

Module 3 exercise (Task 2)

JUnit 5 Parameterized Testing

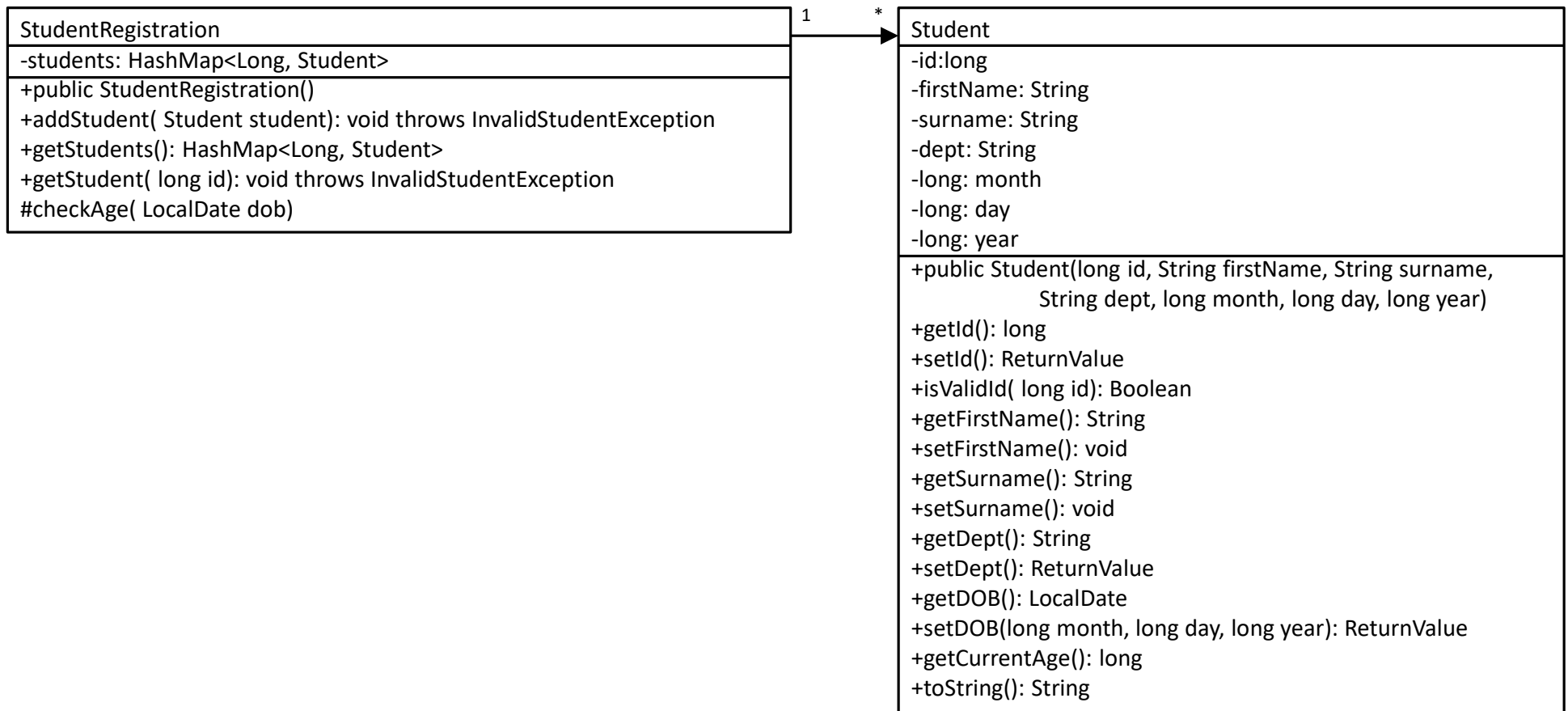
In this exercise, you complete these tasks:

- Create a parameterized test using JUnit 5 annotations



Lab 3.2 – Parameterized Testing

- There is start up code for this lab in the Lab03.2 set up directory with the following class diagram:



Lab 3.2 – Parameterized Testing

The Student class contains the following constraints:

- The setId() method returns
 - ReturnValue.INVALID if the id < 0 or id >= 10000
 - Otherwise ReturnValue.VALID
- The setDOB() method returns
 - ReturnValue.INVALID if the current age < 18
 - Otherwise ReturnValue.VALID
- The setDept() method returns
 - ReturnValue.INVALID not "engineering" or "computer science"
 - Otherwise ReturnValue.VALID

The StudentRegistration class contains the following constraints:

- The addStudent() method throws InvalidStudentException
 - if the id < 0 or id >= 10000
 - if attempting to add a duplicate id
 - if the current age < 18
- The getStudent() method throws InvalidStudentException
 - if the id does not exist

Lab 3.2 – Parameterized Testing

Use parameterized testing to test the Student and StudentRegistration classes.

- Test each of the testable methods
- Include in your testing the `@ParameterizedTest`, `@MethodSource`, `@ArgumentsSource` and `@RepeatedTest` annotations

