

# Assignment 3 - Group 15a

## Mutation testing

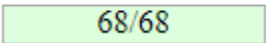
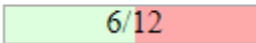
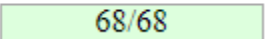
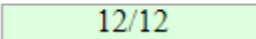
We used Pitest mutation testing tool to generate HTML reports. We provide you with screenshots before and after applying mutation testing. We have identified no equivalent mutants during the process.

## Tested classes

Below you can see which classes we tested. We picked those whose coverage was less or close to 70%. To show the difference, we uploaded 2 screenshots: first, class coverage before adding tests, and second - after.

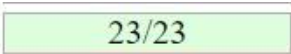
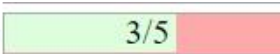
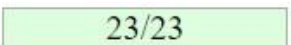
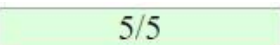
### CommunicationService

course/.../test/java/course/services/CommunicationServiceTest

Name	Line Coverage	Mutation Coverage
<a href="#">CommunicationService.java</a>	100%  68/68	50%  6/12
Name	Line Coverage	Mutation Coverage
<a href="#">CommunicationService.java</a>	100%  68/68	100%  12/12

Commit **2a3adb8c**

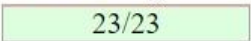
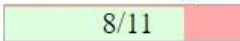
### Student Class lecturer/src/test/java/lecturer/entities/StudentClassTest

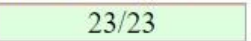

<a href="#">Student.java</a>	100%  23/23	60%  3/5
<a href="#">Student.java</a>	100%  23/23	100%  5/5

Commit **ae5338ee**

## Lecturer Controller

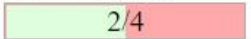
lecturer/src/test/java/lecturer/controllers/LecturerControllerTest

Name	Line Coverage	Mutation Coverage
<a href="#">LecturerController.java</a>	100%  23/23	73%  8/11

Name	Line Coverage	Mutation Coverage
<a href="#">LecturerController.java</a>	100%  23/23	100%  11/11

Commit **923983b9**

## Lecturer Application lecturer/src/test/java/lecturer/LecturerApplicationTest

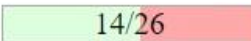
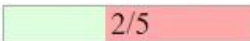
Name	Line Coverage	Mutation Coverage
<a href="#">LecturerApplication.java</a>	50%  2/4	0%  0/1

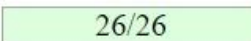
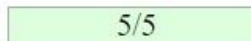
Name	Line Coverage	Mutation Coverage
<a href="#">LecturerApplication.java</a>	50%  2/4	100%  1/1

Commit **d1dcf040**

## Management Communication

student/src/test/java/student/communication/ManagementCommunicationTest

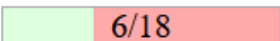
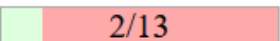
<a href="#">ManagementCommunication.java</a>	54%  14/26	40%  2/5
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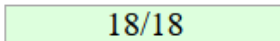
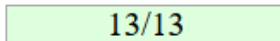
<a href="#">ManagementCommunication.java</a>	100%  26/26	100%  5/5
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Commit **9e9a46c2**

## Student Controller

student/src/test/java/student/controllers/StudentControllerTest

Name	Line Coverage	Mutation Coverage
<a href="#">StudentController.java</a>	33%  6/18	15%  2/13

Name	Line Coverage	Mutation Coverage
<a href="#">StudentController.java</a>	100%  18/18	100%  13/13

Commit **04351a19**