

Junit Testing

```
13 import java.util.List;
14 import java.util.Optional;
15
16 @DataJpaTest
17 @AutoConfigureTestDatabase(replace = AutoConfigureTestDatabase.Replace.NONE)
18 public class StudentServiceTest {
19
20     3 usages
21     @Autowired
22     private StudentRepository studentRepository;
23     @Test
24     public void when_save_student_it_should_return_student(){
25         Student student = new Student();
26         student.setStudentName("Fajar Satriatna");
27         student.setGender('M');
28         student.setWeight(68.0);
29         student.setHeight(165.0);
30         student.setPhone("085704769156");
31         student.setAddress("Jl. Tambak No.5 Jakarta");
32
33         Student res = studentRepository.save(student);
34         assertEquals(student.getStudentName(), res.getStudentName().trim());
35     }
36
37     @Test
38     public void find_student_by_id(){
39         Long id= Long.valueOf(1);
40         Optional<Student> student = studentRepository.findById(id);
41         assertEquals(id, student.get().getId());
42     }
43
44     @Test
45     public void testGetStudents() {
46         List<Student> res = studentRepository.findAll();
47         assertEquals(res.size(), 0);
48     }
49 }
50
51
```

Run: StudentApplication - StudentServiceTest

Tests passed: 3 of 3 tests - 990 ms

16:17:08.197 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAwareContextLoaderDelegate from class [org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate]

16:17:08.198 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating BootstrapContext using constructor [public org.springframework.test.context.support.DefaultBootstrapContext(java.lang.Class,org.springframework.test.context.CacheAwareContextLoaderDelegate)]

16:17:08.199 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating TestContextBootstrapper for test class [com.student.StudentServiceTest] from class [org.springframework.test.context.support.DefaultTestContextBootstrapper]

16:17:08.200 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoaderUtils - Could not detect default configuration classes for test class [com.student.StudentServiceTest]: no resource found for [com.student.StudentServiceTest\$Configuration]

16:17:08.201 [main] DEBUG org.springframework.test.context.support.AbstractContextLoader - Did not detect default resource location for test class [com.student.StudentServiceTest]: class path resource [com/student/StudentServiceTest-context.xml] not found

16:17:08.202 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoaderUtils - Could not detect default configuration classes for test class [com.student.StudentServiceTest]: no resource found for [com.student.StudentServiceTest\$Configuration]

16:17:08.203 [main] DEBUG org.springframework.test.context.support.ActiveProfilesUtils - Could not find an 'annotation declaring class' for annotation type [org.springframework.test.context.ActiveProfiles], falling back to default class names

16:17:08.204 [main] DEBUG org.springframework.test.context.support.AnnotationConfigContextLoader - Identified candidate component class: file [/Users/menéndez/ACT! Andika/Evan Java/StudentApplication/src/main/java/com/student/StudentApplication.class]

16:17:08.205 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoader - Found @SpringBootConfiguration com.student.StudentApplication for test class com.student.StudentServiceTest

16:17:08.206 [main] DEBUG org.springframework.test.context.support.AnnotationConfigContextLoader - @TestExecutionListeners is not present for class [com.student.StudentServiceTest]: using defaults

16:17:08.207 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoader - Loaded default TestExecutionListener class names from location [META-INF/spring.factories]: [org.springframework.test.context.web.ServletTestExecutionListener, org.springframework.test.context.support.DependencyInjectionTestExecutionListener, org.springframework.test.context.support.JUnit4TestExecutionListener, org.springframework.test.context.support.MethodInvocationTestExecutionListener]