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1 package de.hawaii.bicycle_tracking.server.astcore.customermanagement;
2
3 import static org.assertj.core.api.Assertions.assertThat;
4 import static org.junit.Assert.fail;
5
6 import java.util.Date;
7
8 import javax.annotation.Resource;
9
10 import org.junit.Before;
11 import org.junit.Test;
12 import org.junit.runner.RunWith;
13 import org.springframework.dao.DataIntegrityViolationException;
14 import org.springframework.test.context.ContextConfiguration;
15 import org.springframework.test.context.TestExecutionListeners;
16 import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;
17 import org.springframework.test.context.support.AnnotationConfigContextLoader;
18 import org.springframework.test.context.support.DependencyInjectionTestExecutionListener;
19 import org.springframework.test.context.support DirtiesContextTestExecutionListener;
20 import org.springframework.test.context.transaction.TransactionConfiguration;
21 import org.springframework.test.context.transaction.TransactionalTestExecutionListener;
22 import org.springframework.transaction.annotation.Transactional;
23
24 import de.hawaii.bicycle_tracking.server.AppConfig;
25 import de.hawaii.bicycle_tracking.server.security.HawaiiAuthority;
26 import de.hawaii.bicycle_tracking.server.utility.value.Address;
27 import de.hawaii.bicycle_tracking.server.utility.value.Email;
28
29 @RunWith(SpringJUnit4ClassRunner.class)
30 @ContextConfiguration(loader = AnnotationConfigContextLoader.class, classes = AppConfig.class)
31 @Transactional(noRollbackFor = Exception.class)
32 @TestExecutionListeners(listeners = {DependencyInjectionTestExecutionListener.class,
33     DirtiesContextTestExecutionListener.class, TransactionalTestExecutionListener.class})
34 @TransactionConfiguration(transactionManager = "transactionManager", defaultRollback = true)
35 public class UserIT {
36
37     private static final String NAME = "Name";
38     private static final String FIRST_NAME = "FirstName";
39     private static final Email E_MAIL_ADDRESS = new Email("foo@bar.com");
40     private static final Address ADDRESS = new Address("Foostreet", "1a", "Barheim", "DC", "1337", "Germany");
41     private static final Date BIRTHDATE = new Date(0);
42     private static final String PASSWORD = "TestingPassword";
43
44     @Resource(name = "IUserDao")
45     private IUserDao userDao;
46
47     private User user;
48
49     @Before
50     public void setup() {
51         user = new User(NAME, FIRST_NAME, E_MAIL_ADDRESS, ADDRESS, BIRTHDATE, PASSWORD, HawaiiAuthority.USER);
52         userDao.save(user);
53     }
54
55     @Test
56     public void getOneByID_UserExists UserCanBeFoundByID() throws Exception {
57         User userFromDB = userDao.getOne(user.getId());
58         assertThat(user).isEqualTo(userFromDB);
59     }
60
61     @Test
62     public void getOneByID_UserExists UserAttributesAreEqual() throws Exception {
63         User userFromDB = userDao.getOne(user.getId());
64         assertThat(user).isEqualTo(userFromDB);
65         assertThat(user.getName()).isEqualTo(userFromDB.getName());
66         assertThat(user.getFirstName()).isEqualTo(userFromDB.getFirstName());
67         assertThat(user.getMailAddress()).isEqualTo(userFromDB.getMailAddress());
68         assertThat(user.getAddress()).isEqualTo(userFromDB.getAddress());
69         assertThat(user.getBirthdate()).isEqualTo(userFromDB.getBirthdate());
70         assertThat(NAME).isEqualTo(userFromDB.getName());
71         assertThat(FIRST_NAME).isEqualTo(userFromDB.getFirstName());

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72     assertEquals(E_MAIL_ADDRESS).isEqualTo(userFromDB.getMailAddress());
73     assertEquals(ADDRESS).isEqualTo(userFromDB.getAddress());
74     assertEquals(BIRTHDATE).isEqualTo(userFromDB.getBirthdate());
75     assertEquals(PASSWORD).isEqualTo(userFromDB.getPassword());
76 }
77
78 @Test
79 public void getByMail_UserDoesntExit_UserCantBeFound() throws Exception {
80     assertEquals(userDao.getByMailAddress(new Email("foobar@bar.gov")).isPresent()).
isFalse();
81 }
82
83 @Test
84 public void save_UserWithSameMailExists_UserCantBeSaved() throws Exception {
85     try {
86         userDao.saveAndFlush(new User("other name",
87             "other first name", E_MAIL_ADDRESS,
88             new Address("A", "B", "C", "D", "E", "F"),
89             new Date(42),
90             "Other Password", HawaiiAuthority.USER));
91         fail("DataIntegrityViolationException expected because test tries to save a
user with an already existent email address.");
92     } catch (DataIntegrityViolationException e) {
93         // do nothing
94     }
95 }
96
97 @Test
98 public void save_UserWithoutBirthday_UserCantBeSaved() throws Exception {
99     userDao.save(new User("other name",
100         "other first name", new Email("somerandom@mail.com"),
101         new Address("A", "B", "C", "D", "E", "F"),
102         null,
103         "Other Password", HawaiiAuthority.USER));
104 }
105 }
106

```