

Throwing Exceptions with Mocks



Throwing Exceptions

- May need to configure the mock to throw an exception
- Possible use case
 - Testing how the code handles exceptions



Refresher

MockAnnotationTest.java

```
@SpringBootTest(classes=MvcTestingExampleApplication.class)
public class MockAnnotationTest {

@MockBean
    private ApplicationDao applicationDao;

@Autowired
    private ApplicationService applicationService;
...
}
We will mock the DAO to throw exceptions
```



Throw Exception

MockAnnotationTest.java

Assert that the exception was thrown



Throw Exception: Consecutive calls

MockAnnotationTest.java

```
@DisplayName("Multiple Stubbing")
@Test
public void stubbingConsecutiveCalls() {
    CollegeStudent nullStudent = (CollegeStudent) context.getBean("collegeStudent");
                                                                                   First call ... throw exception
    when(applicationDao.checkNull(nullStudent))
            .thenThrow(new RuntimeException())
            .thenReturn("Do not throw exception second time");
                                                                          Consecutive calls ... do NOT throw exception
                                                                                       Just return a string
    assertThrows(RuntimeException.class, () -> {
        applicationService.checkNull(nullStudent);
                                                         First call
   });
    assertEquals("Do not throw exception second time", applicationService.checkNull(nullStudent));
                                                                           Second call
```

