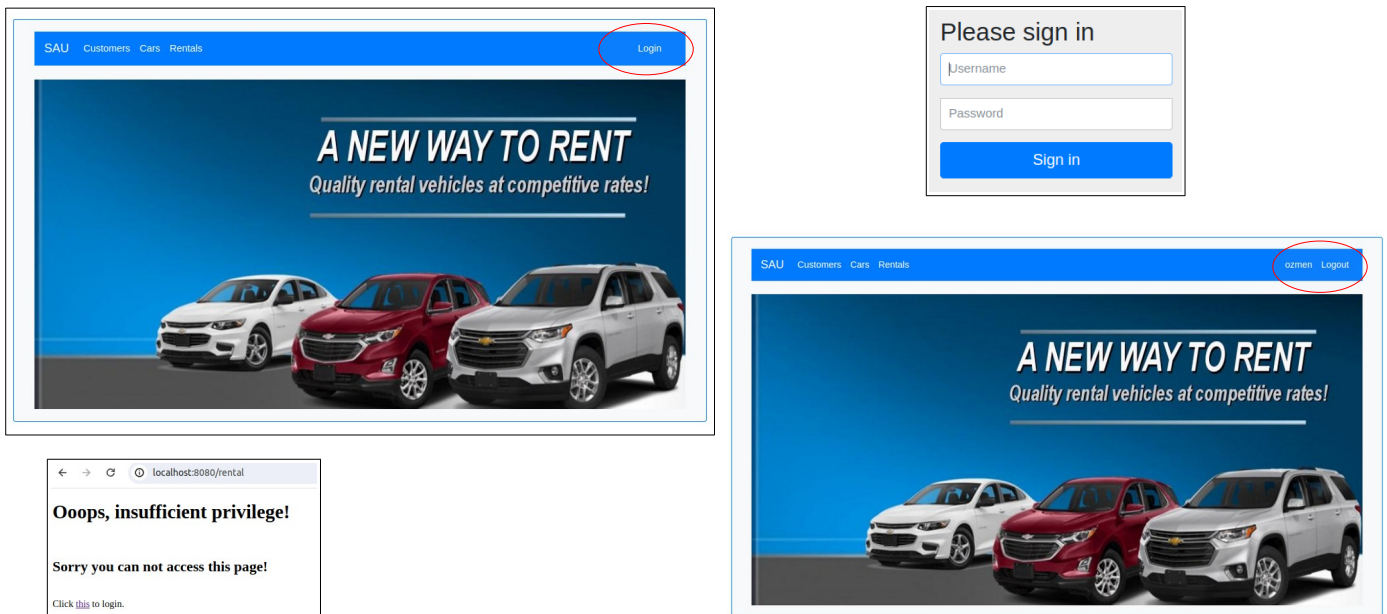


## SWE 212 PROJECT STUDY 3 (2024)

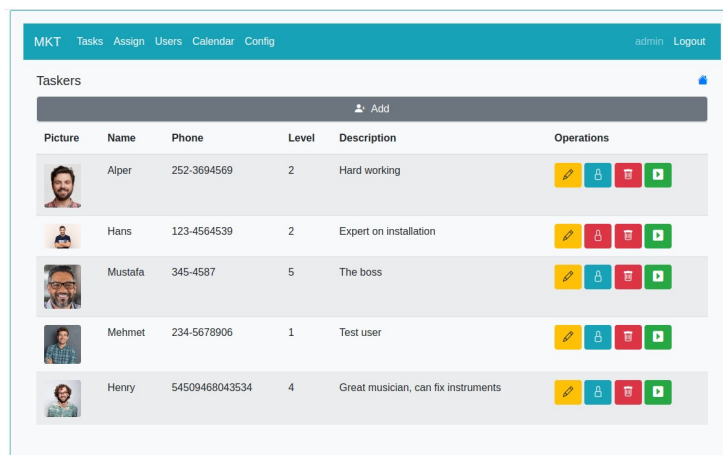
**Due date:** 21 May 2024, class time.

In this project you will add JWT (JSON Web Token) authentication to previous project (Project 2). However, this time you must use Gradle-Groovy as a build tool. Figure 1. shows some example views related authentication from car-rental project.

At least there must be 2 roles in your application such as “user” and “admin”. You should decide which user should access to which resources (pages, images and documents). Your application must allow to upload user images as well (see Figure 2). Show that you can adjust token expire time.



**Figure 1:** Example login and home views for car-rental project. Some pages, such as rental here only “Admin” role have access, if a normal user role tries to access this page, he/she must be informed and forwarded to login page.



**Figure 2.** Example user page with profile images from Tasker application.

**Grading:**

No	Task	Grade
1	Project 2 is ready as a base.	10
2	Authentication is working.	20
3	Security filter chain is working (roles and resources) .	20
4	Image upload is working.	20
5	Bootstrap is used.	20
6	Everything works as described with no error, exceptions handled properly.	10

**PS:** Group presentation is required, group members must show up to in presentation to collect points.