AMOS P1 - Planning Document Project Data

Project Name	Xcelerator Demo App
Online team meeting	https://fau.zoom-x.de/j/68734239815
Production system (if any)	TBD
Test system (if any)	TBD
GitHub repository	https://github.com/amosproj/amos2024ss01-xcelerator-demo-app
GitHub feature board	https://github.com/orgs/amosproj/projects/43/views/2
GitHub impediments backlog	
Male Team T-shirt (white)	https://www.shirtinator.de/s/ZyMdmUG5TpCQTKqMQLhArQ
Male Team T-shirt (black)	https://www.shirtinator.de/s/Gpdz8IxTT7-4qgmoQZBK5w
Female Team T-shirt (white)	https://www.shirtinator.de/s/rfxFlAlxTlebR-mo-t182g
Female Team T-shirt (black)	https://www.shirtinator.de/s/tBsO50F8STmiLdLYU9WCCQ
Additional materials	
Team maling list	oss-amos-proj1@lists.fau.de

AMOS P1 - Planning Document Project Team

Last Name	First Name	GitHub User Name	Email Address
Lorenz	Alexander	Hydraneut	alex.lorenz.1@gmx.de
Rajjo	Lama	lamara11	lama.l.rajjo@fau.de
Sternberg	Ingo	IngoSternberg	ingo.sternberg@fau.de
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Bojanić	Saša	Sabo2k	saleb2k@gmail.com
Schmidt	David	KonsumGandalf	d.schmidt@campus.tu-berlin.de / david_scl

AMOS P1 - Planning Document Role Assignments

#	Meeting Day Product Owners	Software Developer	Release Manager	Scrum Master	Comment
1	2024-04-17 Lama Rajjo, Shahraz Nasir	Everyone else	N/A	Cecilia Betancourt Barrita	
2	2024-04-24 Lama Rajjo, Shahraz Nasir	Everyone else	TBD	Cecilia Betancourt Barrita	
3	2024-05-01 Lama Rajjo, Shahraz Nasir	Everyone else	TBD	Cecilia Betancourt Barrita	
4	2024-05-08 Lama Rajjo, Shahraz Nasir	Everyone else	Saša Bojanić	Cecilia Betancourt Barrita	
5	2024-05-15 Lama Rajjo, Shahraz Nasir	Everyone else	Jonas Heisterberg	Cecilia Betancourt Barrita	
6	2024-05-22 Lama Rajjo, Shahraz Nasir	Everyone else	Maximilian Krug	Cecilia Betancourt Barrita	
7	2024-05-29 Lama Rajjo, Shahraz Nasir	Everyone else	Alexander Lorenz	Cecilia Betancourt Barrita	Mid-term due
8	2024-06-05 Lama Rajjo, Shahraz Nasir	Everyone else	David Schmidt	Cecilia Betancourt Barrita	
9	2024-06-12 Lama Rajjo, Shahraz Nasir	Everyone else	Patrick Schmidt	Cecilia Betancourt Barrita	
10	2024-06-19 Lama Rajjo, Shahraz Nasir	Everyone else	Ingo Sternberg	Cecilia Betancourt Barrita	
11	2024-06-26 Lama Rajjo, Shahraz Nasir	Everyone else	Saša Bojanić	Cecilia Betancourt Barrita	
12	2024-07-03 Lama Rajjo, Shahraz Nasir	Everyone else	Jonas Heisterberg	Cecilia Betancourt Barrita	
13	2024-07-10 Lama Rajjo, Shahraz Nasir	Everyone else	Maximilian Krug	Cecilia Betancourt Barrita	
14	2024-07-17 Lama Rajjo, Shahraz Nasir	Everyone else	Alexander Lorenz	Cecilia Betancourt Barrita	Demo day!
15	2024-07-24 Lama Rajjo, Shahraz Nasir	Everyone else	David Schmidt	Cecilia Betancourt Barrita	Retrospective
roduct	t owners, software developers, and Scurm Mas	ster are set and ideally don't change	e over time; the critical part is the F	Release Manager role you need to defir	ne here
			· ·		

AMOS P1 - Planning Document Team Contract

Goals	
	Fulfilling the requirements from the client
	Deliver a quality demo
	SMART principles
	Have fun
	Improve coding skills
Meeting norms	
-	Punctuality
	Inform others of your absence or if you are late (WhatsApp)
	Openness
	Give feedback
	Active participation
	Meetings should have agendas
	Best practice is keeping the camera on; do what you want in call but do not interrupt the workflow
Working norms	
	Respect deadline
	Inform early to the team if you are struggling to complete a task
	Seek help or clarification
	Be efficient
	When doing flow charts use <u>draw.io</u>
Coordination norms	
	We use the StandUp-Emails
	Interact actively with the Industry partner during meetings
Communication norms	
	Honesty
	If there is any problem, communicate it on time
	Check discord at least Bi-daily
	Whatsapp: Used for small messages, stuff that does not need repleis
	Discord for general communication: pair coding
	Zoom: team-Meetings and Partner Meetings
	Avoid side conversations & interruptions
Consideration norms	
	Patience
	Accept some level of knowledge gap
	Be aware of the differences
	Add roles - "Most kills" - most bugfixes, "Most assists" - most supportive for others, "Headhunter" - Solving most tickets
Cont. improvement norms	

AMOS P1 - Planning Document Team Contract

	Be available to take up various kinds of tasks
	Learn from each other
	Keep in touch with the industry partner(We collect Questions via discord and ask them via E-Mail)
	After commit ad at least 2 developers for code review
Rewards	
	Recognition
	Achievements/Titles:
	Most-Assists: Most-Helpfull TeamMember
	Most-Kills: Most-Bug fixes
	HeadHunter: Most-Tasks-Cleared
Sanctions	
	After breach of contract you have to wear a silly tie to the next team-meeting
Signatures	· · · · · · · · · · · · · · · · · · ·
Scrum Master	Cecilia Betancourt Barrita
Product owner	Lama Rajjo
Product owner	Shahraz Nasir
Software developer	Alexander Lorenz
Software developer	Ingo Sternberg
Software developer	Jonas Heisterberg
Software developer	David Schmidt
Software developer	Patrick Schmidt
Software developer	Saša Bojanić
Software developer	Maximilian Krug

AMOS P1 - Planning Document Product Goal

## **Product Vision Project Mission** Due to their positive alignment with global sustainability objectives, IoT technologies The mission of this project is to develop an application streamlining the monitoring have been adopted in several industries. One such example is the asset resource and management of facilities, allowing managers to rapidly identify and address management area, where the use of energy systems (and the included devices) issues such as faulty pumps or tanks. Moreover, they will have access to needs to be closely monitored to assure safety and efficiency. Since temporary comprehensive data on their assets, enabling them to make data-driven decisions about repairs, replacements, and upgrades. In addition, we aim to showcase how to failures of IoT devices can have substantial consequences, allowing facility managers to quickly ascertain and react to the status of their assets is pivotal. Our application employ the Siemens Xcelerator ecosystem to monitor and manage multiple facilities. intends to address this issue by leveraging the Siemens Xcelerator ecosystem, which highlighting key features such as real-time data integration, predictive maintenance, offers reliability and intelligence in facility management. and streamlined operations. Our solution will provide a centralized platform for tracking the status of all facilities, ensuring that critical issues are prioritized and resolved promptly. As a result, operational costs will encounter a reduction, while the lifespan of facility assets will extend. Moreover, it will be an example of what can be achieved with the Siemens Xcelerator platform, serving as an educational tool, and creating a robust foundation for developers to build upon.

AMOS P1 - Planning Document Product Glossary

Term	Definition
IoT devices	Technologies that behave and adjust their status in a predefined manner based on live data
Facility	A location, typically a large building, having IoT devices installed
Faulty	Adjective describing a facility suffering from one or more device failures
Work order	A request for support, repairment, or maintenance regarding one or more device failures in a facility
Facility Manager	The person who needs/wants/can inspect the status a certain facility, and create work orders for the ones with device failures.
Case	A work order submitted for a facility suffering from one or more device failures.

AMOS P1 - Planning Document Sprint Goals

Sprint #	Sprint goal
1	None
2	None
3	None
4	Frame application screens refinement
5	Backend optimizations and authentication
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

AMOS P1 - Planning Document

Mid-Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Releas	e					
Total			114	114		
Sprints	<b>.</b>					
Opriiita						
1	Research and team organization		0	114	0	114
2	Fundamental setup and definition of resources		18	114	27	
3	Frame application screens skeleton		25	96	30	87
4	Frame application screens refinement		21	71	21	57
5	Backend optimizations and authentication		34	50	0	
6	Integrating Backend and Frontend		16	16	0	36
Feature	98					
	December of the control of the					
1	Research and team organization	Design and unload team land			_	
		Design and upload team logo Create T-shirt mockup	-		-	
		Research of fundamentals	-		<u>-</u>	
2	Fundamental setup and definition of resources	Research or fundamentals	-		-	
_	rundamental setup and demittion of resources	Software architecture document	5		5	
		Fill in the bill od materials	2		2	
		Github Pipelines	2		5	
		Nx Setup	3		5	
		Config based service implementation in Angular	3		5	
		Config service for NEST	3		5	
3	Frame application screens skeleton	Coming Screec for NEC 1	J		3	
•	Traine application selection selection	Build process review	3		3	
		Automate release process	5		5	
		Frame Application Screen: Homepage (Facilities with errors)	3		5	
		Frame Application Screen: Facilities Overview	3		2	
		Navigation/Routing	3		5	
		Set up Tailwind	2		2	
		Setting up Prisma	3		3	
		Frame Application Screen: Order Form	3		5	
4	Frame application screens refinement	''				
		Automate the bill of materials	3		3	
		Maintenance of architecture overview	5		5	
		Frame Application Screen: Implement Details Page	5		5	
		Authentication: Login Page	5		5	
		Add Favicon in App	1		1	
		Switch from card view to event list view in the List all facilities page	2		2	
5	Backend optimizations and authentication					
		Define product vision	_		_	

AMOS P1 - Planning Document

Mid-Project Release plan

				Est.	<b>5</b> 10:	Real
Sprint	Goal	Feature Name	Est. Size	Remaining	Real Size	Remaining
		Define product mission	-		-	
		Create Build Process Video	2		0	
		Rename "work orders" to "cases" throughout the application	2		0	
		Show selected facility on the right side of the work orders form page	3		0	
		Implement Work Order view	3		0	
		Connect Siemens API to the IoT service	5		0	
		Back button for headers from details to facility overview	2		0	
		Implement Case CRUD operations	8		0	
		Implement Mock Server for IOT Timeseries API in NestJS	8		0	
		Make charts bigger in details page	1		0	
6	Integrating Backend and Frontend					
		Connect details page to backend	5		0	
		Adjust timestamps	3		0	
		Validation of selection boxes in Orders form	3		0	
		User login using Github account via OIDC provider	5		0	
		Connect Frontend to Backend				
		Case Crud operations frontend				
		Make charts show multiple data in Y axis				
		Refactor Frontend				
		Write tests for frontend				

AMOS P1 - Planning Document Final Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release	9					
T-4-1				0		
Total			0	0		
Sprints						
					•	
2			0	0	0	0
3			0	0	0	
				0		0
Fasture						
Feature	95					
1						
2						
3						
3						

AMOS P1 - Planning Document Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	A Feature is done when all acceptance criteria are met.	A Sprint Release is done when the Features awaiting review meet their individual DoD and AC.	The Project Release is done when there are no more fixes left to be done in the code.
	A Feature is done when its code has been reviewed and merged into the primary development branch.	A Sprint Release is done when all team members agree for its publishing.	The Project Release is done when it is building and running successfully on all the desired environments and machines.
	A Feature is done when its unit/integration tests are passing.	A Sprint Release is done when the project is not outputting or displaying any errors.	The Project Release is done when the team members agree that the related documentation is comprehensive enough.
	A Feature is done when the related pipeline is building successfully.	A Sprint Release is done when the pipeline running after its last commit on the primary development branch completes without errors.	The Project Release is done when all stakeholders, including the Industry Partner, approve of the release state.

AMOS P1 - Planning Document Documentation

<b>Type</b> Github-Wiki	Link / reference
Github-Wiki	https://github.com/amosproj/amos2024ss01-xcelerator-demo-app/wiki

		26	***	
## Contest    Fourteed	Name angular/animations angular/animations angular/common angular/compiler angular/compiler angular/come angular/coms	Version	Interest of the control of the contr	Comment
2 frontend	angular/common	-17.3.0	MIT License	
3 frontend	angular/compiler	-17.3.0	MIT License	
4 frontend	angular/core	~17.3.0	MIT License	
5 frontend	angular/forms	~17.3.0	MIT License	
6 frontend 7 frontend	angular/platform-browser	~17.3.0	MIT License	
8 frontend	angular/puter	~17.3.0	MIT License	
9 frontend	faker-js/faker	^8.4.1	MIT-license	
10 frontend	nestjs/common	^10.0.2	MIT-license	
11 frontend	nestjs/config	^3.2.2	MIT	
13 frontend	nestis/platform-express	^10.0.3	MIT-license	
14 frontend	prisma/client	^5.13.0	Apache-2.0	
15 frontend	nx/angular	18.3.4	MIT-license	
16 frontend	siemens/ix	^2.2.1	MIT	
18 frontend	siemens/ix-enharts	*2.2.1	MIT licensed	LODINGT IS ALC SImmers ALC
19 frontend	siemens/ix-icons	^2.1.0	MIT	
20 frontend	axios	^1.6.8	MIT License	Copyright (c) 2014 present Matt Zabriskie & Collaborators
21 frontend	class-validator	^0.14.1	MIT License	
23 frontend	echarts	^5.5.0	Anache-2 0	Copyright (c) 2010, SCOLI WOME
24 frontend	lodash	^4.17.21	MIT License	Copyright 15 Foundation and other contributors -https://jip.foundation/>
25 frontend	ngx-echarts	^17.2.0	MIT	
26 frontend	postgres	^3.4.4	The PostgreSQL Licence	titps/lippensource.org/license/postgress)
28 frontend	prisma reflectimetadata	10.13.0	Apache License 2.0	
29 frontend	nijs	~7.8.0	Apache License 2.0	
30 frontend	ts-enum-util	4.1.0	MIT License	
31 frontend	tslib	^2.3.0	BSD Zero Clause License	https://github.com/microsoft/bslb/bob/maint_UCEVSE.tx
32 trontend 33 devDependencies	zone.js angular.deukithuild.angular	~0.14.3	MIT License	
34 devDependencies	angular-devkit/core	-17.3.0	MIT License	
35 devDependencies	angular-devkit/schematics	-17.3.0	MIT License	
36 devDependencies	angular-eslint/eslint-plugin	-17.3.0	MIT License	
38 devDependencies	angular-estint/estint-progin-temprate angular-estint/template-parser	~17.3.0	MIT License	
39 devDependencies	angular/oli	-17.3.0	MIT License	
40 devDependencies	angular/compiler-cli	~17.3.0	MIT License	
41 devDependencies	angular/language-service	-17.3.0	MIT License	
43 devDependencies	committint/config-conventional	^19.2.2	MIT	
44 devDependencies	committint/config-nx-scopes	^19.3.0	MIT	
45 devDependencies	nestjs/schematics	^10.0.1	MIT-license	
46 devDependencies	nestjs/testing	^10.3.8	MIT-license	
4/ devDependencies 48 devDependencies	nxicevist nxieslint	18.3.4	MIT-license	
49 devDependencies	nx/eslint-plugin	18.3.4	MIT-license	
50 devDependencies	nxijest	18.3.4	MIT-license	
51 devDependencies	nxijs	18.3.4	MIT-license	
52 devDependencies	nxinode	18.3.4	MIT-license	
54 devDependencies	nxiplaywright	18.3.4	MIT-license	
55 devDependencies	nx/plugin	^18.3.4	MIT	
56 devDependencies	any pulsar justiment horsever any any pulsar justiment horsever any pulsar justiment horsever dynamic any pulsar justiment and pulsar j	18.3.4	MIT-license	
57 devDependencies 59 devDependencies	nx/webpack	18.3.4	MIT-license	
59 devDependencies	nlawwichtitest	^1 43 1	Anache License 2 0	
60 devDependencies	schematics/angular	-17.3.6	MIT License	
61 devDependencies	stylistic/eslint-plugin-js	^2.0.0	MIT	
62 devDependencies	swo-node/register	~1.8.0	MIT License	
64 devDependencies	swchelners	~1.5.0	Apache License 2.0	
65 devDependencies	types/jest	^29.5.12	MIT license	
66 devDependencies	types/node	20.12.7	MIT license	
67 devDependencies	typescript-eslint/eslint-plugin	^7.7.1	MIT license	
68 devDependencies	typescript-eslint/parser	^7.7.1	TypeScript ESLint Parser	titus (jilih, com)escride stiff hipscride stif
70 devDependencies	esint-config-stylelint	^21.0.0	MIT	III DANGE CONTROL CONT
71 devDependencies	eslint-plugin-playwright	^1.6.0	MIT License	
72 devDependencies	estint-config-prettier	9.1.0	MIT License	
73 devDependencies	eslint-plugin-simple-import-sort	^12.1.0	MIT	
75 devDependencies	husky	49.0.11	MIT	
76 devDependencies	jest	^29.7.0	MIT License	
77 devDependencies	jest-environment-jsdom	^29.7.0	MIT License	
78 devDependencies	jest-environment-node	^29.7.0	MIT License	
80 devDependencies	lint-staged	^15.2.2	MIT	
81 devDependencies	nx	18.3.4	MIT License	
82 devDependencies	prettier	*3.2.5	MIT License	
83 devDependencies	prisma	^5.13.0 ^16.4.0	Apache-2.0	
85 devDependencies	stylelint-config-recess-order	^5.0.1	ISC	https://en.wisioedia.org/wishISC_license
86 devDependencies	stylelint-config-standard	^36.0.0	MIT	
87 devDependencies	stylelint-config-standard-scss	^13.1.0	MIT	
89 devDependencies	tairwindoss te inet	13.4.3	MIT License	
90 devDependencies	ts-node	10.9.2	MIT License	
91 devDependencies	typescript	-5.4.5	Apache License 2.0	
92 devDependencies	webpack-cli	9.15.1	MII License	
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AMOS P1 - Planning Document Planning Poker

Last Name	First Name	Value			
#REF!	#REF!				
#REF!	#REF!		5.14	NOK	
Lorenz	Alexander	3	0111	11011	
Rajjo	Lama				
Sternberg	Ingo	5	0	No size	
Betancourt Barrita	Cecilia		1	Trivial size	
Heisterberg	Jonas	8	2	Small size	
Krug	Maximilian	5	3	Medium size	
Nasir	Shahraz		5	Large size	
Schmidt	Patrick	5	8	Very large size	
Schmidt	David	5	13	Too large (size)	
Bojanić	Saša	5			