

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 meet 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 theres also the option to call the concerning members.</p> <p>On general task like reviewing a PR there is a more relaxed deadline, unless its end of sprint.</p> <p>Personal Communication, especially topics regarding urgent matters, is always be possible.</p>
Consideration norms	<p>Seperate communications are allowed if there are no information withhold 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	<p>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.</p>
Signature	<p>Bitan Saha, Jaromir Vogt, Maximilian Wagner, Ashutosh Singh, Vaishnavi Umesh Ravi Chandra Achanta, Mani Kumar Vanteru, Vamsi Krishna Annavarapu</p>

#	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	Jaromir	Jaromir
9	2021-06-09			Bitan/ Krishna	Everyone else	Ashutosh	Ravi Chandra
10	2021-06-16		Yes	Bitan/ Krishna	Everyone else	Vaishnavi	Maximilian
11	2021-06-23			Bitan/ Krishna	Everyone else	Bitan	Vaishnavi
12	2021-06-30			Bitan/ Krishna	Everyone else	Maximilian	Jaromir
13	2021-07-07		Yes	Bitan/ Krishna	Everyone else	Vamsi Krishna	Ashutosh
14	2021-07-14	Demo day!		Bitan/ Krishna	Everyone else		
15	2021-07-21	Retrospective		Bitan/ Krishna	Everyone else		

Product Vision

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.

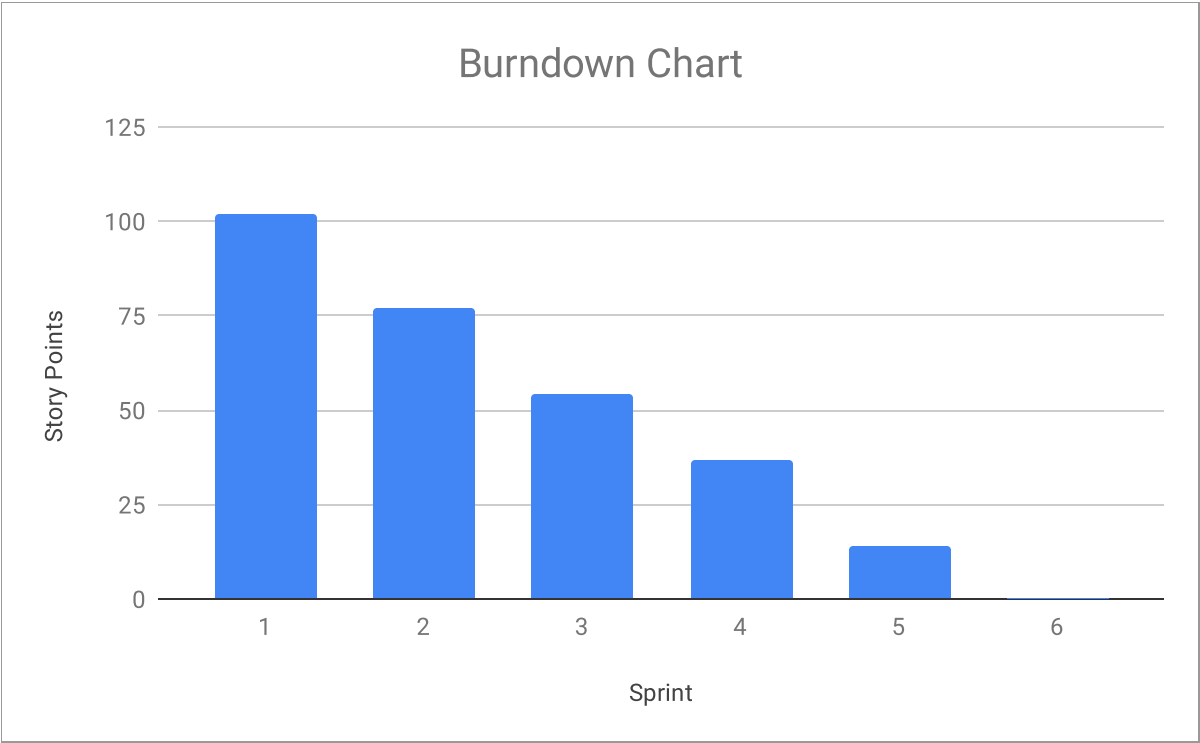
Project Mission

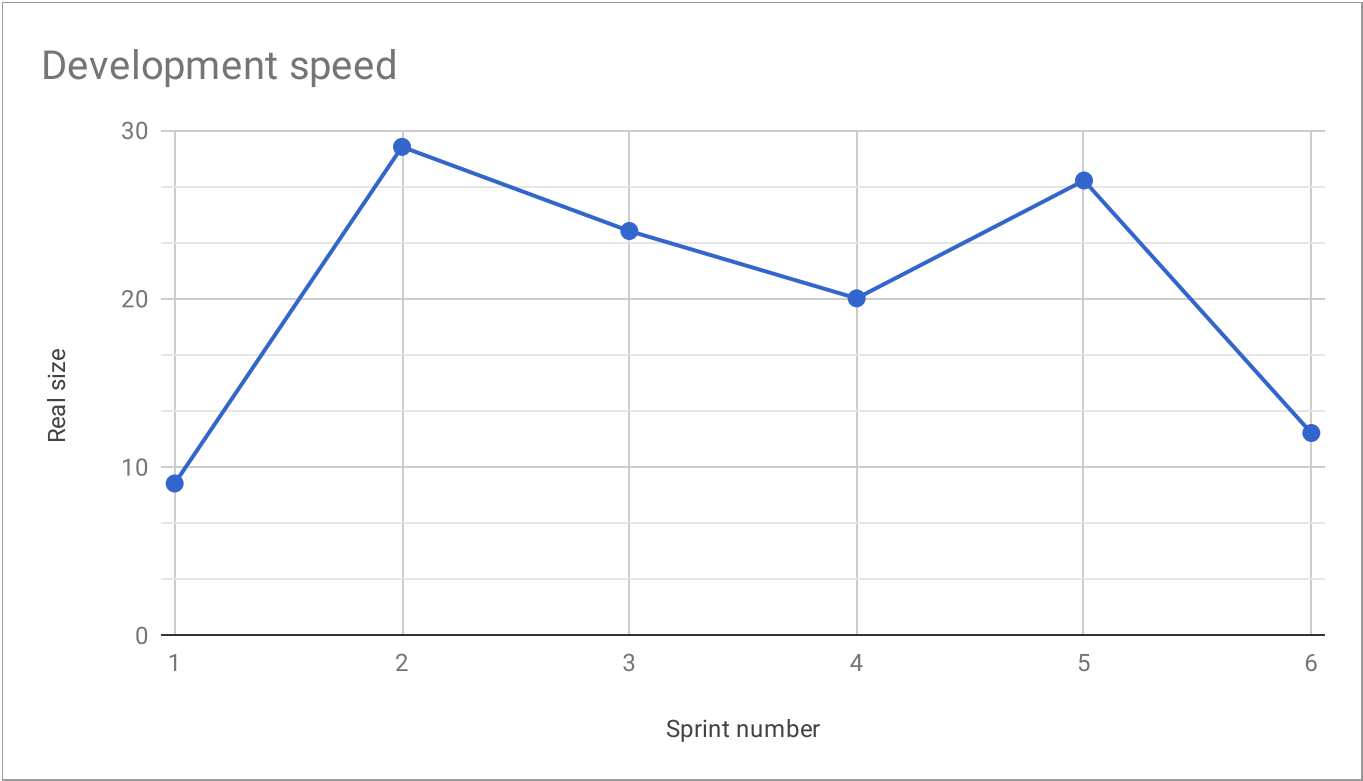
The use of EMBA service will enable the user with an interactive management console for maintaining reports generated for specific firmware images. Multi-user applicability is baked into the UI by containerizing the service backend thus allowing multiple users to simultaneously take advantage of the 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.

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		
			Database table for authentication	3		3		
6	UI and backend functionalities				14		12	0
		Incremental enhancement						
			Setup remote server	3		2		

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			Save flag info	2		2		
			Duplicate file uploads	3		3		
			Queue job from frontend	3		3		
			Submit form refresh	3		2		





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7	Feature Improvement							
		Improvement						
			Alert box					
			Real time data reading					
			Image uploader page refresh					
			Ability to delete firmware image					
8	Implementation of features in Dashboard							
		Incremental enhancement						
			Central Dashboard part 1					
			Central Dashboard part 2					
			Central Dashboard part 3					
9	Report Generation							
		Incremental enhancement						
			Reporting dashboard download and search reports					
			Reporting dashboard functioning					
			Redesign of EMBA report					

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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	Code review passed	
	- Adheres to coding guidelines	- Code is successfully merged onto the master branch after reviewing merge request	
	- Commits are not squashed	- Clean and Readable code is passed	
	- Code is checked into the repository	- Passes Linter & prettier checks before allowing pull request	
	- Code is fully implemented and commented	- Branch was checked out locally	Application is working on different devices and screen sizes
		- Continuous Integration build passing	
	Unit tests for backend have been written and are passing	All tests are passing	Project builds without errors
	Manual performance tests on the browser are passing	- Unit tests are passing	No open known bugs are existent
	No critical bugs are open	- Performance tests passed	All unit & functional tests are green (for backend)
		All known critical bugs are fixed	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			
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