

Sprint 7 review:

Group 4: Kapiainen Casper, Phong Le, Vuorela Tino

Done:

Casper:

- Automated stress
- Functional and reliability tests with playwright
- Code cleanup
- QA documentation

Phong:

- Perform unit testing for all core functionalities
- Perform integration testing for localized features
- Fix bugs identified during testing phase
- Validate SonarQube code quality grades and Capture SonarQube report screenshots
- Perform non functional testing by JMeter

Tino:

- Wrote several frontend unit tests
- Added minor UI/UX improvements
- Code cleanup
- Performed heuristic evaluation

In progress:

- ⌚ Casper: Writing playwright tests turned out to take longer than expected; many stress and reliability tests outlined in our acceptance test document still lack implementation.

Sprint 7 18 Nov – 2 Dec (11 work items)		0	0	0	Complete sprint	...
<input checked="" type="checkbox"/> OTP-90	[Frontend] Performance and reliability testing	DONE				
<input checked="" type="checkbox"/> OTP-94	[Frontend] Usability testing	DONE				
<input checked="" type="checkbox"/> OTP-93	[Frontend] Functional testing	IN PROGRESS				
<input checked="" type="checkbox"/> OTP-109	[Frontend] UI/UX Improvements	DONE				
<input checked="" type="checkbox"/> OTP-102	[Backend] Perform unit testing for all core functionalities	DONE				
<input checked="" type="checkbox"/> OTP-103	[Backend] Perform integration testing for localized features	DONE				
<input checked="" type="checkbox"/> OTP-104	[Backend] Fix bugs identified during testing phase	DONE				
<input checked="" type="checkbox"/> OTP-105	[Backend] Validate SonarQube code quality grades and Capture SonarQube report screenshots	DONE				
<input checked="" type="checkbox"/> OTP-106	Non-Functional Testing	IN PROGRESS				
<input checked="" type="checkbox"/> OTP-107	Documentation & QA Process	IN PROGRESS				
<input checked="" type="checkbox"/> OTP-108	Sprint 7 Report Deliverables	TO DO				

+ Create

main

2.1k Lines of Code · Version 1.1 · Set as homepage

Last analysis 1 hour ago

Failed

New Code 1 failed

Overall Code

Security

0 Open issues

Reliability

0 Open issues

Maintainability

0 Open issues

Accepted issues

0

Coverage

70.1%

Duplications

1.7%

Valid issues that were not fixed

On 733 lines to cover.

On 2.8k lines.

Security Hotspots

0

A

B

C



Stage View

	Average stage times: (full run time: ~2min 48s)	Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	SonarQube Analysis	Test	Code Coverage	Non-Functional Test	Publish Test Results	Publish Coverage Report	
#17	Dec 01 13:45	No Changes	1s	677ms	2s	38s	19s	42s	38s	8s	1s	
#16	Dec 01 13:42	1 commit	1s	694ms	2s	36s	18s	31s	28s	8s	1s	
#15	Dec 01 13:37	1 commit	1s	502ms	1s	34s	14s	38s	37s	5s failed	580ms failed	530ms failed

Coverage java in whiteboard (1) (com.otp)				
Element ^	Class, %	Method, %	Line, %	Branch, %
com.otp.whiteboard	97% (41/42)	74% (171/230)	78% (513/6...)	34% (69/201)
api	100% (4/4)	100% (20/20)	98% (66/67)	88% (16/18)
config	100% (5/5)	100% (15/15)	100% (63/63)	100% (0/0)
dto	100% (13/13)	100% (18/18)	100% (32/32)	100% (0/0)
enums	100% (4/4)	62% (10/16)	53% (16/30)	0% (0/16)
listener	100% (1/1)	66% (2/3)	50% (4/8)	100% (0/0)
model	100% (5/5)	65% (65/100)	54% (84/155)	1% (1/94)
repository	100% (0/0)	100% (0/0)	100% (0/0)	100% (0/0)
security	75% (3/4)	20% (4/20)	12% (7/54)	0% (0/16)
service	100% (5/5)	100% (35/35)	97% (238/2...)	91% (52/57)
WhiteboardApplication	100% (1/1)	66% (2/3)	75% (3/4)	100% (0/0)

The report documents the results of static code analysis using PMD to detect type-related violations. The purpose is to improve code safety, maintainability, and adherence to best practices.

Key Metrics:

- Total files analyzed
- Total violations found
- Violation density
- Most frequent violation type

The table below summarizes the type violations detected

The table below summarizes the type violations fixed

Obstacles:

- None so far.

Contributions:

Team Member Name	Assigned Tasks	Time Spent (hrs)
Kapiainen Casper	Above	15
Phong Le	Above	15
Tino Vuorela	Above	15

Links:

Jira:

<https://metropolia-team-4.atlassian.net/jira/software/projects/OTP/boards/1/backlog>

GitHub:

https://github.com/PhongLe7de/Software_Engineering_Project_1_Group_4/tree/main