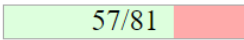
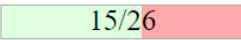


Assignment 3: 14a

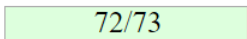
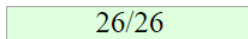
Task 1: Automated Mutation Testing

Class 1: PromotionAndEmploymentService(Users.Domain)

Mutation score before: 58%

[PromotionAndEmploymentService.java](#) 70%  58% 

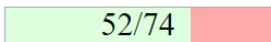
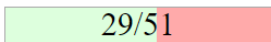
Mutation score after: 100%

[PromotionAndEmploymentService.java](#) 99%  100% 

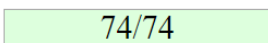
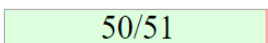
Commit can be found [here](#)

Class 2: RegistrationService (Requests.Domain)

Mutation score before: 57%

[RegistrationService.java](#) 70%  57% 

Mutation score after: 98%

[RegistrationService.java](#) 100%  98% 

Note: 1 equivalent mutant was found on the following piece of code:

Method: registerRequest:

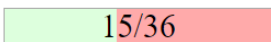
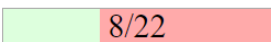
```
if (initialToken == null) {
```

The initial token is not influenced by the input of the method and therefore does not depend on it. It is the result of the way the microservice deals with tokens and is, therefore, difficult to refactor in multiple classes.

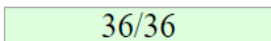
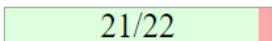
Commit can be found [here](#).

Class 3: RequestHandler (Requests.Domain)

Mutation score before: 36%

[RequestHandler.java](#) 42%  36% 

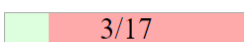
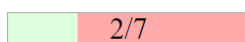
Mutation score after: 95%

[RequestHandler.java](#) 100%  95% 

Commit can be found [here](#).

Class 4: EmployeeService(Users.Domain)

Mutation score before: 29%

[EmployeeService.java](#) 18%  29% 

Mutation score after: 100%

[EmployeeService.java](#) 100%  100% 

Commit can be found [here](#).