```java
1  import org.junit.After;
2  import org.junit.Before;
3  import org.junit.Test;
4  import org.openqa.selenium.By;
5  import org.openqa.selenium.Keys;
6  import org.openqa.selenium.WebDriver;
7  import org.openqa.selenium.WebElement;
8  import org.openqa.selenium.firefox.FirefoxDriver;
9  import org.openqa.selenium.support.ui.ExpectedConditions;
10 import org.openqa.selenium.support.ui.WebDriverWait;
11
12 import static org.junit.Assert.assertEquals;
13
14 /**
15  * @author Henry Weckermann
16  * Hausarbeit im Rahmen von Software Engineering 2 bei Prof. Dr. Sasha
   Alda
17  */
18
19 public class LoginTest {
20
21     private static WebDriver driver;
22
23     public LoginTest() {
24     }
25
26     @Before
27     public void setUp() {
28         System.setProperty("webdriver.gecko.driver", "Drivers\\
   geckodriver.exe");
29         driver = new FirefoxDriver();
30     }
31
32     @After
33     public void tearDown() {
34         driver.quit();
35     }
36
37     @Test
38     public void login() {
39
40         WebDriverWait wait = new WebDriverWait(driver, 5);
41
42         //open website. Server has to be started beforehand
43         driver.get("http://localhost:8080/!login");
44
45         //maximize the window for looks
46         driver.manage().window().maximize();
47
48         //make sure that the page is rendered
49         wait.until(ExpectedConditions.visibilityOfElementLocated(By.id
   ("gwt-uid-3")));
50
51         //find and select the email field
52         driver.findElement(By.id("gwt-uid-3")).click();
53
54         //input email of salesman account
```

```java
55          driver.findElement(By.id("gwt-uid-3")).sendKeys("admin@
    carsearch24.de");
56
57          //input password
58          driver.findElement(By.id("gwt-uid-5")).sendKeys("Test1234");
59
60          //press "login" button
61          driver.findElement(By.cssSelector(".v-slot:nth-child(5) > .v-
    button")).click();
62
63          //make sure the new site is loaded
64          wait.until(ExpectedConditions.visibilityOfElementLocated(By.
    xpath("//*[@id=\"ROOT-2521314\"]/div/div[2]/div[1]/div/div[5]/div/
    span[1]")));
65
66          //find user page button and extract the text out of it.
67          WebElement element = driver.findElement(By.xpath("//*[@id=\"
    ROOT-2521314\"]/div/div[2]/div[1]/div/div[5]/div/span[1]"));
68          String buttonName = element.getText().substring(1); //there
    is a weird char in the button text so it is left out
69
70          // Tests if the user name and role is correct by checking the
    button for the personal page: <user first name>'s Autos
71          assertEquals("Henry's Autos", buttonName);
72
73          // Press logout button
74          driver.findElement(By.cssSelector(".v-menubar-menuitem:nth-
    child(2)")).click();
75
76          // Select email field
77          driver.findElement(By.id("gwt-uid-3")).click();
78
79          //input the email of a user account
80          driver.findElement(By.id("gwt-uid-3")).sendKeys("henry.
    weckermann@gmx.de");
81
82          //input password
83          driver.findElement(By.id("gwt-uid-5")).sendKeys("Test1234");
84
85          //confirm by enter key this time
86          driver.findElement(By.id("gwt-uid-5")).sendKeys(Keys.ENTER);
87
88          //make sure the page is loaded correctly
89          wait.until(ExpectedConditions.visibilityOfElementLocated(By.
    xpath("//*[@id=\"ROOT-2521314\"]/div/div[2]/div[1]/div/div[5]/div/
    span[1]")));
90
91          //finds the user page button and reads its text
92          WebElement element2 = driver.findElement(By.xpath("//*[@id=\"
    ROOT-2521314\"]/div/div[2]/div[1]/div/div[5]/div/span[1]"));
93          String buttonName2 = element2.getText().substring(1); //there
    is a weird char in the button text so it is left out
94
95          //Button text is: <user first name>'s Reservierungen
96          assertEquals("Anna's Reservierungen", buttonName2);
97      }
98 }
```