

Week 6 Day 5

Integration Testing



Allows you to map beans to different profiles

- Allows for best practices of separating working environments
- Map a bean to specific environment with `@Profile("environmentName")`
- Set the active profile in application properties with `spring.properties.active='environment'`
- Create separate `.properties` files for specific setups for profiles

- Testing a combination of multiple units/modules
- Exposes defects in the interaction between units
- Make use of JUnit, Mockito, and Spring Testing Features

```
115     @Test
116     @Transactional
117     public void getUserInfo() throws Exception {
118
119         User u = ur.save(new User("first", "last", "test", "test@email.com", "password"));
120
121         mockMvc.perform(get("/user?id="+u.getId()))
122             .andExpect(status().isOk())
123             .andExpect(jsonPath("$.firstName").value("first"))
124             .andExpect(jsonPath("$.lastName").value("last"))
125             .andExpect(jsonPath("$.username").value("test"))
126             .andExpect(jsonPath("$.email").value("test@email.com"))
127             .andExpect(jsonPath("$.password").value("password"))
128             .andExpect(jsonPath("$.posts").value(new ArrayList<Post>()));
129
130     }
131
132
133 }
```

Spying is another use of Mockito which allows for the watching of class methods

- Could be useful in integration testing
- Useful to make sure correct methods were called
- Also allows for overriding original method logic

```
@Spy
List<String> spyList = new ArrayList<String>();

@Test
public void whenUsingTheSpyAnnotation_thenObjectIsSpied() {
    spyList.add("one");
    spyList.add("two");

    Mockito.verify(spyList).add("one");
    Mockito.verify(spyList).add("two");

    assertThat(aSpyList).hasSize(2);
}
```



