

Test Report Group 23

Testing for this project was done in multiple ways over the course of the project. Different components were tested specifically using certain applications or methods in order to ensure their functionality before entering a different development stage. This process was continued until the whole project was tested as a whole to ensure it was in proper working order.

Initially, to test the backend, Postman and main functions along with normal interactions with the dashboard were being used. Furthermore, the JAX-RS client API is also utilized, by making requests to the backend. 3 unit tests have been written:

statusCodesTesting→ This class tests whether the REST API returns the correct status codes based on the types of requests.

securityTesting→ In this class, requests are made with the right and wrong credentials, invalid tokens etc. with validation based on status codes.

ResourceTesting→ This class focuses on collections or instances of resources. Requests are made for these and their number of resources or their e.g id is checked.

Consequently, it was ensured that the backend supported the variety of filters, searching etc. in order to properly integrate with the front-end.

In order to test the dashboard as a black box, Selenium IDE was used. Selenium records the interaction with the dashboard inside the browser and runs tests by reloading the page again repeatedly. Texts, functions are checked and rechecked in order to make sure they are valid. In case a change arises, an error is thrown displaying which part of the page is not consistent. Assuring the dashboard behaves as planned (a picture below).

Selenium IDE - Nedap Dashboard*

Project: Nedap Dashboard*

Tests

Search tests...

http://localhost:8080/dashboard/

Detailed View & Data

FAQ & Text

Failed login & success...

Log with diff. Roles

Login & Tabs

System/Application

Table & Filtering*

Values of Infographics

	Command	Target	Value
		n-child(2) > td:nth-child(2)	
32	verify text	css=#execution-params-info-body > tr:nth-child(2) > td:nth-child(3)	approved_difference_list_id
33	click	css=#execution-params-info-body > tr:nth-child(2) > td:nth-child(4)	
34	verify text	css=#execution-params-info-body > tr:nth-child(2) > td:nth-child(4)	29b87f7d-f7e7-3d0e-984a-996df4a3c377
35	verify text	css=#execution-params-info-body > tr:nth-child(2) > td:nth-child(5)	Y
36	click	id=default-tab	
37	click	linkText=2	
38	mouse down	css=.google-visualization-table-tr-sel > .left-text:nth-child(2)	
39	mouse up	css=#step-execution-body td:nth-child(2)	
40	click	css=.content	
41	click	id=failed-execution	
42	click	css=.detailed-execution:nth-child(2) > span:nth-child(2)	
43	click	css=.detailed-execution:nth-child(3) > span:nth-child(2)	

Command

open

//

Target

http://localhost:8080/dashboard/

Value

Description

Log

Reference

A .side file from Selenium has been added to allow further checking using Selenium IDE. The file can be found in /documents/selenium/Dashboard_Testing.side.