8.3D: Authorisation and Spring security

- I was provided with a more elaborate type of an exam creation application for a website to fill for this task. Before making those changes, my goal was to ensure that the users could from the home page get to the webpage without typing in their login details. On the main page there was supposed to be a login button pointing to the login page and a page that can only be opened after login.
- 1. First of all, I allowed anonymous users to view home page for all users, without modifications in the Spring Security config file. I went on the filter as an example and checked the access control option for the ExamGenSpringSecurityConfig class. In other words, I came up with a policy whereby anyone could be allowed to get the home page route or "/home" even if they are not logged in. It was possible to find the place of the unauthorized access and the updating process needed the HomeController had to be updated at such a rate.

```
nut*.infloweryWathsetLoation()
.withGuer(user.username':Student").posSwerd("stodent").noles("SIBERT")
.withGuer(user.username':Student").posSwerd("stodent").noles("LOTSFER"))
.withGuer(user.username("subin").possword("admin").roles("AUTHFIL))
- In-jens
   + Ch Hibi
       - in dealing
           w an218
                                                                               protected void coofigure/HttpSecurity http) throws Exception (
                  · in config
                                                                                                  // Allow across to the home gage without outhoritistion
(antMatchers!"/").permitAll!)
                      IR Examiner for Four Ingel VC Continue
                                                                                                   / Other gages require authors 
anyRequest([.authenticated])
                                                                                                                                               tication
                        ■ ExamGerSpringMVCInitialize
                   de controller
                       III AdminController rass
                        # ExamGenController.iava
                                                                                          _and()
_logout()_permitAll()
                        III HomeController.lovia
                        II LognController Java
                                                                                                   exceptionMandling().accessDeriesPage("/access-denies");
                       ill GuestionAnswerController Ja
                                                                                    // Limit sessions to a maximum of 2 at a time
Pitty .commissManagement() .maximumSeculors(2);
   + IN WEB-INF
```

2. I also proceeded and embedded the login button on one of the pages of the software. Actually, this button was supposed to provide a way to sign in so that the users could get to the parts of the app that they would normally cannot access. I placed the button on the right location of the home page of the view found in the application. I then set the button behavior to take the users to the /login page every time they click on the button.

```
Project Explorer X
                                                                                                              ** D // ExamGenSpringSecurityConfig.lava // HomeController.lava // plain-login.jsp // home.jsp x
                                                                            医每牙目 18
                                                                                                                                                                                              margin-top:25or;
                                                    + > exampeneration
                                                                                                                                                                                p {
    margin-left:100px;
    margin-bottom: 10px;
                                                           + in config
                                                                        ☐ ExamGerSpringMV
                                                                        ☐ ExamGenSpringMV 22

    ExamGenSpringSec 23

                                                                        ili ExamGenSpringSec 24
24 ExamGenSpringSec 25
controller 25
ili AdminController.jar 28
                                                               a controller
                                                                                                                                                                 @ ExamGenController 29
                                                                        # HomeController.jax 11 W/form: form
                                                                        © QuestionArowerCo 11 < heath 
30 < heath 
30 < heath 
30 < heath 
31 < heath 
32 < heath 
33 < heath 
34 < heath 
35 < heath 
36 < heath 
37 < heath 
38 < heath
                                                                                                                                                                      -p-This is the exam generation app where students can take practice exams and lecturers can generate new exams. -/p-
                               + @ WEB-INF
                                                                                                                                                                     Please login before you start.
                                     + in view
                                                                                                                                                                    @ access-denied.jsp
                                                  ili admin.jsp
                                                  ill examgen jap
                                                  ill fancy-login.jsp
```

3. Yes I was fully aware about my duty of redirecting the users to the post-login.jsp after completing login. I modified the security filters and HomeController to redirect the way and address the problem as it directs the users to the post-login page whenever they log in.

```
package edu.deakin.sit218.examgemeration.controller;
- Bjava
                                                             lmport org.springframework.stereotype.Controller:[]
  - in edu
    - deakin
                                                               public class HomeController (
       + 85 sk218
          + prexampeneration
                 ExamGenSpringMVCInitiatizer.java
                                                                    // Mapping for post-login page
goorthapping("/nome")
public String showPostLoginPage() {
    return "post-login"; // This should correspond to the post-login page view
                 ExamGenSpringSecurityInitialiser.java
             · sontroller
                 AdminController.java
                 ExamGenController.Java

    ☐ HomeController Java

                 If LoginController.java

② QuestionAnswerController Java

≠ 🖨 webapp
  + > WEB-INF
    - Si view
```

4. Once the necessary adjustments have been made, and then rigorously put the application through its paces. I checked the main page logged as an anonymous user in order to see it for anyone with no account in the given forum. It seems like after entering my valid login details after clicking the login button, I looked to see if the application had given me the after login screen. All happened in order, as was expected from original plans.



Welcome to Examgeneration App!!



This is the examgenerate app where students can take some practice exams and lecturers can generate new exams

please login before you start

• In an endeavor to determine whether it took me to the login page I next clicked the login button. Using the credentials of the Student, I then signed in.





Exam Generation App

Exam Generation

Question and Answer

Admin

Lancon