Sprint 5 Review

Project Code Defenders - Robo Tournament Team Codebenders Sprint retrospective







Agenda

- Our Team
- Development Progress
- Integration and Unit Tests progress
- Acceptance Tests Plan
- Communication with the Customer
- Product Backlog
- Overall Progress Review
 - Sprint burndown chart
 - Comparison with previous sprints
 - Competence matrix
- Sprint 5 verdict
- Sprint 5 retrospective







Frontend

Product Owner

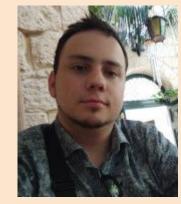


Fanny Delnondedieu



Fabio Patella

Scrum Master



Dominik Brdar



Hrvoje Rom



Simone Mezzaro



Riccardo Nava



Testers

Andrea Restelli







Backend

Development progress

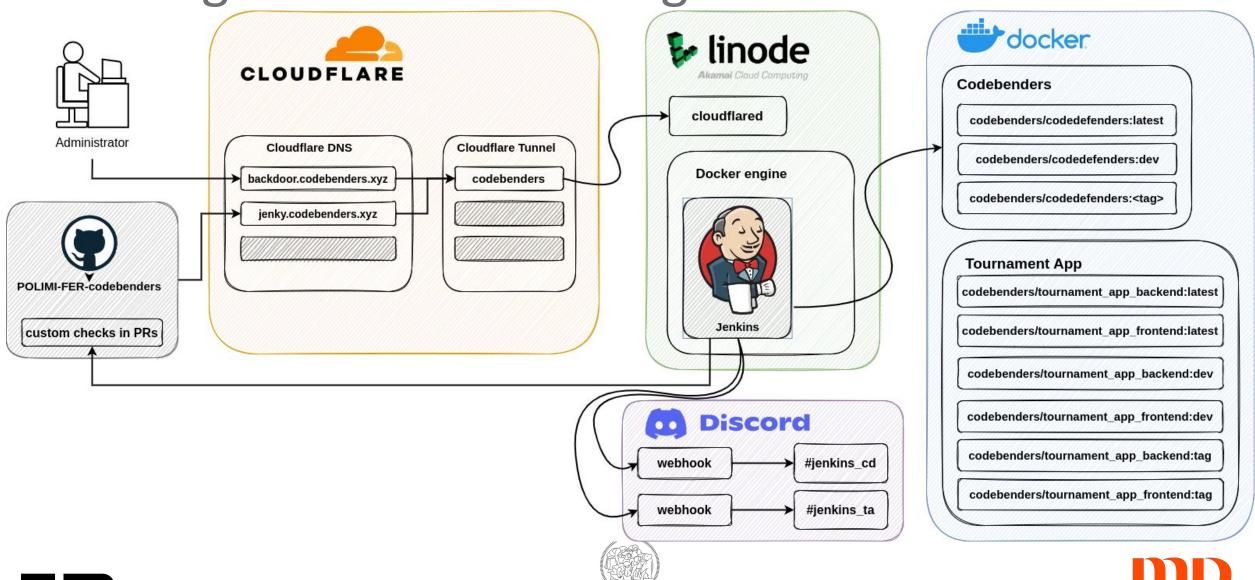
- We completed remaining functionalities and details of the tournament application
 - Integrated Join Team and Tournament Ending functionalities
 - Added buttons and timers on CodeDefenders overlay
 - Improved user interface and fixed some bugs
- We implemented the streaming component
- We didn't manage to complete bots API. They will be addressed in sprint 6
- Some bug fixes are also left for the last sprint







Testing Infrastructure Diagram



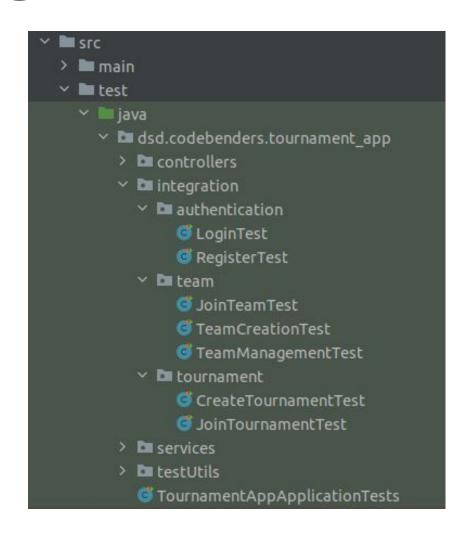




Integration and Unit Tests Progress

Integration tests

- testing application backend as a single unit
- calling API with predefined values and comparing expected and actual output









Integration and Unit Tests Progress

tournament_app

Element	Missed Instructions >	Cov. \$	Missed Branches •	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods *	Missed *	Classes
dsd.codebenders.tournament_app.services		66%		51%	113	236	209	642	39	119	0	12
dsd.codebenders.tournament_app.controllers		43%		40%	72	112	137	266	25	52	0	9
dsd.codebenders.tournament_app.tasks	=	29%	=	7%	16	24	62	101	4	11	0	5
dsd.codebenders.tournament_app.entities		74%		65%	45	187	67	314	40	177	1	14
dsd.codebenders.tournament_app.responses	I	40%		n/a	26	33	38	62	26	33	0	3
dsd.codebenders.tournament_app.entities.score	1	42%		n/a	23	37	24	42	23	37	2	11
dsd.codebenders.tournament_app.security		83%	=	38%	9	32	11	81	0	23	0	6
dsd.codebenders.tournament_app.requests	•	78%		n/a	13	51	20	83	13	51	2	13
dsd.codebenders.tournament_app.errors	1	56%		n/a	9	20	15	32	9	20	4	11
dsd.codebenders.tournament_app.interceptors	1	0%	1	0%	5	5	8	8	3	3	1	1
dsd.codebenders.tournament_app.entities.utils	I	81%		n/a	1	8	2	16	1	8	1	8
dsd.codebenders.tournament_app.entities.streaming	_	89%		n/a	7	32	13	64	7	32	0	4
dsd.codebenders.tournament_app	1	88%	1	100%	2	12	5	38	2	11	0	3
dsd.codebenders.tournament_app.config	1	87%		50%	1	10	1	19	0	9	0	3
dsd.codebenders.tournament_app.utils	•	97%	1	100%	1	8	1	25	1	7	0	2
dsd.codebenders.tournament_app.serializers	I	100%		n/a	0	13	0	36	0	13	0	4
Total	2.727 of 7.610	64%	229 of 422	45%	343	820	613	1.829	193	606	11	109







Integration and Unit Tests Progress

dsd.codebenders.tournament_app.services

Element	Missed Instructions >	Cov.	Missed Branches •	Cov.	Missed	Cxty	Missed =	Lines	Missed	Methods	Missed	Classes
<u> TournamentService</u>		53%		36%	40	62	78	164	16	33	0	1
		57%	- Marie	20%	27	43	47	124	10	24	0	1
		27%		25%	14	20	37	54	5	8	0	1
<u> InvitationService</u>		57%		50%	15	22	17	49	6	11	0	1
<u> PlayerService</u>	-	71%		35%	6	18	9	28	1	11	0	1
○ ClassService		70%	1	50%	1	4	9	33	0	3	0	1
<u>StreamingService</u>		93%		76%	8	21	8	67	0	4	0	1
☐ TournamentSchedulerService		89%		83%	1	5	4	25	0	2	0	1
<u> TeamService</u>		98%		100%	1	31	0	80	1	13	0	1
© CDPlayerService	1	100%		n/a	0	5	0	8	0	5	0	1
© CDGameClassService	1	100%		n/a	0	3	0	6	0	3	0	1
	1	100%		n/a	0	2	0	4	0	2	0	1
Total	1.060 of 3.146	66%	111 of 228	51%	113	236	209	642	39	119	0	12

dsd.codebenders.tournament_app.controllers

Element	Missed Instructions +	Cov. \$	Missed Branches		Missed	Cxty	Missed *	Lines	Missed	Methods	Missed *	Classes
MatchController		6%		0%	10	11	38	44	5	6	0	1
		54%		53%	23	32	31	72	3	6	0	1
		7%		0%	16	17	31	35	6	7	0	1
	=	12%	=	0%	3	4	9	12	1	2	0	1
InvitationController		55%	=	0%	4	8	9	21	2	6	0	1
AuthenticationController		82%		81%	6	19	7	36	2	8	0	1
<u> TeamController</u>		77%		37%	6	14	6	31	2	10	0	1
	=	33%		n/a	3	4	5	10	3	4	0	1
PlayerController	1	71%		n/a	1	3	1	5	1	3	0	1
Total	669 of 1.184	43%	71 of 120	40%	72	112	137	266	25	52	0	9





Acceptance Tests Plan

- We listed all the actions that can be performed in our application
 - Each action maps one or more requirements by the customer and is covered by one specific acceptance test
- We plan to go through all the tests together with our customer to verify that they are successful and that the behavior of the application is the one required by him
- Finally, the customer will express whether the product we implemented meets all his needs or not







Communication with the customer

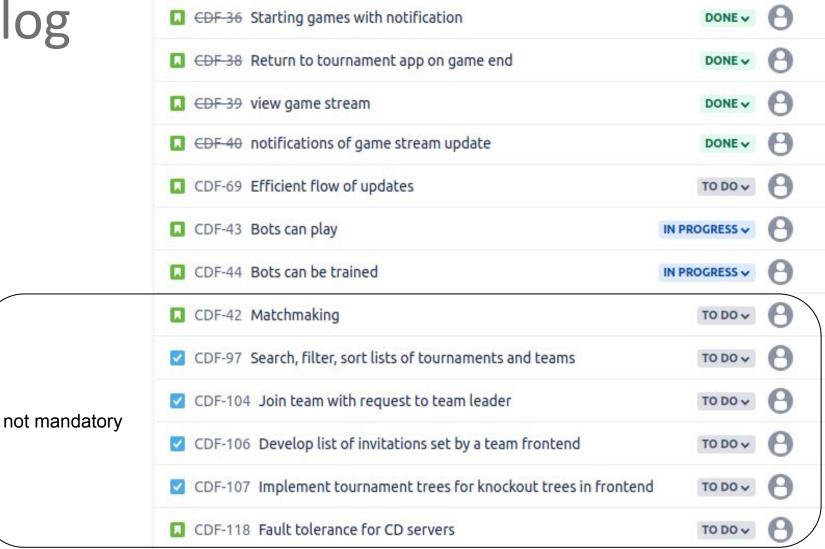
- We had a meeting with the customer near the end of the sprint
 - We presented our plan for acceptance testing, and customer agreed with it
 - We showed a demo of the streaming component. The customer was satisfied with it
- We agreed to have one last meeting during the next sprint to present the final project and go through the acceptance tests together







Product Backlog









Detailed Functionalities of current MVP

- Authentication: login and registration
- Team:
 - Create team
 - Join team
 - Invite other players
 - Kick team member
 - Manage team
- Game streaming

Tournament

- Create tournament
- Display tournaments
- Join tournament
- Start tournament
- Progress through the tournament
- Tournament ending

Game

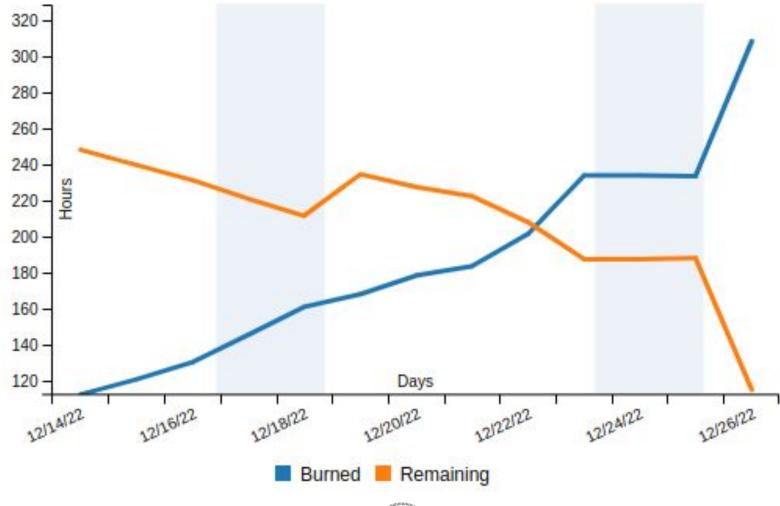
- Start game
- Play game on CodeDefenders







Sprint 5 Burndown Chart









Comparison with Previous Sprints

	Time spent on meetings	Development
Sprint 0	32h 40min	_
Sprint 1	54h 50min	97.59 h
Sprint 2	54h 15min	141 h
Sprint 3	45h 35min	163 h
Sprint 4	38h 50min	167.67 h
Sprint 5	25h 40min	134.75 h









Sprint comparison





Development Hours Spent by Each Team Member

	Andrea	Dominik	Fabio	Fanny	Hrvoje	Riccardo	Simone
Sprint 1	12h 40m	16h 10m	17h	11h 45m	13h	11h 30m	15h 30m
Sprint 2	24h 30m	18h	22h	12h	14h	30h	20h 30m
Sprint 3	18h	10h 30m	34h	15h 30m	19h	39h	27h
Sprint 4	15h 45m	15h	31h 9m	20h 30m	17h	35h 15m	33h
Sprint 5	12h	15h 30m	17h	16h 30m	26h 30m	29h 45m	17h 30m







Competence Matrix

Name of the team member	Communication skills	Programming	Writing documentation	Agile process
Fanny	8	7	6	8
Dominik	7	7	6.5	8
Hrvoje	6->7	5->6	8	4->5
Andrea	8	6	6	5
Fabio	6	8	7	4
Riccardo	5	8	7	5
Simone	4.5	8.5	6	5

^{*} skills are ranked 0-10 (0 meaning no skill at all, and 10 meaning excellent)







Sprint 5 Verdict

Progress on integration and unit testing for tournament application

Defined plan for acceptance tests

Refined tournament application and completed streaming component!

We agree that Sprint 5 was successful







Sprint 5 retrospective

What worked well?

What could be improved?

What will we commit to doing in the next Sprint?

Scrum Team members make actionable commitments







What worked well?

- We improved bug tracking
 - GitHub issues are great tool for that
 - The whole team participated actively in discovering and solving bugs
- Progress in testing
 - we managed to do more testing
 - testing infrastructure helped us resolve issues before merging
- Review and pull request
- Communication and organisation are better
- The streaming component, a crucial part of the project, was implemented very quickly
- Customer is happy with our project status







What can be improved

- Try to be more in contact with supervisors
- Revise documentation again to make it better linked and well organised
 - Check if we forgot to document something
 - Explain team decisions
 - Show progress on project process
- Have a better demo with different player as the customer suggested







What we committed to in this sprint?

- Bug reporting and handling
- Availability of testing infrastructure
- Take more time to estimate time/effort/competence needed for tasks







What will we commit to in the next sprint?

- Revise documentation
- Prepare report for SCORE competition
- Improve demo of our final product
- Address as many bugs as possible
- Continue to improve UI

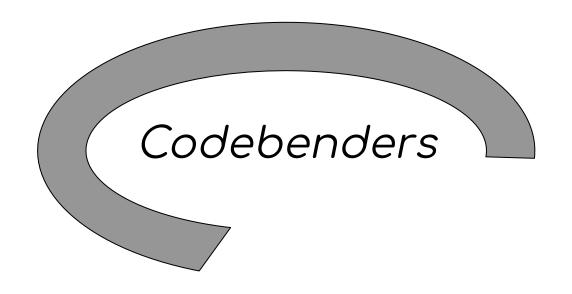






Thank you all for attending

Questions?



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