

# Sprint 7 Report

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## Functional testing

We redid all of the testing after last weeks code cleanup to ensure everything was working correctly and that the statistical code reporting is still in order

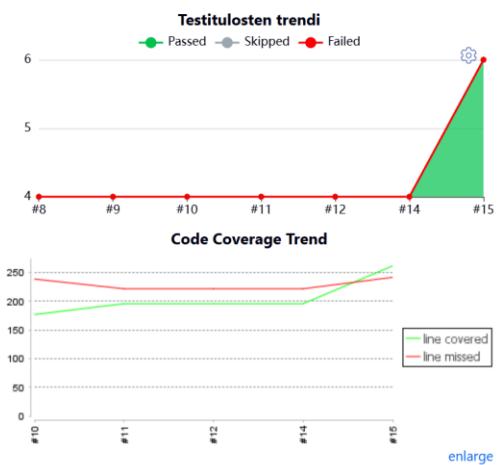
Below are screenshots from both frontend and backend jenkins runs showing everything is still in order:

### auction-frontend

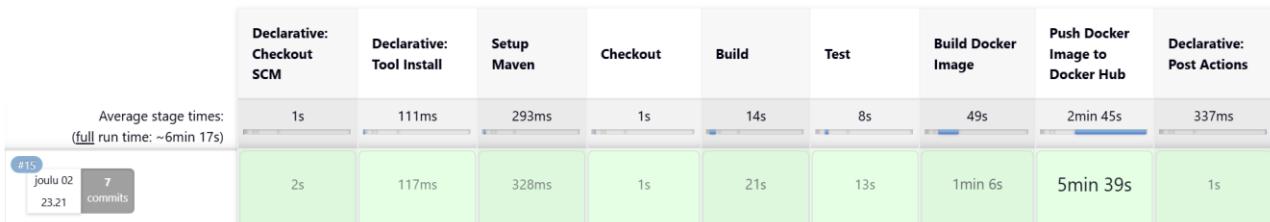
#### Stage View



Kuva 1 Jenkins for frontend

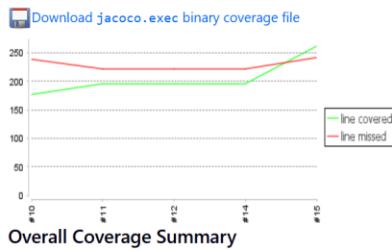


#### Stage View



Kuva 2 Jenkins for backend

## JaCoCo Coverage Report

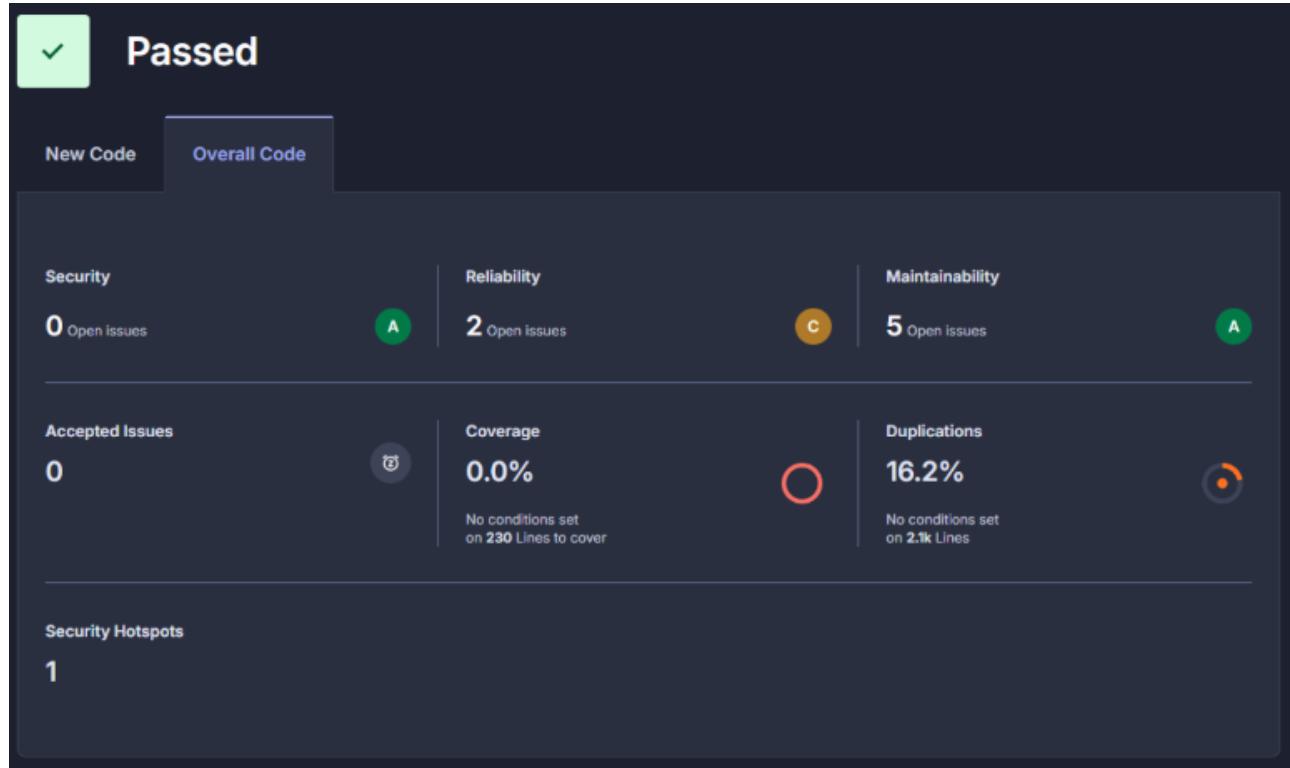


name	instruction	branch	complexity	line	method	class
all classes	33% M: 2230 C: 1120	9% M: 374 C: 39	24% M: 294 C: 95	52% M: 242 C: 262	48% M: 94 C: 88	76% M: 4 C: 13

### Coverage Breakdown by Package

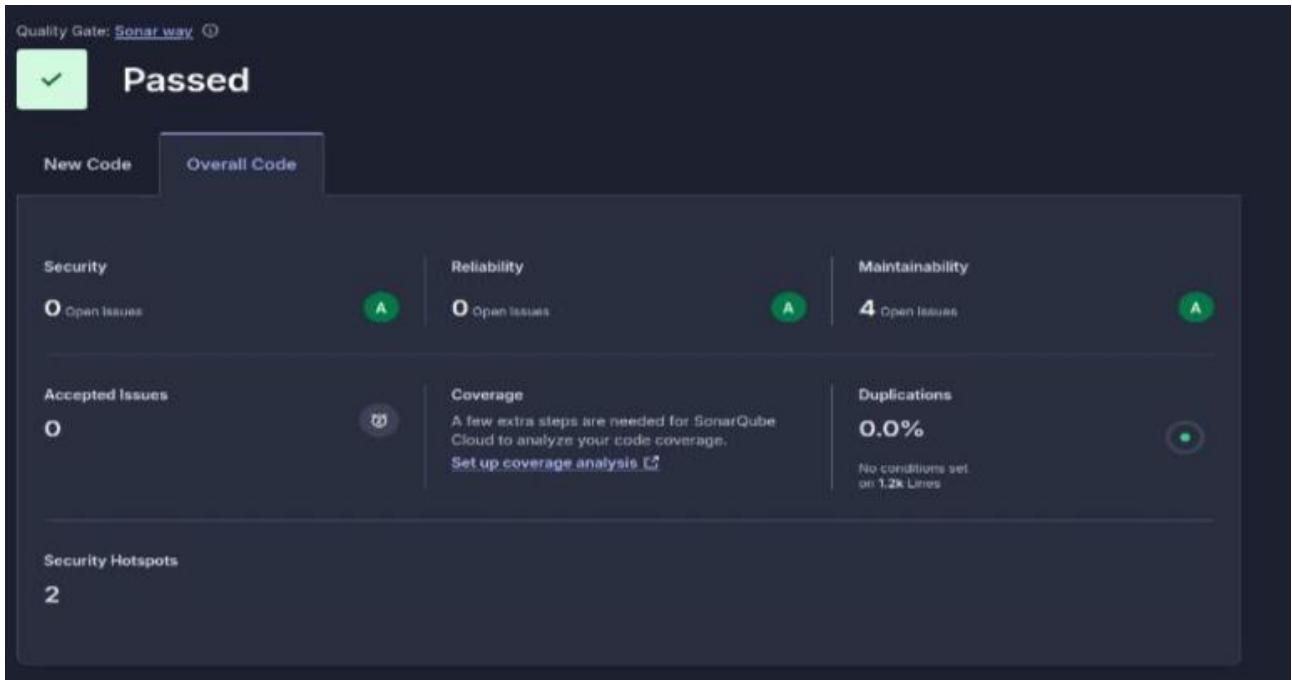
name	instruction	branch	complexity	line	method	class
club.nullbyte3.auction	M: 20 C: 244 92%	M: 2 C: 6 75%	M: 5 C: 16 76%	M: 7 C: 44 86%	M: 3 C: 14 82%	M: 0 C: 2 100%
club.nullbyte3.auction.db	M: 971 C: 170 15%	M: 220 C: 0 0%	M: 141 C: 39 22%	M: 5 C: 25 83%	M: 31 C: 39 56%	M: 0 C: 4 100%
club.nullbyte3.auction.impl	M: 763 C: 706 48%	M: 70 C: 33 32%	M: 68 C: 40 37%	M: 212 C: 193 48%	M: 21 C: 35 63%	M: 0 C: 7 100%
club.nullbyte3.auction.websocket	M: 476 C: 0 0%	M: 82 C: 0 0%	M: 80 C: 0 0%	M: 18 C: 0 0%	M: 39 C: 0 0%	M: 4 C: 0 0%

Kuva 3 Jacoco coverage report



Kuva 4 SonarQube for frontend

The reliability issues are from tailwind rules that SonarQube clouds default quality profile doesn't understand that would need a subscription to change.



Kuva 5 SonarQube for backend

We did not find any issues or bugs in the code.

## Heuristic evaluation

No	Heuristic	Description of the issue	Screenshot	Severity	Suggested improvement
1	H1-1: Simple & natural dialog	"Bid increment" may be a confusing term		1	Add a help dialog on it or change to better term
2	H1-2: Speak the users' language	Items are added through My Profile page		1	Make separate page for item adding
3	H1-3: Minimize users' memory load	No highlight on current page in Navbar		1	Add highlights
4	H1-4: Consistency	Add item page is called My Profile and Start Selling in different places		1	Ref. to H1-1 and change naming to be consistent

5	H1-5: Feedback	Adding item page doesn't reset on applying item which may lead to confusion		1	Reset the fields on adding an item
6	H1-6: Clearly marked exits	No clear indication on auction ending		1	Add a better indicator that auction has ended to all users(currently just winner)
7	H1-7: Shortcuts	Have to use mouse to bid		0	make enter or space work on bidding(confirmation window?)
8	H1-8: Precise & constructive error messages	No error messaging if the backend is down		2	Add appropriate error messaging
9	H1-9: Prevent errors	Users can attempt to add any file to item image		1	disable adding any file and change to only supported formats
10	H1-10: Help and documentation	Instructions on receiving item etc.		1	Expand support page. (Email/more instructions)

## Acceptance Test

Test conducted via manual testing by Teemu Erkkilä on 2.12.2025

ID	Matching Criteria	Test Scenario	Test steps	Expected result	Test Result
1	1	Create account	1. Open login page 2. Enter username 3. Enter password 4. Click create account	User has created an account and is logged in	Pass
2	1	Login	1. Open login page 2. Enter username 3. Enter password 4. Click login	User has logged in	Pass

3	2abc	View current auction	1. Open auction page	User sees item details, bidding information and remaining time	Pass
4	3abc	Place bid	1. Open auction page 2. Place bid	User sees their bid is highest and gets notified when they are outbid or auction ends and they win	Pass
5	4a	Create auction	1. Go to profile page 2. Set item details 3. Choose picture 4. Click add item	User gets notified of successful creation and item is added to auction queue	Pass
6	5a	Item added (empty queue)	1. New item is added and queue is empty	Item appears immediately in auction page	Pass
7	5b	Item added (non-empty queue)	1. New item is added and queue is not empty	Item appears in auction page once it's place in the queue is reached	Pass
8	5	Auction end (more items in queue)	1. Auction ends with more items in queue	Next item from queue starts it's auction	Pass
9	7	Bidding latency	1. Users bid on auction	Bid propagates to all users within 250ms(locally)	Pass

## Documentation updates

We did not see the need to make any changes to system architecture.

No updates to coding standards since we've used a formatter on the frontend from the beginning and backend code is also clean and uniform.

## Future plans

No major changes since the project is wrapping up.

Finalize documentation including:

- Finalize GitHub readme to be a up to date and a fully functional guide to using the project

- Also add pictures of usecase diagrams and other appropriate diagrams to readme
- Add javaDoc documentation
- Add any missing diagrams to the project (deployment diagram?)
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