

Spring Security in JUnit Test

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1  @RunWith(SpringJUnit4ClassRunner.class)
2  @ContextConfiguration(locations = {"classpath:/applicationContext.xml",
3      "classpath:/mvc-dispatcher-servlet.xml",
4      "classpath:/spring-security.xml"})
5  @WebAppConfiguration
6  public class UserControllerTest {
7
8      @Autowired
9      private UserService userService;
10     @Autowired
11     WebApplicationContext wac;
12     private MockMvc mockMvc;
13
14     @Before
15     public void setup() {
16         MockitoAnnotations.initMocks(this);
17         this.mockMvc = MockMvcBuilders.webApplicationContextSetup(wac).apply(springSecurity()).build();
18     }
19
20     @Test
21     @WithMockUser(username = "myuce")
22     public void saveBelge() throws Exception {
23         Belge belge = new GumrukServiceUtilTest().createBelge();
24         mockMvc.perform(post("/kullanici/belge/kaydet")
25             .flashAttr("belge", belge)
26             .andExpect(status().isOk()));
27     }
28
29     @Test
30     public void register() throws Exception {
31         User user = createUser();
32         saveUser(user);
33         assertEquals(user.getUsername(), getUserFromDB(user.getUsername()).getUsername());
34     }
35
36     private User createUser() {
37         User user = new User();
38         user.setUsername(RandomStringUtils.random(4, true, false));
39         user.setTitle(RandomStringUtils.random(20, true, false));
40         user.setName(RandomStringUtils.random(5, true, false));
41         user.setSurname(RandomStringUtils.random(5, true, false));
42         user.setPassword(RandomStringUtils.random(8, false, true));
43         user.setTelephone(RandomStringUtils.random(10, false, true));
44         user.setEmail(RandomStringUtils.random(4, true, false) + "@telifhaklari.gov.tr");
45         user.setAddress(RandomStringUtils.random(50, true, true));
46         return user;
47     }
48
49     private void saveUser(User user) throws Exception {
50         mockMvc.perform(post("/kayit")
51             .param("captcha", "10")
52             .with(csrf())
53             .sessionAttrs(getCaptcha())
54             .flashAttr("user", user)
55             .andExpect(status().isOk()));
56     }
57
58
59     private Map<String, Object> getCaptcha() {
60         Map<String, Object> sessionAttrs = new HashMap<String, Object>();
61         sessionAttrs.put("rand1", "5");
62     }
63 }
```

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62     sessionAttrs.put("rand2", "5");
63     return sessionAttrs;
64 }
65
66 private User getUserFromDB(String username) {
67     return userService.getUser(username);
68 }
69
70 @Test
71 public void saveAdmin() throws Exception {
72     User user = createUser();
73     UserRole userRole=new UserRole();
74     userRole.setUserRoleId(1);
75     user.setUserRoleList(Arrays.asList(userRole));
76     saveAdmin(user);
77     assertEquals(user.getUsername(), getUserFromDB(user.getUsername()).getUsername());
78 }
79
80 private void saveAdmin(User user) throws Exception {
81     mockMvc.perform(post("/yonetim/home/yonetici/ekle/kaydet")
82         .with(csrf())
83         .session((MockHttpSession) getSession("SaFv", "14093171"))
84         .flashAttr("user", user))
85         .andExpect(status().isOk());
86 }
87
88 @Test
89 public void passwordRemind() throws Exception {
90     User user = createUser();
91     saveUser(user);
92     mockMvc.perform(post("/sifre-hatirlatma")
93         .param("username", user.getUsername())
94         .param("email", user.getEmail())
95         .param("captcha", "10")
96         .with(csrf())
97         .sessionAttrs(getCaptcha()))
98         .andExpect(status().isOk());
99 }
100
101 @Test
102 public void updateUserInfo() throws Exception {
103     User user = createUser();
104     saveUser(user);
105     String username = user.getUsername();
106     String password = user.getPassword();
107     User replacedUserInfo = createUser();
108     user.setName(replacedUserInfo.getName());
109     user.setPassword(replacedUserInfo.getPassword());
110     user.setTelephone(replacedUserInfo.getTelephone());
111     user.setEmail(replacedUserInfo.getEmail());
112     mockMvc.perform(post("/kullanici/bilgilerim/kaydet")
113         .flashAttr("user", user)
114         .session((MockHttpSession) getSession(username, password))
115         .with(csrf()))
116         .andExpect(status().isOk());
117 }
118
119 @Test
120 public void bilgilerim() throws Exception {
121     User user = createUser();
122     saveUser(user);
123     mockMvc.perform(get("/kullanici/bilgilerim")
124         .session((MockHttpSession) getSession(user.getUsername(),
125             user.getPassword())))
126         .andExpect(status().isOk());
127 }
128

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129     private HttpSession getHttpSession(String username, String password) throws Exception {
130         return mockMvc.perform(post("/login")
131             .param("username", username)
132             .param("password", password)
133             .param("captcha", "10")
134             .with(csrf())
135             .sessionAttrs(getCaptcha()))
136             .andDo(print())
137             .andExpect(status().is(HttpStatus.FOUND.value()))
138             .andReturn()
139             .getRequest()
140             .getSession();
141     }
142
143     @Test
144     public void changePassword() throws Exception {
145         User user = createUser();
146         saveUser(user);
147         String newPassword = createUser().getPassword();
148         mockMvc.perform(post("/kullanici/sifre-degistirme")
149             .param("oldPassword", user.getPassword())
150             .param("newPassword", newPassword)
151             .param("retypedNewPassword", newPassword)
152             .session((MockHttpSession) getHttpSession(user.getUsername(),
153 user.getPassword()))
154             .with(csrf()))
155             .andDo(print())
156             .andExpect(status().isOk());
157     }

```