Project Name	...
Online team meeting	https://fau.zoom-x.de/j/61181981845?pwd=ZJq0iXvp6t5yTNBjRccLMqrUQEylWF.1
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2024ws02-backup-metadata-analyzer
GitHub feature board	https://github.com/orgs/amosproj/projects/71/views/2
GitHub imp-squared backlog	https://github.com/orgs/amosproj/projects/75/views/1
Team T-shirt female (white)	https://www.shirtinator.de/s/scY-JglCTmu_7ZBCkeWx0w
Team T-shirt female (black)	https://www.shirtinator.de/s/zM5PRDBVRdOw03ch6thh4w
Team T-shirt male (white)	https://www.shirtinator.de/s/DUbamNAcRXukdXcISNchvA
Team T-shirt male (black)	https://www.shirtinator.de/s/97GiPyFdTre3YHtD_MIpIQ
Additional materials	...
Team maling list	oss-amos-proj2@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Sulzbach	Lara	LaraSlzb	lara.sulzbach@fau.de
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Garbe	Valentin	Us3rname11	garbevalentin@gmail.com
Deli	Deniz	ddeli	d.deli@campus.tu-berlin.de

#	Meeting Day	Product Owners	Software Developer	Release Manager	Scrum Master	Comment
1	2024-10-16	Moritz Rauen	Everyone else	N/A	Lara Sulzbach	
2	2024-10-23	Valentin Garbe	Everyone else	Amelie Regl	Lara Sulzbach	
3	2024-10-30	Moritz Rauen	Everyone else	Florian Oberndörfer	Lara Sulzbach	
4	2024-11-06	Valentin Garbe	Everyone else	Oliver Schnell	Lara Sulzbach	
5	2024-11-13	Moritz Rauen	Everyone else	Dirk Engelhard	Lara Sulzbach	
6	2024-11-20	Valentin Garbe	Everyone else	Christoph Klingenberg	Lara Sulzbach	
7	2024-11-27	Moritz Rauen	Everyone else	Deniz Deli	Lara Sulzbach	Mid-term due
8	2024-12-04	Valentin Garbe	Everyone else	Amelie Regl	Lara Sulzbach	
9	2024-12-11	Moritz Rauen	Everyone else	Florian Oberndörfer	Lara Sulzbach	
10	2023-01-08	Valentin Garbe	Everyone else	Oliver Schnell	Lara Sulzbach	
11	2023-01-15	Moritz Rauen	Everyone else	Dirk Engelhard	Lara Sulzbach	
12	2023-01-22	Valentin Garbe	Everyone else	Christoph Klingenberg	Lara Sulzbach	
13	2023-01-29	Moritz Rauen	Everyone else	Deniz Deli	Lara Sulzbach	
14	2023-02-05	Valentin Garbe	Everyone else	Amelie Regl	Lara Sulzbach	Demo day!
15	2023-02-12	Moritz Rauen	Everyone else	Florian Oberndörfer	Lara Sulzbach	Retrospective
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	Be respectful to each other
	Have fun together
	Learn new things, improve software engineering, team-working skills
	create valuable outcome
	Help each other
Meeting norms	Be on time
	Inform the team about unavalability
	Keep it short and conciese
Working norms	Ask for help, support each other
	follow coding best-practices: work on feature-branch, comment code, commit often
Coordination norms	SD can assign themselves to tickets in the sprint backlog
	PO's are moderating the team meeting
	Every new code must be reviewed before merge
	Do technical reviews before assigning to a new issue
Communication norms	Communication is mainly over Slack
	internal communication in German, external in English
	Honestly over performance, do not try to cover mistakes
Consideration norms	PO's should lead the discussion
Cont. improvement norms	Give directly adressed and constructive feedback
Rewards	
Sanctions	If you are not in the team meeting at 12.35 without excuse, SD's have to do an extra review, PO's have to take over the next sprint moderating
Signatures	
Scrum Master	Lara Sulzbach
Product owner	Valentin Garbe
Product owner	Moritz Rauen
Software developer	Oliver Schnell
Software developer	Amelie Regl
Software developer	Florian Oberndörfer
Software developer	Christoph Klingenberg
Software developer	Dirk Engelhard
Software developer	Deniz Deli

Product Vision	Project Mission
Databackups are an essential functionality for businesses. They ensure, that no important information or artifacts of work is lost due to technical errors or hacking. This metadata analizer aims to help detect problems or anomalies with backups. This problem detection is done in a timely manor, and in some cases even predictively, to help the customer to react before major damages occur.	This project aims to explore which data analysis methods are applicable and useful to for the metadata, which is generated by the industry partner´s software "SESAM". Furthermore, the results of the analysis are condensed into insights and displayed with graphs and alerts. This will help the customer to better understand their backup data and focus on the important take aways.

Term	Definition

Sprint #	Sprint goal
1	None
2	None
3	None
4	Understanding the customers datastructure and analysis methods for them
5	Real Data Flow
6	**Analysis Method Implementation**
7	
8	
9	
10	
11	
12	
13	
14	
15	

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release						
Total			104	104		
Sprints						
1	**Dev Environment Setup**		3	104	2	104
2	**Architecture Foundation**		13	101	17	102
3	**Build Process Setup**		11	88	12	85
4	**Understanding the customers datastructure and analysis methods for them**		29	77	26	73
5	**Real Data workflow**		19	48	0	47
6	**Analysis Method Implementation**		29	29	0	47
Features						
1	**Dev Environment S**	Dev Environment Setup	3		2	
2	**Architecture Foun**	Landing page with backup data table	2		2	
		Initialize Frontend module	2		2	
		Create Architecture Diagram	1		1	
		Architecture evaluation and decision	3		2	
		Initialize Backend Module	2		8	
		Model analysis research	3		2	
		Concept of build process defined & local build implemented	2		2	
3	**Build Process Setup**	Build Process Review preperation	1		2	
		Implement build process for release	8		8	
		Decide on Build process steps for release	2		2	

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
4	**Understanding the customers datastructure and analysis methods for them**	Am Charts integration	2		2	
		First Test with Analysis module	3		3	
		Init the Analysis module	3		3	
		Analysis Methods: Rule Based Analysis	3		3	
		Analysis Methods: Density Based Analysis	5		5	
		Analysis Methods: Time Series Analysis	5		5	
		Analysis Methods: Neural Networks	8		5	
5	Real Data workflow	Being familiar with the Data	3			
		Homework: Record and upload build process video	2			
		Unit & Integration Test Implementation Frontend	3			
		Unit & Integration Test Implementation Backend	3			
		Frontend: Display Backup Size-Timeline	3			
		Backend: Backup Size-Timeline API	5			
6	Analysis Method Implementation	Github Actions: Test Automation	5			
		Frontend: Blueprint Alert Panel	5			
		Backend: E-mail notification trigger	2			
		Analysis Module: First Rule Based Analysis Implemented	3			
		Analysis Module: First Time Series Analysis Implemented	5			
		Analysis Module: First Density Based Analysis Implemented	5			
		Build Documentation	2			
		(Technical) Design Documentation	2			

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining

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						

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Github actions pipline: success / All test: success	Sprint board is cleaned up	Well tested software
	All acceptance criteria are met	Release candidate is demoed and approved	No "loose ends" in the codebase
	Code review done and approved	Release Dev branch is merged to main	Stable running software
	Is merged to Dev branch		Documentation is complete
			Industry partners have no questions left about functionality and usage
			Industry partners are satisfied with value of the product

Type	Link / reference

#	Context	Name	Version	License	Comment
1	Frontend	Angular Devkit Build Angular	18.2.0	MIT	
2	Frontend	Angular Devkit Core	18.2.0	MIT	
3	Frontend	Angular Devkit SChematics	18.2.0	MIT	
4	Frontend	Angular CLI	18.2.0	MIT	
5	Frontend	Angular Compiler CLI	18.2.0	MIT	
6	Frontend	Angular Language Service	18.2.0	MIT	
7	Linter	Eslint JS	9.8.0	MIT	
8	Technical setup	NestJS Schematics	10.0.1	MIT	
9	Technical setup	Nest JS Testing	10.0.2	MIT	
10	Technical setup	Nx Angular	20.0.5	MIT	
11	Technical setup	Nx Cypress	20.0.5	MIT	
12	Technical setup	Nx EsBuild	20.0.5	MIT	
13	Linter	Nx EsLint	20.0.5	MIT	
14	Linter	Nx EsLint Plugin	20.0.5	MIT	
15	Technical setup	Nx Jest	20.0.5	MIT	
16	Technical setup	Nx js	20.0.5	MIT	
17	NX App Generator	Nx Nest	20.0.5	MIT	
18	NX App Generator	Nx Node	20.0.5	MIT	
19	NX App Generator	Nx web	20.0.5	MIT	
20	Technical setup	Schematics Angular	18.2.0	MIT	
21	Technical setup	SWC-Node Register	1.9.1	MIT	
22	Technical setup	SWC-Core	1.5.7	Apache-2.0	
23	Technical setup	SWC-Helpers	0.5.11	Apache-2.0	
24	Types	Types Cors	2.8.17	MIT	
25	Types	Types Jest	29.5.12	MIT	
26	Types	Types Node	18.16.9	MIT	
27	Linting	Typescript-eslint Utils	8.0.0	MIT	
28	Linting	Angular EsLint	18.3.0	MIT	
29	Testing Framework for E2E and Component Tests	Cypress	13.13.0	MIT	
30	Builder	EsBuild	0.19.2	MIT	
31	Make decorators useable with EsBuild	EsBuild Plugin Tsc	0.4.0	MIT	
32	Linter	EsLint	9.8.0	MIT	
33	Prettier Config for EsLint	EsLint Config Prettier	9.0.0	MIT	
34	EsLint Plugin for Linting in Cypress	EsLint Plugin Cypress	3.5.0	MIT	
35	Tests	Jest	29.7.0	MIT	
36	Tests	Jest Environment JSDom	29.7.0	MIT	

#	Context	Name	Version	License	Comment
37	Tests	Jest Environment node	29.7.0	MIT	
38	Tests	Jest Preset Angular	14.1.0	MIT	
39	Routing	JS Dom	22.1.0	MIT	
40	Monorepo setup	Nx	20.0.5	MIT	
41	Formatter	Prettier	2.6.2	MIT	
42	Testing	ts-jest	29.1.0	MIT	
43	Transpiler	ts-node	10.9.1	MIT	
44	Technical setup	tslib	2.3.0	0BSD	
45	Language for Frontend and Backend	typescript	5.5.2	Apache-2.0	
46	Linter for Typescript	typescript EsLint	8.0.0	MIT	
47	Frontend	Angular Animations	18.2.0	MIT	
48	Frontend	Angular Common	18.2.0	MIT	
49	Frontend	Angular Compiler	18.2.0	MIT	
50	Frontend	Angular Core	18.2.0	MIT	
51	Frontend	Angular Forms	18.2.0	MIT	
52	Frontend	Angular Platform Browser	18.2.0	MIT	
53	Frontend	Angular Platform Browser Dynamic	18.2.0	MIT	
54	Frontend	Angular Router	18.2.0	MIT	
55	Frontend Components	CDS Core		MIT	
56	CSS Framework + Components	CLR Angular	17.3.1	MIT + SIL Open Font License version 1.1	SIL Open Font License version 1.1 only for Fonts
57	CSS Framework + Components	CLR UI	17.3.1	MIT + SIL Open Font License version 1.1	SIL Open Font License version 1.1 only for Fonts
58	Backend Components	Nest JS Common	10.0.2	MIT	
59	Backend Components	Nest JS Config	3.3.0	MIT	
60	Backend Components	Nest JS Core	10.0.2	MIT	
61	Backend Components	Nest JS Platform Express	10.0.2	MIT	
62	API Docs	Nest JS Swagger	7.4.2	MIT	
63	Nest JS Database Support	Nest JS Typeorm	10.0.2	MIT	
64	Promise-based HTTP Client for Node	Axios	1.6.0	MIT	
65	transform plain object to some instance of class	Class Transformer	0.5.1	MIT	
66	Validations (e.g. for Dtos)	Class Validator	0.14.1	MIT	
67	Cross Origin Requests	Cors	2.8.5	MIT	
70	PostgreSQL Client for Node JS	pg	8.13.1	MIT	

#	Context	Name	Version	License	Comment
71	Runtime Reflections for types	Reflect-Metadata	0.1.13	Apache-2.0	
72	Reactive Programming (e.g. Observables)	RXJS	7.8.0	Apache-2.0	
73	API Docs UI	Swagger UI Express	5.0.1	MIT	
74	ORM	Typeorm	0.3.20	MIT	
75	Frontend	Zone JS	0.14.3	MIT	
76	Python	markupsafe	3.0.2	BSD	
77	Python	blinker	1.8.2	MIT	
78	Python	click	8.1.7	BSD	
79	Python	itsdangerous	2.2.0	BSD	
80	Python	jinja2	3.1.4	BSD	
81	Python	werkzeug	3.1.1	BSD	
82	Python	flask	3.0.3	BSD	
83	HttpModule for connecting to Analyzer Service	NestJS Axios	3.1.1	MIT	
84	Python to set environment variables	python-dotenv	1.0.1	BSD	
85	Frontend Chart-Design	amcharts5	5.10.7		
86	Frontend Chart-Design	amCharts 5 fonts	5.0.1		
87	Python Testing	Pytest	7.3.1	MIT	
88	Test Framework for Backend	NRWL Jest	19.8.4	MIT	
89	SQLAlchemy	SQL toolkit for Python	2.0.36	MIT	
90	pg8000	Postgres interface Library	1.31.2	MIT	
91	python-dateutil	extension to the standard Python datetime module	2.9.0	BSD	
92	asn1crypto	fast ASN.1 parser	1.5.1	MIT	
93	scramp	python implementation of SCRAM protocol	1.4.5	MIT	
94	Mock API Calls	Supertest	7.0.0	MIT	
95	Mock API Calls	Types Supertest	6.0.2	MIT	
96	Mailing	Nodemailer	6.4.16	MIT-0	
97	Mailing	@nestjs-modules/mailer	2.0.2	MIT	
98	Template Builder for Mailing	handlebars	4.7.8	MIT	
99	Mailing	nodemailer	6.9.16	MIT-0	
100	Swagger UI for Python	flasgger	0.9.7.1	MIT	

Last Name	First Name	Value					
Sulzbach	**Lara**			**6.50**	**NOK**		
Oberndörfer	**Florian**	8					
Schnell	**Oliver**						
Klingenberg	**Christoph**						
Regl	**Amelie**			0	No size		
Engelhard	**Dirk**	5		1	Trivial size		
Rauen	**Moritz**			2	Small size		
Garbe	**Valentin**			3	Medium size		
Deli	**Deniz**			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							