

Project Name	EMBark
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos-ss2021-emba-service
GitHub kanban board (project)	https://github.com/amosproj/amos-ss2021-emba-service/projects/1
Team T-shirt (white)	https://www.shirtinator.de/loadBasket/CLbKrKai_Fe
Team T-shirt (black) (men)	https://www.shirtinator.de/loadBasket/C8wrNC2gQhA
Team T-shirt (black) (women)	https://www.shirtinator.de/en/loadBasket/OCuYnsZJW1-
Additional materials	...

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Learning objectives: Ensure all team members understand the objective. Continuous Improvement of the needed skill set e.g. coding skill, social skills Interpersonal relationship objectives: Meeting all team members with respect and create a relaxed but object focused atmosphere Functional objectives: Time and skill efficient split of tasks and working. Provide a user-friendly and functional web service of e-m-b-a as a final product.

Goals	
Meeting norms	<p>Team is meeting on Wednesdays (mandatory) for Sprint session.</p> <p>We meet on Fridays (optional) to have a follow-up of the assigned tasks.</p> <p>We also meet on Mondays for final review before the next sprint. Additional meeting timings is 4:30 PM on Fri and Mon.</p>
Working norms	<p>Decisions should be made unanimously.</p> <p>If a teammember has a problem with a decision, everybody should try to find a compromise.</p> <p>Criticism should always be formulated constructive and should always be met with understanding.</p> <p>Of course when team members face trouble or bigger tasks, the team is expected to collaborate and support the individuals.</p>
Coordination norms	<p>The current Scrum Master is responsible for a smooth process of the general meeting. He is expected to fill the role of the Moderator, to keep meetings on track and lead through the agenda and also the role of the Mediator, to resolve disagreements among the team. The Release Manager leads through the developed/technical part of sprint.</p>
Communication norms	<p>Apart from lecture/meetings, the team communicates via dedicated Slack channel. Slack should be checked regularly, response time should not exceed a day. In case of urgent matters there's also the option to call the concerning members.</p> <p>On general task like reviewing a PR there is a more relaxed deadline, unless it's end of sprint.</p> <p>Personal Communication, especially topics regarding urgent matters, is always possible.</p>
Consideration norms	<p>Separate communications are allowed if there is no information withheld from the team. Disagreements between teams to be handled in presence of the Scrum master. Priority would be given to practices that have greater impact on the final outcome and the team will strive to achieve a compromise that fits all.</p>
Cont. improvement norms	<ul style="list-style-type: none"> • Team's progress is tracked by how efficiently the team is able to break down problems into tasks and how good is the team with story-points estimation, through velocity charts etc • Rate others' work: Good code practices. Proper test cases of the code engineers put in. • Yes in case of a disagreement during a review or implementation discussion.
Rewards	<p>Enjoy with a beer and pat-on-the back! Nominate the next RM.</p>
Sanctions	<p>For acceptable excuses, it is encouraged that team members notify beforehand any problems they are facing and other team members would pitch in to assist. Recurring laxity in commitment is not warranted and the reasons have to be communicated across the board in this instance. There is a sanctions catalogue: each 30sec to late to meetings = 1 Push Up (recorded on video)</p>

General Norms

Always be kind, Respect each other, Don't be too shy to talk openly about problems. Racism and Sexism is intolerable. Render assistance to others if necessary.

Signature

Bitan Saha, Jaromir Vogt, Maximilian Wagner, Ashutosh Singh, Vaishnavi Umesh Ravi Chandra Achanta, Mani Kumar Vanteru, Vamsi Krishna Annavarapu

#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Scrum Master	Release Manager
1	2021-04-14		Yes	Bitan/ Krishna	Everyone else	N/A	N/A
2	2021-04-21		Yes	Bitan/ Krishna	Everyone else	Maximilian	Mani Kumar
3	2021-04-28		Yes	Bitan/ Krishna	Everyone else	Jaromir	Ashutosh
4	2021-05-05			Bitan/ Krishna	Everyone else	Vaishnavi	Ravi Chandra
5	2021-05-12		Yes	Bitan/ Krishna	Everyone else	Ravi Chandra	Maximilian
6	2021-05-19			Bitan/ Krishna	Everyone else	Vamsi Krishna	Ashutosh
7	2021-05-26	Mid-term due	Yes	Bitan/ Krishna	Everyone else	Bitan	Vaishnavi
8	2021-06-02			Bitan/ Krishna	Everyone else	Maximilian	Jaromir
9	2021-06-09			Bitan/ Krishna	Everyone else	Ashutosh	Ravi Chandra
10	2021-06-16		Yes	Bitan/ Krishna	Everyone else	Vaishnavi	Ashutosh
11	2021-06-23			Bitan/ Krishna	Everyone else	Bitan	Ravi Chandra
12	2021-06-30			Bitan/ Krishna	Everyone else	Jaromir	Maximilian
13	2021-07-07		Yes	Bitan/ Krishna	Everyone else	Vamsi Krishna	Maximilian
14	2021-07-14	Demo day!		Bitan/ Krishna	Everyone else	Ravi Chandra	
15	2021-07-21	Retrospective		Bitan/ Krishna	Everyone else		

Product Vision	Project Mission
<p>The long-term goal of EMBA Service is to provide containerized services employing a service backend. A user-friendly web application that uplinks the firmware images and generates a service report. The web UI allows the user to upload images and the generated reports remain embedded for long-term availability. Also, the web UI is capable of handling independent firmware scans while providing service managers with a dashboard overview of the services.</p>	<p>The use of EMBA service will enable the user with an interactive management console for maintaining reports generated for specific firmware images. Multi-user applicability is baked into the UI by containerizing the service backend thus allowing multiple users to simultaneously take advantage of the service thereby speeding up the overall process flow in the organization. Automatic management and retrieval of the generated reports from the service to have an in-depth overview of the project status.</p>

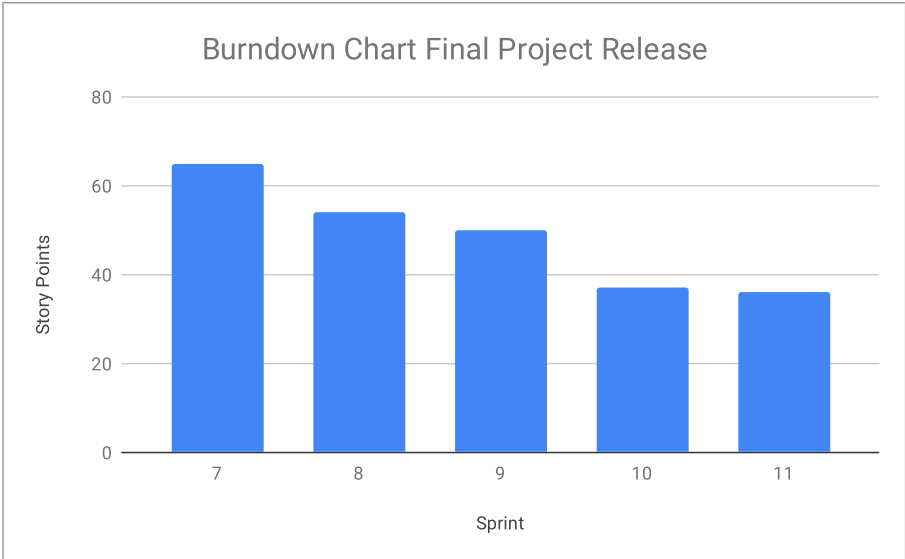
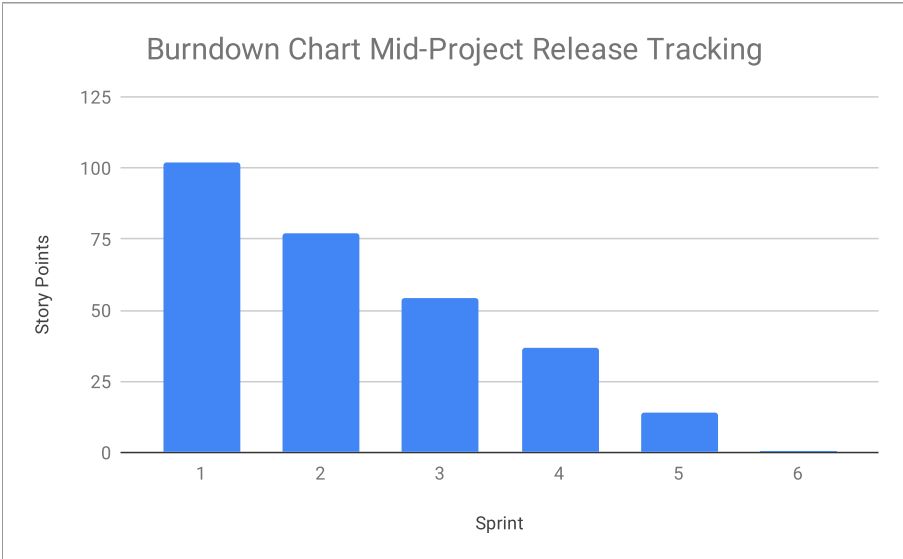
Term	Definition
CVE (Common Vulnerabilities and Exposures)	reference-method for publicly known information-security vulnerabilities and exposures
firmware	Linux based firmware eligible to be analyzed by emba (e.g.: https://eu.dlink.com/de/de/products/dap-1330-n300-wi-fi-range-extender)

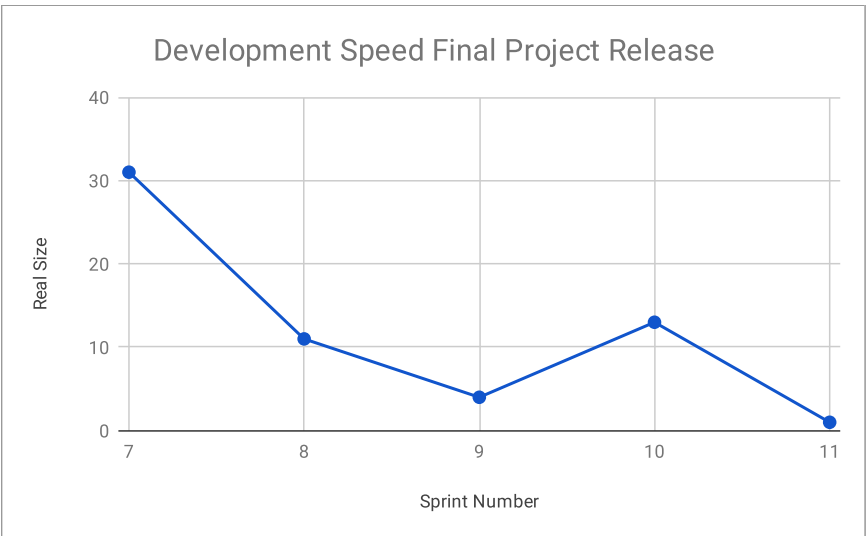
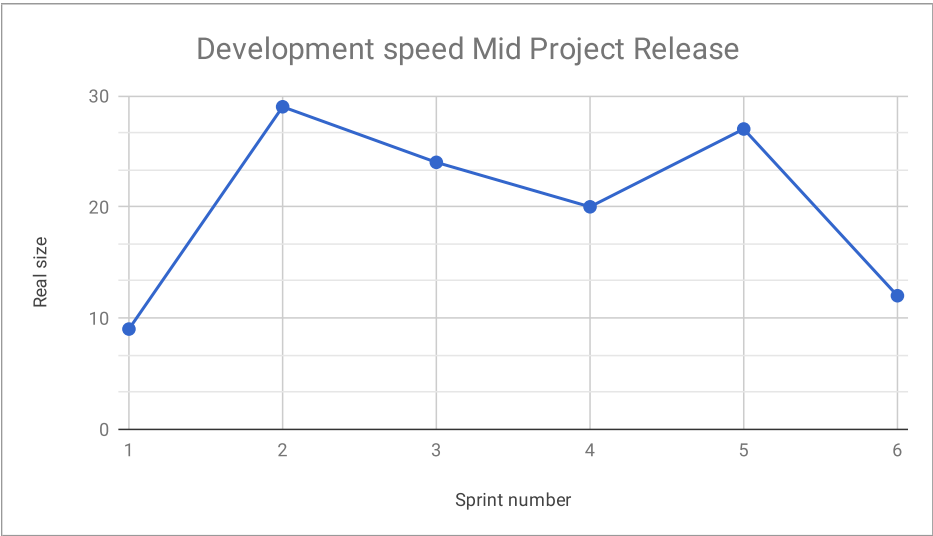
#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
Total					111			111
1	Initial setup				9		9	102
		Getting to know and setup project						
			Information on prior experience	2		2		
			Meeting with industry partner	2		2		
			Additional team meetings	1		1		
			Django or flask	1		1		
			Choice of IDE	1		1		
			Clone client repository	2		2		
2	Fundamentals				25		29	77
		Deliver increment with basic user handling						
			System setup and hands on	3		3		
			Navigation Header	3		3		
			Setup Docker project	3		3		
			Setup Django project	3		5		
			Project Linter and CI setup	3		3		
			Python sub processes for bash connection	3		3		
			Proper EMBA Integration	3		3		
			Freezing python version	1		1		
			Exploring Optimized libraries for sub processes	3		5		
3	Frontend services				23		24	54
		Incremental enhancement						
			Data fields for firmware uploader	3		5		
			Unzip functionality	5		3		
			Saving firmware image	3		3		
			Frontend integration	2		3		
			Websocket communication	5		5		
			ASGI setup	5		5		
4	Backend Services				17		20	37
		Incremental enhancement						
			CSRF cookie	2		5		
			Ziping generated reports	2		2		
			Backend job queue	3		5		
			Progress bar	5		3		
			MongoDB integration	5		5		
5	UI and backend functionalities				23		27	14
		Incremental enhancement						
			Setting up API endpoints	3		3		
			Frontend user login implementation	3		5		
			Processing emba log	3		3		
			Command parser	3		3		
			Emba service dashboard	5		5		
			Integration of datafields in front- and backend	3		5		

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			Database table for authentication	3		3		
6	UI and backend functionalities				14		12	0
		Incremental enhancement						
			Setup remote server	3		2		
			Save flag info	2		2		
			Duplicate file uploads	3		3		
			Queue job from frontend	3		3		
			Image uploader page refresh	3		2		

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			Total		96			96
7	Feature Improvement		Improvement		28		31	65
			Frontend styling	5		8		
			Emba report download from the dashboard	3		3		
			Opening of new html page upon feature selection from dahsboard	5		5		
			Improving service dashboard	5		5		
			Ability to delete firmware images	5		5		
			EMBA service dashboard for multiple containers	5		5		
8	Implementation of features in Dashboard		Incremental enhancement		22		11	54
			User Authentication for uploader	3		3		
			Reporting dashboard functioning	5		5		
			EMBA error handling	3				
			EMBA main dashboard	5				
			Central Dashboard (Aggregated details of all tests) part 1	3				
			Alert box	3		3		
9	Report Generation		Incremental enhancement		8		4	50
			Redis Setup	2		2		
			Search report functionality	3				
			Bin file upload	3		2		
10	Implementation of features in Dashboard		Incremental enhancement		24		13	37
			Real time log streaming	3		3		
			Datatable of reports for dashboard	2		2		
			Backend linking for search bar	3		3		
			System load	5		5		
			View generated reports on dashboard	3				
			Error handling	5				
			Redesign reporting dashboard	3				
11	Implementation of features in Dashboard		Incremental enhancement		14		1	36

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			Bug report	2				
			Discovered issue	1				
			Central dashboard part 2	5				
			Central dashboard part 3	5				
			Requested fix by client	1			1	
			Open container on click of report dashboard					
			Display in Frontend on the main dashboard for resource usage on the server					





Sprint	Status	Source	Impediment	Resolution
	2 Resolved		POs got issues getting a grasp of the architecture. More Input from the SDs on Architecture/Granularity.	Improved the communication between SDs and POs on open questions. Emphasize the importance of standup emails. Everybody is happy to discuss open issues, just ask for assistance.
	2 Resolved		No SD felt responsible for reviewing PRs	SD setting atleast 2 reviewers for PRs
	2 Resolved		Team meetings with floating times, complicate/extend planning for team members	
	3 Resolved	Bitan	see above, its tricky to find a time that works for everyone, excuses for single meetings are no problem but in general we should have a fix time	We found a time slot everybody can work with. (Mon and Fr 4:30 pm) If somebody can't make it, we record our zoom session.
	3 Resolved	Vaishnavi	different time zone so meeting times can be challenging	see above
	Resolved	Ashutosh	product road map for planing purposes	We had a meeting on that on that on friday, but this process is still ongoing
	4 Resolved	Jaromir	User stories to be formulated in a detailed way	Improving the communication between the SD's and PO's in order to formulate better stories knowing the technical aspects.
	4 Resolved	Ashutosh	Everyone to be aware of the documentation by Siemens as well as by us and check for any problems	In progress to understand the documentation of already existing features by the client.
	4 Resolved	Ravi	We have more tasks in product backlog for the SDs to take up once they are done with the tasks	In the last meeting we got a better picture on what has to done and realised about the further tasks enough for everyone to work through the sprint.
	5 Resolved	Maximilian	we could improve the documentation and communicate inside the team	Meet quite often and understand the work and collaborate as a team to complete the tasks
	7 Unsolvable	Jaromir	start work early and finish early.	pick up project speed.
	8 Resolved	Vaishnavi	Ideas for the Dashboard. Scribble for the layout	Lets all of us try to get together for an hour on friday(11/07/2021) to fix this.
	9 Resolved	Jaromir	Proper collaboration due to different commitments.	Fun-Saturday together. We plan on fixing 3-5PM for any collaborative work needed.
	9 Resolved	Max	Indempotency of each feature-branch/PR	Make a branch catering to one feature only. Refrain from using same branch for multiple features. Branch name should be indicative of the feature
	10 Resolved	Vaishnavi	Everyone to attend the meeting within the team on mondays	If you fail to join monday meetings, catch up on meeting recordings. It is encouraged to join on Mondays.

Sprint	Status	Source	Impediment	Resolution

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Code review from peers has been completed and passed <ul style="list-style-type: none">- Adheres to coding guidelines- Commits are not squashed- Code is checked into the repository- Code is fully implemented and commented	Code review passed <ul style="list-style-type: none">- Code is successfully merged onto the master branch after reviewing merge request- Clean and Readable code is passed- Passes Linter & prettier checks before allowing pull request- Branch was checked out locally- Continuous Integration build passing	Application is working on different devices and screen sizes
	Unit tests for backend have been written and are passing	All tests are passing <ul style="list-style-type: none">- Unit tests are passing- Performance tests passed	Project builds without errors
	Manual performance tests on the browser are passing	All known critical bugs are fixed	No open known bugs are existent
	No critical bugs are open		All unit & functional tests are green (for backend)
			Manual performance tests on the browser is successful
			The code in Github is well documented and enough information is provided

Type	Link / reference
Technical Documentation	https://github.com/amosproj/amos-ss2021-emba-service/wiki/Technical_Documentation
Build/deploy documentation	https://github.com/amosproj/amos-ss2021-emba-service/wiki/Build-Deployment_Documentation
User documentation	https://github.com/amosproj/amos-ss2021-emba-service/wiki/User_Documentation

\	Context	Name	Version	License	Comment
1	OS	Docker	20.1	Apache License 2.0	
2	OS	Docker-compose	1.27	Apache License 2.0	
3	OS	Kali Linux	2021.1	GPL-3.0 License	Version depending on emba service
4	Backend Framework	Django	3.2	BSD License	
5	Backend Framework	Channels	3.0.3	BSD License	
6	Backend Framework	Hypercorn	0.11.2	MIT License (MIT)	
7	Database	MongoDB	4.4	Apache License 2.0	Version depending on emba service
8	main	emba	-	GPL-3.0 License	Not versioned since still in development
9	Linting	pycodestyle	2.7.0	MIT License	
10	Testing	pytest	6.2.3	MIT License	
11	Frontend	HTML5		W3C License	
12	Frontend Styling	CSS			
13	Frontend	Bootstrap			
14	Frontend	Fontawesome icons			
15					
16					
17					
18					
19					

Last Name	First Name	Value			
Vogt	Jaromir	5		5.00	OK
Wagner	Maximilian	5			
Singh	Ashutosh	5			
Umesh	Vaishnavi				
Achanta	Ravi Chandra	5		0	No effort
Vanteru	Mani Kumar			1	Minimal effort
				2	Small effort
Saha	Bitan			3	Medium effort
Annavarapu	Vamsi Krishna			5	Large effort
				8	Very large effort
				13	Too large effort