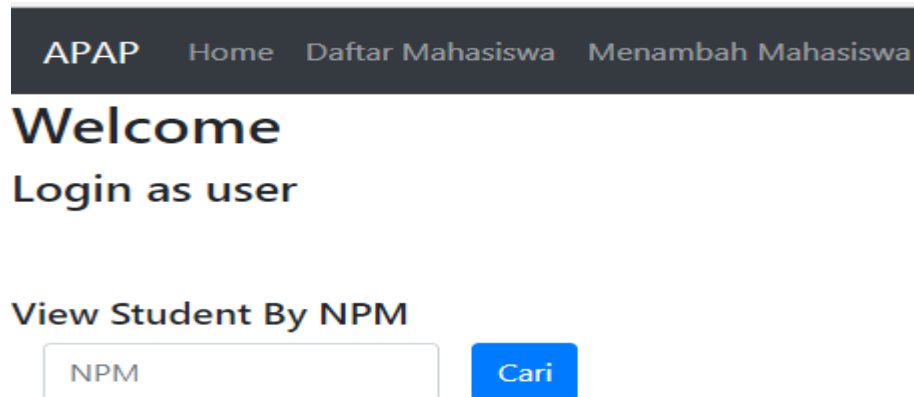
3. Menampilkan menu view student by npm beserta input field dan button untuk memasukan nomor npm student yang ingin dicari pada halaman index user dengan role USER.

Code:

```
<div th:if="${#httpServletRequest.isUserInRole('USER')}">

    <form class="form-inline" th:action="@{/student/view}" method="get">
        <div class="form-group mx-sm-3 mb-2">
            <input
                type="text" class="form-control" id="npm" name="npm"
                placeholder="NPM"/>
        </div>
        <button type="submit" class="btn btn-primary mb-2">Cari</button>
    </form>
</div>
```

Hasil:



4. Membuat agar user dengan role ADMIN dapat melihat view all student dan view student by npm juga.

Code:

Pada class WebSecurityConfig:

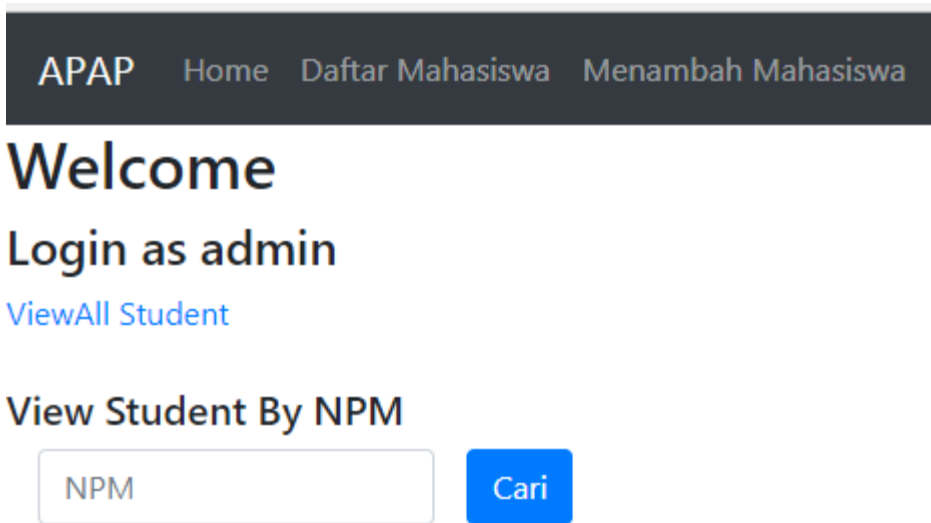
```
.antMatchers("/student/view/**").hasRole("ADMIN")
```

Pada index.html:

```
<a th:if="${#httpServletRequest.isUserInRole('ADMIN')}"
    href="/student/viewall">ViewAll Student</a>
<br/><br/>
<h5>View Student By NPM</h5>
<div th:if="${#httpServletRequest.isUserInRole('ADMIN')}">

    <form class="form-inline" th:action="@{/student/view}" method="get">
        <div class="form-group mx-sm-3 mb-2">
            <input
                type="text" class="form-control" id="npm" name="npm"
                placeholder="NPM"/>
        </div>
        <button type="submit" class="btn btn-primary mb-2">Cari</button>
    </form>
</div>
```

Hasil:



The screenshot displays a web application interface. At the top, there is a dark navigation bar with the text 'APAP' and three links: 'Home', 'Daftar Mahasiswa', and 'Menambah Mahasiswa'. Below the navigation bar, the word 'Welcome' is prominently displayed in a large, bold, black font. Underneath 'Welcome', the text 'Login as admin' is shown in a smaller black font, followed by a blue link labeled 'ViewAll Student'. Further down, the heading 'View Student By NPM' is present. Below this heading is a search form consisting of a light gray input field with the placeholder text 'NPM' and a blue button labeled 'Cari' (Search).

**Hasil Pembelajaran:**

Pada tutorial ini saya mempelajari bagaimana mengimplementasikan otentikasi dan otorisasi sederhana menggunakan dependency Spring Boot Starter Security.