Project Name	Backup Cluster Manager SEP
Online team meeting	https://tu-berlin.zoom-x.de/j/66460442542?pwd=6JDdHFzvrTj3bJokdNJSYxHA3b8F6r.1
Production system (if any)	TBD
Test system (if any)	TBD
GitHub repository	https://github.com/amosproj/amos2025ws02-backup-cluster-manager
GitHub feature board	https://github.com/orgs/amosproj/projects/90
GitHub imp-squared backlog	https://github.com/orgs/amosproj/projects/94
Team T-shirt (white)	https://www.shirtinator.de/s/WGBu8LkSRqOJZe-LDXqisw
Team T-shirt (black)	https://www.shirtinator.de/s/jG2py-QWSDeg3IraRTb-bQ
Additional materials	
Discord	https://discord.gg/mhFBrsTx
Figma Link Website	https://www.figma.com/design/kLihICBMvBVKCodv1OlY4Y/Website-Design?m=auto&t=UItPz3hhwCtSgsc5-1
Team maling list	oss-amos-proj2@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Wysokinska	Xemena	xenia1w	xenia.wysokinska@gmail.com
Ostrizki	Jan	Stringrimm	jan.ostrizki@fau.de
Raju	Robin Jose	robinrj6	robin.jose.raju@fau.de
Nogu	Ervin	ervinn09	ervin.nogu@campus.tu-berlin.de
Krüger	Landolf	krueger-hash	l.krueger.1@campus.tu-berlin.de
Tröger	Nicolas	fe27hity	nico.troeger@fau.de
Killer	Hans	HansKiller-TH	hanskiller@web.de
Schulze	Levin	p0d3x	

#	Meeting Day	Product Owner		Software Developer	Release Manager	Scrum Master	Comment
		Review	Planning				
0	2025-10-15	-	-	Everyone else	-	Xemena Wysokinska	First Meeting
1	2025-10-22	Jan Ostrizki	Levin Schulze	Everyone else	-	Xemena Wysokinska	
2	2025-10-29	Levin Schulze	Jan Ostrizki	Everyone else	Nicolas Tröger	Xemena Wysokinska	
3	2025-11-05	Jan Ostrizki	Levin Schulze	Everyone else	Hans Killer	Xemena Wysokinska	Build Process Review
4	2025-11-12	Levin Schulze	Jan Ostrizki	Everyone else	Robin Rose Raju	Xemena Wysokinska	
5	2025-11-19	Jan Ostrizki	Levin Schulze	Everyone else	Ervin Nogu	Xemena Wysokinska	
6	2025-11-26	Levin Schulze	Jan Ostrizki	Everyone else	Landolf Krüger	Xemena Wysokinska	Mid-term due
7	2025-12-03	Jan Ostrizki	Levin Schulze	Everyone else	Nicolas Tröger	Xemena Wysokinska	
8	2025-12-10	Levin Schulze	Jan Ostrizki	Everyone else	Hans Killer	Xemena Wysokinska	
9	2025-12-17	Jan Ostrizki	Levin Schulze	Everyone else	Robin Rose Raju	Xemena Wysokinska	
10	2026-01-07	Levin Schulze	Jan Ostrizki	Everyone else	Ervin Nogu	Xemena Wysokinska	
11	2026-01-14	Jan Ostrizki	Levin Schulze	Everyone else	Landolf Krüger	Xemena Wysokinska	
12	2026-01-21	Levin Schulze	Jan Ostrizki	Everyone else	Nicolas Tröger	Xemena Wysokinska	
13	2026-01-28	Jan Ostrizki	Levin Schulze	Everyone else	Hans Killer	Xemena Wysokinska	
14	2026-02-04	Levin Schulze	Jan Ostrizki	Everyone else	Robin Rose Raju	Xemena Wysokinska	Demo day!

Product owners, software developers, and Scurm Master are set and ideally don't change over time; the critical part is the Release Manager role you need to define here

Goals	
	Fulfill the needs of our customer (SEP) Working Prototype Good team experience Learn more/Gaining experience about working agile Sharing knowledge among each other Transparent culture & good communication Learn how to open-source
Meeting norms	
	Weeklies: At 12:30 on Wednesday on Zoom (https://tu-berlin.zoom-x.de/j/66460442542?pwd=6JDdHFzvrTj3bJokdNJSYxHA3b8F6r.1) 90 mins. Weekly/Bi-Weekly Sync with SEP On time, give notice if someone can't make/with delay Raising hands for better communication flow in bigger meetings like e.g. weekly
Working norms	**Working norms**
	Developers have a cutoff day a before at noon Revert if MR if it breaks other code and if there is no time for a fix Use a CI build/test pipeline MR with random reviewer (preferably a nominated one)
Coordination norms	
	Coordination over Discord (https://discord.gg/mhFBrsTx) Inform others if you can't work temporarily
Communication norms	
	Communication over mainly on Discord, Email as emergency/backup option Weekly meeting over Zoom Use webcams as possible Special channels for different groups and topics
Consideration norms	
	Polite, supportive, respectful, forward, formal & constructive communication English if at least one nonnative speaker present
Cont. improvement norms	
	Try to help each other Actional item in retro to improve the team Adapt CI and work along it. Do not try to bypass it. Additional channel on Discord if someone needs help
Rewards	
	Filters on Zoom (SFW!!) Small tokens
Sanctions	

	Not allowed to use video filters or wear a weird hat Review one additional PR Problems require intervention worst case with professor
Signatures	
Scrum Master	Xemena Wysokinska
Product owner	Levin Schulze
Product owner	Jan Ostrizki
Software developer	Robin Jose Raju
Software developer	Ervin Nogu
Software developer	Landolf Krüger
Software developer	Nicolas Tröger
Software developer	Hans Killer
Software developer	

Product Vision	Project Mission
The Backup Cluster Manager software introduces a distributed approach into a system currently consisting of unconnected nodes . The software should demonstrate the benefits of a distributed approach, and should mirror real life use-cases and scenarios, and the effectiveness of using this approach. By using springboot, it can be easily integrated, and used as basis for enterprise projects while offering a user friendly UI built with Angular & TailwindCSS.	Creating an MVP for our industry partner which implements an alternative approach for managing distributed nodes. It offers an UI for editing and overview data from nodes as well as users and their permissions. The backend simulates backup nodes and how nodes will interact with each other. Frontend communicates with the backend to get/edit/delete data such as users, permissions as well as backups & cluster information.

Term	Definition
Cluster Manager	Supervisor instance that manages a set of SEP Sesam server nodes, handles registration of nodes, manipulation and synchronization of e.g. users, groups, and permissions or other meta data. Provides a REST interface for the Frontend and proxies requests to other nodes
SEP Sesam	SEP's Backup and Recovery software product, backups and restores are managed by a SEP Sesam Server
SEP Sesam Server Node, Node	Instance of SEP Sesam Server which shall be part of the cluster
Cluster Mode	Configuration flag on a node, indicating the node should join a cluster. In this mode, permissions and users shall be managed by the cluster manager
Supervisor Instance	Synonymous with Cluster Manager
Node Registration	Process of adding a node to a cluster
User / Group	Authenticated principals that can be created, modified and assigned permissions.
Client	A system that should be backed up by an SEP Sesam Server (e.g. a person's laptop computer)
Frontend, FE	The primary web UI, which runs in the browser and communicates with the CM's REST endpoints (directly, or via proxy, LB, etc TBD)
Synchronization Process	The mechanism of propagating information, such as users, groups, or permissions to downstream nodes
Proxy Functionality	The ability of issuing requests or listing data from a node via the CM's REST API
Backend, BE	Application / Code for the Cluster Manager and Simulated Server Node
Superuser	System user who has all permissions and can create new admins
Administrator	System users who can do and see everything except create/remove admins
Operator	System users who can see backups in the FE but not modify anything (read-only user)
Restore User	System users who can restore backups, no access to user management
Backup User	System users who can create backups, no access to user management

Sprint #	Sprint goal
1	None
2	None
3	None
4	Working MVP with FE, CM and 2 Nodes
5	Working MVP with FE, CM and 2 Nodes
6	Mid-Project Release
7	Sprint 7 Goal
8	Sprint 8 Goal
9	Sprint 9 Goal
10	Sprint 10 Goal
11	Sprint 11 Goal
12	Sprint 12 Goal
13	Sprint 13 Goal
14	Sprint 14 Goal
15	Sprint 15 Goal

Sprint #	Story Points Realized
1	0
2	13
3	14
4	20
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
	PLEASE CREATE THE VELOCITY CHART ON A NEW TAB USING THE DATA FROM THIS TAB

Sprint	Average Speed
2	13
3	13.5
4	15.66666667
5	15.66666667
6	15.66666667
7	15.66666667
8	15.66666667
9	15.66666667
10	15.66666667
11	15.66666667
12	15.66666667
13	15.66666667
14	15.66666667
15	15.66666667

Velocity Chart

■ Story Points Realized   ▬ Average Speed
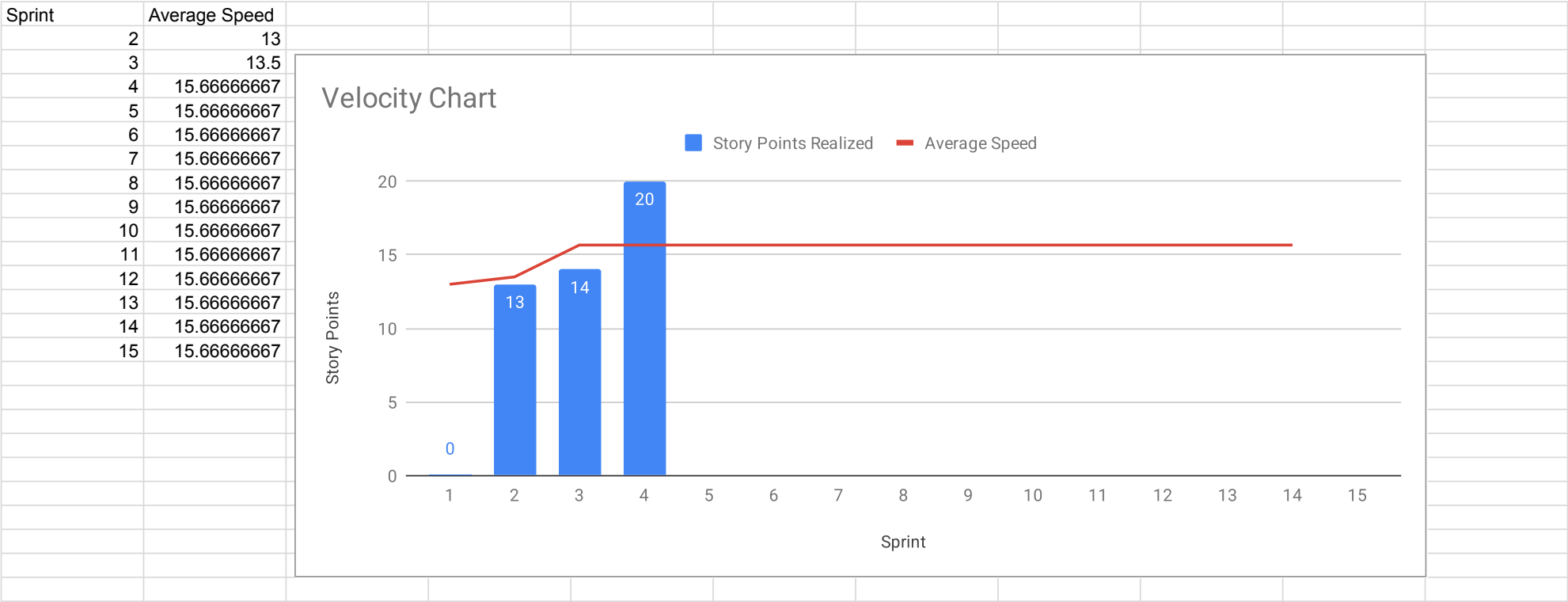
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total			125	125		
Sprints						
1	**None**		1	125	0	125
2	**None**		15	124	13	125
3	**None**		18	109	14	112
4	**Working MVP with FE, CM and 2 Nodes**		21	91	20	98
5	**Working MVP with FE, CM and 2 Nodes**		41	70	0	78
6	**Mid-Project Release**		29	29	0	78
7						
Features						
1	**None**		0		0	
		Deciding our Tshirt design	1		0	
		Deciding our team logo	1		0	
2	**None**					
		Deciding our Tshirt design	1		1	
		Setup Build Process for Backend	3		2	
		Setup Basic Angular Project (Frontend)	2		2	
		Create first architecture draft	3		3	
		Setup Build Process For Frontend	3		2	
		Create Basic Spring Boot Project	2		2	
		Deciding our team logo	1		1	
3	**None**					
		Define entities for DBs	3		3	
		Create Docker Compose Configuration	3		2	
		Setup Database and Integrate it	2		1	
		Setup Dockerfile (Backend)	3		2	
		Create Basic UI Layout	3		2	
		Create Overview page	3		3	
		Add functionallity to sidebar	1		1	
		Create multiple pages for Router Outlet	3		2	
4	**Working MVP with FE, CM and 2 Nodes**					

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		Backend: Create Cluster Manager	3		3	
		Frontend: Create Node Tab	3		3	
		Backend: Get Nodes API	3		3	
		Backend: Get Backups API	3		3	
		Frontend: Create Backups Tab	3		3	
		Frontend: Header moving while scrolling	0		0	
		Add Jacoco To Build And Integrate As Badge	3		2	
		Backend: Create User Node	3		3	
		Create Documentation	2		0	
		Create a test setup with 3 nodes	3		0	
		Backend: Create Database	3		0	
5	**Working MVP with FE, CM and 2 Nodes**					
		Create Documentation	2			
		Create a test setup with 3 nodes	3			
		Backend: Create Database	3			
		Backend: Add Pagination To APIs	3			
		Implement functions for DB	3			
		List Users	3			
		Create / Update / Delete User	3			
		Filter / Sort Backups	3			
		Bug: Main is not building	2			
		Backend: Implement node (un)registration process	5			
		Create Backup	5			
		Delete Backup	3			
		Filter / Sort Nodes	3			
6	**Mid-Project Release**					
		Create Documentation	2			
		Create / Update / Delete User	3			
		Filter / Sort Nodes	3			
		Filter / Sort Backups	3			
		Create Backup	5			
		Delete Backup	3			
		Basic Backup Schedules	5			
		Mock Backup Tasks	5			

Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA FROM THIS TAB				

Burn-Down Chart	
125	15.66666667
109.3333333	15.66666667
93.66666667	15.66666667
78	15.66666667
62.33333333	15.66666667
46.66666667	15.66666667
31	15.66666667

Burn-Down Chart

Legend: ■ Estimated ■ Real ▬ Development Speed

Sprint	Estimated	Real
1	125	125
2	124	125
3	109	112
4	91	98
5	70	78
6	29	78
7		

Y-axis: Story Points (0, 25, 50, 75, 100, 125)
X-axis: Sprint
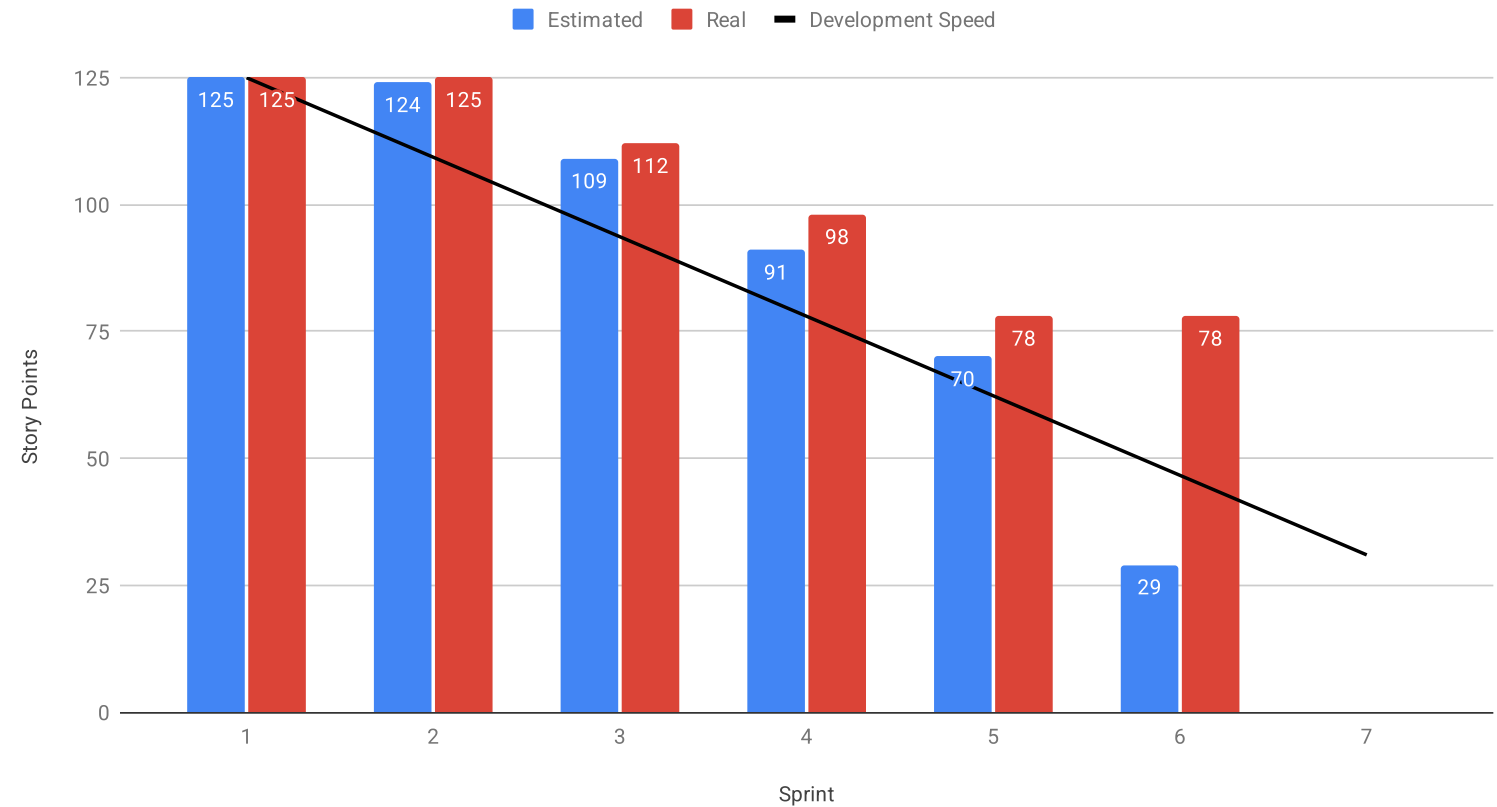
Sprint	Goal	Feature Name	Est. size	Est. remaining	Real size	Real remaining
Release						
Total			0	0		
Sprints						
1			0	0	0	0
2			0	0	0	0
3			0	0	0	0
...				0		0
Features						
1						
2						
3						
		PLEASE CREATE THE BURNDOWN CHART ON A NEW TAB USING THE DATA FROM THIS TAB				

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Code review has been completed and code has been merged	Project builds, deploys, and tests successfully	Project can be opened on desktop browsers
	All feature branches have been merged and closed	Database update scripts succeed, consistency tests pass	Design documentation has been updated
	New feature code has been documented	Sprint release notes have been written	User documentation has been updated
	Component tests have been written and pass	Change log has been updated	The backend simulation must succeed and produce an artifact.
	Component builds with build pipeline	BOM is updated	
	Fulfills all acceptance criteria for item		

Type	Link / reference

#	Context	Name	Version	License	Comment
1	Frontend	Tailwindcss	4.1.16	MIT License	Utility-first CSS Framework
2	Frontend	Flowbite	3.1.2	MIT License	Component library built on Tailwind CSS.
3	Frontend	Angular	20.3.7	MIT License	
4	Frontend	typescript	5.9.3	Apache-2.0	
5	Frontend	zonejs	0.15.1	MIT License	
6	Frontend	tslib	2.8.1	MIT License	
7	Frontend	karma	6.4.4	MIT License	
8	Frontend	karma-chrome-launcher	3.2.0	MIT License	
9	Frontend	karma-coverage	2.2.1	MIT License	
10	Frontend	karma-jasmine	5.1.0	MIT License	
11	Frontend	karma-jasmine-html-reporter	2.1.0	MIT License	
12	Frontend	postcss	8.5.6	MIT License	
13	Frontend	rxjs	7.8.2	Apache-2.0	
14	Backend	postgresql(-docker)	latest	MIT	
15	Backend	PostgreSQL JDBC Driver	42.7.7	BSD-2	
16	Backend	H2	2.3.232	MLP 2.0	
17	Backend	spring-boot	3.5.6	Apache-2.0	
18	Backend	Flyway	11.7.2	Apache-2.0	
19	Backend	Mybatis	3.0.3	Apache-2.0	

Last Name	First Name	Value					
Wysokinska	Xemena			**3.00**	**OK**		
Ostrizki	Jan						
Raju	Robin Jose	3					
Nogu	Ervin	3					
Krüger	Landolf	3		0	No size		
Tröger	Nicolas	3		1	Trivial size		
#REF!	#REF!			2	Small size		
Killer	Hans	3		3	Medium size		
Schulze	Levin			5	Large size		
				8	Very large size		
				13	Too large (size)		
How to play planning poker							
1. Everyone type their number into their value field, don't hit return yet							
2. Someone, perhaps a product owner, count down 3.. 2.. 1..							
3. Then, everyone hit return to submit their value							