

МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ  
федеральное государственное автономное образовательное учреждение высшего образования  
«САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ АЭРОКОСМИЧЕСКОГО  
ПРИБОРОСТРОЕНИЯ»

ИНСТИТУТ ВЫЧИСЛИТЕЛЬНЫХ СИСТЕМ И ПРОГРАММИРОВАНИЯ

КАФЕДРА компьютерных технологий и программной инженерии

ОТЧЕТ  
ЗАЩИЩЕН С ОЦЕНКОЙ  
ПРЕПОДАВАТЕЛЬ

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должность, уч. степень, звание

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ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ №4

«Разработка формы логина»

по курсу: Технологии разработки серверных информационных систем

РАБОТУ ВЫПОЛНИЛ

СТУДЕНТ ГР. №

4932

06.12.2021

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Санкт-Петербург 2021

## Цель работы

Познакомится с основами написания форм авторизации и защиты ресурсов.

## Задание:

1. Добавьте в приложение поддержку одной из моделей безопасности средствами spring security.
2. Защитите ресурсы, требующие запись и введите аудит.

Вариант: 9. Складской учет.

## Описание разрабатываемого продукта:

### *WebSecurityConfig*

```
package suai.trsis2021.labs.util;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.provisioning.InMemoryUserDetailsManager;

@Configuration
@EnableWebSecurity
public class WebSecurityConfig extends WebSecurityConfigurerAdapter {

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.csrf().disable()

            .authorizeRequests()
                .antMatchers("/", "/home-page").permitAll()
                .antMatchers("/read-pane").hasAnyRole("USER", "ADMIN")
                .antMatchers("/crud-pane").hasRole("ADMIN")
            .and()
                .formLogin()
                    .loginPage("/login")
                    .permitAll()
            .and()
                .logout()
                    .permitAll()
            .and()
                .exceptionHandling().accessDeniedPage("/forbidden-page");
    }

    @Bean
    @Override
    protected UserDetailsService userDetailsService() {
        UserDetails user = User.withDefaultPasswordEncoder()
```

```

        .username("user")
        .password("1")
        .roles("USER")
        .build();

        UserDetails admin = User.withDefaultPasswordEncoder()
            .username("admin")
            .password("1")
            .roles("ADMIN")
            .build();

        return new InMemoryUserDetailsManager(user, admin);
    }
}

```

### HomePage

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3"
      lang="ru">

<head>
    <title>Home</title>
</head>

<div th:include="Logout"></div>

<div>
    <h3>Pages</h3>
    <ul>
        <li>
            <a href="login">Авторизация </a></li>
        <li sec:authorize="hasRole('ADMIN')">
            <a href="crud-pane">Панель администратора</a></li>
        <li sec:authorize="hasAnyRole('USER', 'ADMIN')">
            <a href="read-pane">Панель пользователя </a></li>
    </ul>
</div>

</html>

```

### LoginPage

```

<!DOCTYPE html>
<html lang="ru"
      xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">

<head>
    <meta charset="UTF-8">
    <title>ЛОГИН</title>
</head>

<style>
    div.error{
        color: #000000;
        background-color: rgba(219, 112, 147, 0.67);
    }
</style>

```

```

        text-align: center;
        border-radius: 15px;
    }
    div.logout{
        color: #000000;
        background-color: rgba(152, 251, 152, 0.67);
        text-align: center;
        border-radius: 15px;
    }
</style>

<body>

<div th:include="Logout"></div>
<a href="/" >Home</a>

<div style="
position: absolute;
top: 50%;
left: 50%;
margin-right: -50%;
transform: translate(-50%, -50%);
">
    <div class="error" th:if="{param.error}">
        Неверное имя пользователя или пароль.
    </div>

    <div class="logout" th:if="{param.logout}">
        Вы вышли из учетной записи.
    </div>

    <form th:action="{@{/login}}" method="post">
        <table border="0" cellpadding="5">
            <tr><th align="right"> Имя пользователя :</th> <td>
                <input type="text" name="username"> </td></tr>
            <tr><th align="right"> Пароль : </th> <td>
                <input type="password" name="password"> </td></tr>
            <tr><th> </th> <td align="right" >
                <input type="submit" value="Войти"/> </td></tr>
        </table>
    </form>
</div>

</body>

</html>

```

## Logout

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">

<body>

<form th:action="{@{/logout}}" method="post">
    <div th:if="{#{request.userPrincipal != null}}" th:inline="text">
        Вы вошли как: [{#{HttpServletRequest.remoteUser}}]
    <input type="submit" value="Выйти"/>

```

```
    </div>
</form>
</body>
</html>
```

## Выводы

- .

## Приложение:

```
// @filename \src\main\java\suai\trsis2021\labs\Lab4Application.java
package suai.trsis2021.labs;
```

```
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
public class Lab4Application {
```

```
    public static void main(String[] args) {
        SpringApplication.run(Lab4Application.class, args);
    }
}
```

```
// @filename \src\main\java\suai\trsis2021\labs\controller\RestApiController.java
package suai.trsis2021.labs.controller;
```

```
import com.google.gson.Gson;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import suai.trsis2021.labs.entity.ItemEntity;
import suai.trsis2021.labs.exceptions.ItemNotFoundException;
import suai.trsis2021.labs.service.ItemService;
```

```
import java.util.Arrays;
```

```
@RestController
@RequestMapping("/items")
public class RestApiController {
```

```
    @Autowired
    private ItemService itemService;
    private static final Gson gson = new Gson();

    @PostMapping("add")
    public ResponseEntity<String> addCost(@RequestBody ItemEntity cost){
        try {
            if(itemService.addItem(cost)) {
                return ResponseEntity.status(HttpStatus.CREATED).body(gson.toJson("Item added successfully"));
            }
            throw new ItemNotFoundException(gson.toJson("Item don't found"));
        } catch (ItemNotFoundException e){
            return
            ResponseEntity.status(HttpStatus.NOT_FOUND).body(gson.toJson(e.getMessage()));
        }
    }
}
```

```

    } catch (Exception e){
        e.printStackTrace();
        return
        ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).body("RestApiController error -
> " + e.getMessage() +
        "\n\n" + Arrays.toString(e.getStackTrace()));
    }
}

```

```

@DeleteMapping("delete/{id}")
public ResponseEntity<String> deleteCost(@PathVariable Long id){
    try {
        if (itemService.deleteItem(id)){
            return ResponseEntity.status(HttpStatus.OK).body(gson.toJson("Item delete
successfully"));
        }
        throw new ItemNotFoundException("Item don't found");
    } catch (ItemNotFoundException e){
        return
        ResponseEntity.status(HttpStatus.NOT_FOUND).body(gson.toJson(e.getMessage()));
    } catch (Exception e){
        return
        ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).body(gson.toJson("RestApiCont
roller error"));
    }
}

```

```

@PutMapping("put/{id}")
public ResponseEntity<String> putCost(@RequestBody ItemEntity cost){
    try {
        if(itemService.putItem(cost)) {
            return ResponseEntity.status(HttpStatus.ACCEPTED).body(gson.toJson("Item updated
successfully"));
        }
        throw new ItemNotFoundException(gson.toJson("Item don't found"));
    } catch (ItemNotFoundException e){
        return
        ResponseEntity.status(HttpStatus.NOT_FOUND).body(gson.toJson(e.getMessage()));
    } catch (Exception e){
        return
        ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).body(gson.toJson("RestApiCont
roller error"));
    }
}

```

```

@GetMapping("get/all")
public ResponseEntity<Object> getCostList(){
    try {
        return ResponseEntity.status(HttpStatus.OK).body(itemService.getItems());
    }
}

```

```

        }catch (Exception e){
            return
            ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).body(gson.toJson("RestApiCont
roller error"));
        }
    }

    @GetMapping("get/{id}")
    public ResponseEntity<String> getCost(@PathVariable Long id){
        try {
            return
            ResponseEntity.status(HttpStatus.FOUND).body(gson.toJson(itemService.getItem(id)));
        }catch (ItemNotFoundException e){
            return
            ResponseEntity.status(HttpStatus.NOT_FOUND).body(gson.toJson(e.getMessage()));
        }catch (Exception e){
            return
            ResponseEntity.status(HttpStatus.INTERNAL_SERVER_ERROR).body("RestApiController
error");
        }
    }
}

```

```

// @filename \src\main\java\suai\trsis2021\labs\controller\WebController.java
package suai.trsis2021.labs.controller;

```

```

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.view.RedirectView;

```

```

@Controller
public class WebController {

    @GetMapping("")
    public RedirectView redirect(){
        return new RedirectView("/home");
    }

    @RequestMapping("/login")
    public String login(){
        return "LoginPage";
    }

    @GetMapping("/home")
    public String homePage() {
        return "HomePage";
    }
}

```



```

    @GetMapping("/crud-pane")
    public String getAdminPage(){
        return "CrudPane";
    }

    @GetMapping("/read-pane")
    public String getReadPage() {
        return "ReadPane";
    }

    @GetMapping("/forbidden-page")
    public String getForbiddenPage() {
        return "ForbiddenPage";
    }
}

// @filename \src\main\java\suai\trsis2021\labs\entity\ItemEntity.java
package suai.trsis2021.labs.entity;

import lombok.*;

import javax.persistence.*;
import java.time.LocalDate;

@Table(schema = "trsis_tessier")
@Entity(name = "item")
public class ItemEntity {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Getter @Setter private Long id;
    @Getter @Setter private String section;
    @Getter @Setter private String name;
    @Getter @Setter private Integer count;

    @Column(name = "date_add")
    @Getter @Setter private LocalDate dateAdd;
    @Column(name = "storage_time")
    @Getter @Setter private Integer storageTime;
    @Column(name = "storage_price")
    @Getter @Setter private Integer storagePrice;

    public ItemEntity() {
        count = 1;
    }

    public void countUp(){

```

```

        count += 1;
    }

    public void countDown(){
        count -= 1;
    }
}

```

```

// @filename \src\main\java\suai\trsis2021\labs\exceptions\ItemNotFoundException.java
package suai.trsis2021.labs.exceptions;

```

```

public class ItemNotFoundException extends Exception{
    public ItemNotFoundException(String message) {
        super(message);
    }
}

```

```

// @filename \src\main\java\suai\trsis2021\labs\model\Item.java
package suai.trsis2021.labs.model;

```

```

import lombok.*;
import suai.trsis2021.labs.entity.ItemEntity;

```

```

import java.time.LocalDate;

```

```

public class Item {

    public static Item toModel(ItemEntity entity){
        Item item = new Item();

        item.setId(entity.getId());
        item.setSection(entity.getSection());
        item.setName(entity.getName());
        item.setDateAdd(entity.getDateAdd());
        item.setStorageTime(entity.getStorageTime());
        item.setStoragePrice(entity.getStoragePrice());
        item.setCount(entity.getCount());

        return item;
    }
}

```

```

@Getter @Setter private Long id;
@Getter @Setter private String section;
@Getter @Setter private String name;
@Getter @Setter private LocalDate dateAdd;
@Getter @Setter private Integer storageTime;
@Getter @Setter private Integer storagePrice;

```

```

@Getter @Setter private Integer count;

public Item() {
    count = 1;
}

public void countUp(){
    count += 1;
}

public void countDown(){
    count -= 1;
}
}

// @filename \src\main\java\suai\trsis2021\labs\repository\ItemRepository.java
package suai.trsis2021.labs.repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Modifying;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;
import suai.trsis2021.labs.entity.ItemEntity;

import java.time.LocalDate;
import java.util.List;
import java.util.Optional;

@Repository
public interface ItemRepository extends JpaRepository<ItemEntity, Long> {

    @Modifying
    @Query("update item i " +
        "set i.section = ?1, " +
        "    i.name = ?2," +
        "    i.dateAdd = ?3," +
        "    i.storageTime = ?4," +
        "    i.storagePrice = ?5," +
        "    i.count = ?6 " +
        "where i.id = ?7")
    void updateCostById(
        String section,
        String name,
        LocalDate dateAdd,
        Integer storageTime,
        Integer storagePrice,
        Integer count,

```

```

        Long id
    );

    List<ItemEntity> findByName(String name);
    Optional<ItemEntity> findById(Long id);
}

// @filename \src\main\java\suai\trsis2021\labs\service\ItemService.java
package suai.trsis2021.labs.service;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;
import suai.trsis2021.labs.entity.ItemEntity;
import suai.trsis2021.labs.exceptions.ItemNotFoundException;
import suai.trsis2021.labs.model.Item;
import suai.trsis2021.labs.repository.ItemRepository;

import java.util.LinkedList;
import java.util.List;
import java.util.Optional;

@Service
@Transactional
public class ItemService {

    @Autowired
    private ItemRepository itemRepository;

    public boolean addItem(ItemEntity item){
        if(isEmptyItem(item)) {
            return false;
        }

        try {
            ItemEntity c = findItemEntity(item);
            if(c == null){
                itemRepository.save(item);
            }
            else{
                c.countUp();
                updateItemById(c);
            }
            return true;
        }
        catch (Exception e){
            e.printStackTrace();
            return false;
        }
    }

```

```
}  
}
```

```
public boolean deleteItem(Long id){  
    try {  
        Optional<ItemEntity> c = itemRepository.findById(id);  
        if(c.isEmpty()){  
            return false;  
        }  
  
        ItemEntity item = c.get();  
        if(item.getCount() > 1){  
            item.countDown();  
            updateItemById(item);  
        }  
        else{  
            itemRepository.deleteById(id);  
        }  
        return true;  
    }  
    catch (Exception e){  
        return false;  
    }  
}
```

```
public boolean putItem(ItemEntity item){  
    if(isEmptyItem(item)) {  
        return false;  
    }  
  
    Optional<ItemEntity> c = itemRepository.findById(item.getId());  
    if(c.isEmpty()){  
        return false;  
    }  
  
    ItemEntity itemEntity = c.get();  
    itemEntity.setSection(item.getSection());  
    itemEntity.setName(item.getName());  
    itemEntity.setDateAdd(item.getDateAdd());  
    itemEntity.setStorageTime(item.getStorageTime());  
    itemEntity.setStoragePrice(item.getStoragePrice());  
    updateItemById(itemEntity);  
    return true;  
}
```

```
public List<Item> getItems(){  
    List<Item> items = new LinkedList<>();  
    itemRepository.findAll().forEach(e -> items.add(Item.toModel(e)));  
    return items;  
}
```

```

    }

    public Item getItem(Long id) throws ItemNotFoundException {
        var item = itemRepository.findById(id);
        if(item.isEmpty()){
            throw new ItemNotFoundException("Item don't found");
        }
        return Item.toModel(item.get());
    }

    public ItemEntity findItemEntity(ItemEntity item) {
        for (var c : itemRepository.findByName(item.getName())) {
            if (equalItems(c, item)) {
                return c;
            }
        }
        return null;
    }

    private void updateItemById(ItemEntity item){
        itemRepository.updateCostById(
            item.getSection(),
            item.getName(),
            item.getDateAdd(),
            item.getStorageTime(),
            item.getStoragePrice(),
            item.getCount(),
            item.getId()
        );
    }

    private boolean equalItems(ItemEntity e1, ItemEntity e2){
        return e1.getSection().equals(e2.getSection())
            && e1.getName().equals(e2.getName())
            && e1.getDateAdd().equals(e2.getDateAdd())
            && e1.getStorageTime().equals(e2.getStorageTime())
            && e1.getStoragePrice().equals(e2.getStoragePrice());
    }

    private boolean isEmptyItem(ItemEntity item){
        return item.getSection() == null
            || item.getName() == null
            || item.getDateAdd() == null
            || item.getStorageTime() == null
            || item.getStoragePrice() == null;
    }
}

```

```
// @filename \src\main\java\suai\trsis2021\labs\util\WebSecurityConfig.java
package suai.trsis2021.labs.util;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.provisioning.InMemoryUserDetailsManager;

@Configuration
@EnableWebSecurity
public class WebSecurityConfig extends WebSecurityConfigurerAdapter {

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.csrf().disable()

            .authorizeRequests()
                .antMatchers("/", "/home-page").permitAll()
                .antMatchers("/read-pane").hasAnyRole("USER", "ADMIN")
                .antMatchers("/crud-pane").hasRole("ADMIN")
            .and()
                .formLogin()
                    .loginPage("/login")
                    .permitAll()
            .and()
                .logout()
                    .permitAll()
            .and()
                .exceptionHandling().accessDeniedPage("/forbidden-page");
    }

    @Bean
    @Override
    protected UserDetailsService userDetailsService() {
        UserDetails user = User.withDefaultPasswordEncoder()
            .username("user")
            .password("1")
            .roles("USER")
            .build();

        UserDetails admin = User.withDefaultPasswordEncoder()

```

```

        .username("admin")
        .password("1")
        .roles("ADMIN")
        .build();

    return new InMemoryUserDetailsManager(user, admin);
}
}

```

```

// @filename \src\main\resources\templates\CrudPane.html
<!DOCTYPE html>
<html lang="ru">
<head>
    <meta charset="UTF-8">
    <title>Складской учет</title>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
</head>

<script type="text/javascript">
    $(document).ready(function (){
        refresh();
    })

    function refresh(){
        draw_table();
    }

    function draw_table(){
        $.ajax({
            url: "items/get/all",
            dataType: "json",
            contentType: "application/json",
            type: "GET",
            async: false,
            cache: false,
            success: function (data) {
                let $items = $('#items_table')

                let table = "<table border='1'>";
                table +=
                    " <tr>\n" +
                    " <th>id</th>\n" +
                    " <th>Секция</th>\n" +
                    " <th>Название товара</th>\n" +
                    " <th>Дата добавления</th>\n" +
                    " <th>Срок хранения</th>\n" +

```



```

        <th>Стоимость хранения</th>\n" +
        <th>Количество</th>\n" +
        <th></th>\n" +
        <th></th>\n" +
    </tr>;

    for(let i=0; i<data.length; i++) {
        table +=
            <tr>\n" +
            <td>" + data[i].id + "</td>\n" +
            <td>" + data[i].section + "</td>\n" +
            <td>" + data[i].name + "</td>\n" +
            <td>" + data[i].dateAdd + "</td>\n" +
            <td>" + data[i].storageTime + "</td>\n" +
            <td>" + data[i].storagePrice + "</td>\n" +
            <td>" + data[i].count + "</td>\n" +
            <td>\n" +
            <button onclick='deleteCost(" + data[i].id + ")'>Delete</button>\n" +
            </td>\n" +
            <td>\n" +
            // " <br>" +
            <button onclick='editCost(" + data[i].id + ")'>Edit</button>\n" +
            </td>\n" +
            </tr>;
    }

    table += "</table>";

    $items.html(table);
},
error: function (error) {
    console.log(error);
}
});
}

```

```

function addCost() {
    $.ajax({
        url: "/items/add/",
        dataType: "json",
        contentType: "application/json",
        type: "POST",
        async: false,
        cache: false,
        data: JSON.stringify({
            section: $("#fieldSection").val(),
            name: $("#fiendName").val(),
            dateAdd: $("#fieldDateAdd").val(),
            storageTime: $("#fieldStorageTime").val(),

```

```

        storagePrice: $("#fieldStoragePrice").val()
    }},
    success: function () {
        refresh();
    },
    error: function (error) {
        console.log(error);
    }
});
}

```

```

function deleteCost(idCost){
    $.ajax({
        url:'items/delete/' + idCost,
        type: "DELETE",
        async: false,
        cache: false,
        dataType: "json",
        contentType: "application/json; charset=utf-8",
        success: function (){
            refresh();
        },
        error: function (error){
            console.log(error);
        }
    })
}

```

```

function editCost(idCost){
    $.ajax({
        url: "/items/put/" + idCost,
        dataType: "json",
        contentType: "application/json",
        type: "PUT",
        async: false,
        cache: false,
        data: JSON.stringify({
            id: idCost,
            section: $("#fieldSection").val(),
            name: $("#fieldName").val(),
            dateAdd: $("#fieldDateAdd").val(),
            storageTime: $("#fieldStorageTime").val(),
            storagePrice: $("#fieldStoragePrice").val()
        }),
        success: function (){
            refresh();
        },
        error: function (error){
            console.log(error);
        }
    })
}

```

```

    }
  })
}

</script>

<body>

  <div th:include="Logout"></div>

  <h1>Складской учет</h1>
  <div>
    <form>
      <table border="1" cellpadding="5">
        <tr><th>Секция</th> <td>
          <input type="text" name="section" id="fieldSection"> </td></tr>
        <tr><th>Название товара</th> <td>
          <input type="text" name="name" id="fiendName"> </td></tr>
        <tr><th>Дата добавления</th> <td>
          <input type="date" name="date_add" id="fieldDateAdd"> </td></tr>
        <tr><th>Срок хранения</th> <td>
          <input type="number" name="storage_time" id="fieldStorageTime"> </td> </tr>
        <tr><th>Стоимость хранения</th> <td>
          <input type="number" name="storage_price" id="fieldStoragePrice"> </td> </tr>
      </table>
    </form>
  </div>
  <button type="button" onclick='addCost()>Добавить</button>
  <br>
  <br>
  <div id="items_table"></div>

</body>
</html>

```

```

// @filename \src\main\resources\templates\ForbiddenPage.html
<!DOCTYPE html>
<html lang="ru">

<head>
  <meta charset="UTF-8">
  <title>Складской учет</title>
</head>

<body>
  <div style="text-align: center;">
    <h2>Доступ запрещен.</h2>
  </div>

```

</body>

```
// @filename \src\main\resources\templates\HomePage.html
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3"
      lang="ru">

<head>
  <title>Home</title>
</head>

<div th:include="Logout"></div>

<div>
  <h3>Pages</h3>
  <ul>
    <li>
      <a href="login">Авторизация </a></li>
      <li sec:authorize="hasRole('ADMIN')">
        <a href="crud-pane">Панель администратора</a></li>
      <!-- <li sec:authorize="hasRole('USER')">-->
      <li sec:authorize="hasAnyRole('USER', 'ADMIN')">
        <a href="read-pane">Панель пользователя </a></li>
    </ul>
  </div>

</html>
```

```
// @filename \src\main\resources\templates>LoginPage.html
<!DOCTYPE html>
<html lang="ru"
      xmlns="http://www.w3.org/1999/xhtml"
      xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">
<head>
  <meta charset="UTF-8">
  <title>Логин</title>
</head>

<style>
div.error{
  color: #000000;
  background-color: rgba(219, 112, 147, 0.67);
  text-align: center;
```

```

        border-radius: 15px;
    }
    div.logout{
        color: #000000;
        background-color: rgba(152, 251, 152, 0.67);
        text-align: center;
        border-radius: 15px;
    }
</style>

<body>

<div th:include="Logout"></div>
<a href="/" >Home</a>

<div style="
position: absolute;
top: 50%;
left: 50%;
margin-right: -50%;
transform: translate(-50%, -50%);
">
    <div class="error" th:if="${param.error}">
        Неверное имя пользователя или пароль.
    </div>

    <div class="logout" th:if="${param.logout}">
        Вы вышли из учетной записи.
    </div>

    <form th:action="@{/login}" method="post">
        <table border="0" cellpadding="5">
            <tr><th align="right"> Имя пользователя :</th> <td>
                <input type="text" name="username"> </td></tr>
            <tr><th align="right"> Пароль : </th> <td>
                <input type="password" name="password"> </td></tr>
            <tr><th> </th> <td align="right">
                <input type="submit" value="Войти"/> </td></tr>
        </table>
    </form>
</div>

</body>

</html>

```

```
// @filename \src\main\resources\templates\Logout.html
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:th="https://www.thymeleaf.org"
      xmlns:sec="https://www.thymeleaf.org/thymeleaf-extras-springsecurity3">

<body>

<form th:action="@{/logout}" method="post">
  <div th:if="${#request.userPrincipal != null}" th:inline="text">
    Вы вошли как: [[${#httpServletRequest.remoteUser}]]
    <input type="submit" value="Выйти"/>
  </div>
</form>
</body>
</html>
```

```
// @filename \src\main\resources\templates\ReadPane.html
<!DOCTYPE html>
<html lang="ru">
<head>
  <meta charset="UTF-8">
  <title>Складской учет</title>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
</head>

<script type="text/javascript">
  $(document).ready(function (){
    refresh();
  })

  function refresh(){
    draw_table();
  }

  function draw_table(){
    $.ajax({
      url: "items/get/all",
      dataType: "json",
      contentType: "application/json",
      type: "GET",
      async: false,
      cache: false,
      success: function (data) {
        let $items = $('#items_table')

        let table = "<table border='1'>";
        table +=
```

```

" <tr>\n" +
"   <th>id</th>\n" +
"   <th>Секция</th>\n" +
"   <th>Название товара</th>\n" +
"   <th>Дата добавления</th>\n" +
"   <th>Срок хранения</th>\n" +
"   <th>Стоимость хранения</th>\n" +
"   <th>Количество</th>\n" +
" </tr>";

for(let i=0; i<data.length; i++) {
  table +=
    "<tr>\n" +
    "  <td>" + data[i].id + "</td>\n" +
    "  <td>" + data[i].section + "</td>\n" +
    "  <td>" + data[i].name + "</td>\n" +
    "  <td>" + data[i].dateAdd + "</td>\n" +
    "  <td>" + data[i].storageTime + "</td>\n" +
    "  <td>" + data[i].storagePrice + "</td>\n" +
    "  <td>" + data[i].count + "</td>\n" +
    "</tr>";
}

table += "</table>";

$items.html(table);
},
error: function (error) {
  console.log(error);
}
});
}
</script>

<body>

  <div th:include="Logout"></div>

  <div>
    <h1>Складской учет</h1>
    <div id='items_table'></div>
  </div>

</body>

</html>

```