

## 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

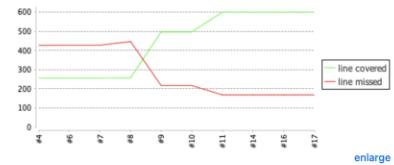
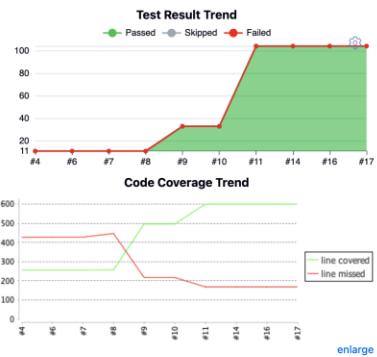
### In progress:

- ⌚ 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)

<input type="checkbox"/>	OTP-99 [Frontend] Performance and reliability testing	DONE	-	=	CK
<input type="checkbox"/>	OTP-94 [Frontend] Usability testing	DONE	-	=	Q
<input type="checkbox"/>	OTP-93 [Frontend] Functional testing	IN PROGRESS	-	=	TV
<input type="checkbox"/>	OTP-100 [Frontend] UI/UX Improvements	DONE	-	=	TV
<input type="checkbox"/>	OTP-102 [Backend] Perform unit testing for all core functionalities	DONE	-	=	P
<input type="checkbox"/>	OTP-103 [Backend] Perform integration testing for localized features	DONE	-	=	P
<input type="checkbox"/>	OTP-104 [Backend] Fix bugs identified during testing phase	DONE	-	=	P
<input type="checkbox"/>	OTP-105 [Backend] Validate SonarQube code quality grades and Capture SonarQube report screenshots	DONE	-	=	P
<input type="checkbox"/>	OTP-106 Non-Functional Testing	IN PROGRESS	-	=	P
<input type="checkbox"/>	OTP-107 Documentation & QA Process	IN PROGRESS	-	=	CK
<input type="checkbox"/>	OTP-108 Sprint 7 Report Deliverables	TO DO	-	=	Q

+ Create



enlarge

### Stage View

Average stage times:  
(full run time: ~2min 40s)

	Declarative: Checkout SCM	Declarative: Tool Install	Checkout	Build	SonarQube Analysis	Test	Code Coverage	Non-Functional Test	Publish Test Results	Publish Coverage Report
#18 Dec 03 08:01	6 commits	1s	872ms	2s	37s	17s	39s	37s	8s	1s
#17 Dec 01 13:45	No Changes	1s	837ms	2s	46s	24s	56s	50s	10s	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	

main      2k Lines of Code · Version 1.1 · Set as homepage

Quality Gate ⓘ      Passed      Last analysis 15 seconds ago

The last analysis has warnings. [See details](#)

New Code      Overall Code

New Code Since November 13, 2025 Started 19 days ago

New issues	Accepted issues	Coverage
0	0	80.0% Required ≥ 80.0% On 222 New Lines to cover.

Duplications      Security Hotspots

0.0%      0

Required ≤ 3.0%  
On 2.4k New Lines.

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](https://github.com/PhongLe7de/Software_Engineering_Project_1_Group_4/tree/main)