

MBT DIT848/DAT261

Tutorial 2

Jan Schröder

03.04.2017



Organizational

- Anybody without a group?
- Consultation Sessions today
- Work in your groups
- Use the Google Group for any questions! Help others!
<https://groups.google.com/forum/#!forum/dat261-model-based-testing-2017>
- Reach out to the supervisors with questions and feedback

Goals Today's Session

1.JUnit Example

2.Testing and Debugging in IntelliJ IDEA

3.Tools for Drawing EFSMs

4.Modeling Exercise

5.Consultation

JUnit Example

- Basic Example: Testing Login into Fire System

```
10 public class MyFirstTest {
11
12     WebDriver driver;
13
14     @Before
15     public void goToFire() {
16         driver = new FirefoxDriver();
17         driver.get("http://127.0.0.1:5000/lbs/");
18     }
19
20     private void login(String username, String password) {
21         driver.findElement(By.name("email")).sendKeys(username);
22         driver.findElement(By.name("password")).sendKeys(password);
23         driver.findElement(By.id("loginbtn")).click();
24     }
25
26     @Test
27     public void testFireLoginAndLogout() {
28         login("arnarbi@gmail.com","test");
29         assertEquals("Laboration overview for Student Birgisson (TDA602)",
30             driver.findElement(By.tagName("h1")).getText());
31     }
32
33     @After
34     public void quitBrowser() {
35         driver.quit();
36     }
37
38 }
```

Testing and Debugging in IntelliJ

- How does JUnit work in IntelliJ?
- Live Demo
 - Example: ImplementationViewComponent and Test

Tools for Drawing EFSMs

- Dia
dia-installer.de
- Fizzim
<http://www.fizzim.com/>
- Finite State Machine Designer
<http://madebyevan.com/fsm/>
- Powerpoint/Visio/Keynote

Modeling Exercise

Printed Exercises on a Pedestrian Traffic Light System

More on EFSMs and Exercises

Modeling software with finite state machines; a practical approach, 2006, Ringgold Inc, Portland.