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
Betancourt Barrita	Cecilia	ceciliabetb	cecilia.betancourt@fau.de
Heisterberg	Jonas	Persists	jonas@mennicke.com
Krug	Maximilian	HaruspexSan	krugm03@gmail.com
Nasir	Shahraz	shahraz1998	nasirsharaz@gmail.com
Schmidt	Patrick	PatrickSchm1dt	patrick.m.schmidt@fau.de
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	Integrating Backend and Frontend
7	Frontend/Backend refactoring
8	Connecting to Insights Hub APIs
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	 					
Total			136	136		
Sprints						
1	Research and team organization		0	136	n	136
2	Fundamental setup and definition of resources		18			136
3	Frame application screens skeleton		25			
4	Frame application screens refinement		22			79
5	Backend optimizations and authentication		29			55
6	Integrating Backend and Frontend		42		-	55
Feature			-			
1	Research and team organization					
•	Troobaron and tourn organization	Design and upload team logo	_		_	
		Create T-shirt mockup	_		136 0 136 27 118 30 93 24 71 0 42 0 	
		Research of fundamentals	_		_	
2	Fundamental setup and definition of resources				2	
_		Software architecture document	5			
		Fill in the bill od materials	2			
		Github Pipelines	2			
		Nx Setup	3		5	
		Config based service implementation in Angular	3		5	
		Config service for NEST	3		5	
3	Frame application screens skeleton				36 0 36 27 18 30 93 24 71 0 42 0	
		Build process review	3		136 0 136 27 118 30 93 24 71 0 42 0	
		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	
		Frame Application Screen: Order Form	3		5	
		Frame Application Screen: Implement Details Page	5			
		Authentication: Login Page	5		5	
		Add Favicon in App	1			
		Deployment of the Application to a free Infrastructure	3		3	
		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

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real 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	
		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 Frontend to Backend	8		0	
		Error handling in backend	5		0	
		Case Crud operations frontend	8		0	
		Display information box for facilities in details page	3		0	
		Make charts show multiple data in Y axis	3		0	
		Refactor headlines of webpages	3		0	
		Connect IoT service to local service	8		0	
		Description of the product on homepage, Fill about and legal information	2		0	
		Write user, (technical) design, and build/deploy documentation	2		0	
		, , , , , , , , , , , , , , , , , , , ,				

AMOS P1 - Planning Document Final Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Releas	e					
Total			147	147		
Sprints	•					
Opriiito						
1	Research and team organization		0	147	0	147
2	Fundamental setup and definition of resources		18	147	27	147
3	Frame application screens skeleton				30	120
4	Frame application screens refinement		22	104	24	90
5	Backend optimizations and authentication		29	82	29	66
6	Integrating Backend and Frontend		30	53	28	37
7	Frontend/Backend refactoring		23	23	27	9
8	Connecting to Insights Hub APIs		36	0	53	
9	Final UI optimizations		12	-36	0	-71
10	Pre-deployment testing		13	-48	0	-71
11	Deployment of the app on AWS		8	-61	0	-71
12	Preparations for Demo Day and documentation		9	-69	0	-71
Feature	9 S					
1	Research and team organization					
•	Troobaron and toam organization	Design and upload team logo	_		_	
		Create T-shirt mockup	_		_	
		Research of fundamentals	_		_	
2	Fundamental setup and definition of resources	Tressure in the real real real real real real real rea				
		Software architecture document	5		5	
		Fill in the bill od materials		0 147 18 147 25 129 22 104 29 82 30 53 23 23 36 0 12 -36 13 -48 8 -61 9 -69	2	
		Github Pipelines			5	
		Nx Setup	3		5	
		Config based service implementation in Angular	3		5	
		Config service for NEST	3		5	
3	Frame application screens skeleton					
		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	
		Frame Application Screen: Order Form			5	
		Frame Application Screen: Implement Details Page	5		5	

AMOS P1 - Planning Document Final Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
		Authentication: Login Page	5		5	
		Add Favicon in App	1		1	
		Deployment of the Application to a free Infrastructure	3		3	
		Switch from card view to event list view in the List all facilities page	2		2	
5	Backend optimizations and authentication					
		Define product vision	-		-	
		Define product mission	-		-	
		Create Build Process Video	2		2	
		Rename "work orders" to "cases" throughout the application	2		2	
		Show selected facility on the right side of the work orders form page	3		3	
		Implement Work Order view	3		3	
		Back button for headers from details to facility overview	2		1	
		Implement Case CRUD operations	8		8	
		Implement Mock Server for IOT Timeseries API in NestJS	8		8	
		Make charts bigger in details page	1		2	
6	Integrating Backend and Frontend					
•	miograming _uononu umu rromonu	Connect Frontend to Backend	8		8	
		Display information box for facilities in details page	3	Remaining Real Size		
		Make charts show multiple data in Y axis	3			
		Refactor headlines of webpages	3		-	
		Connect Siemens API to the IoT service	5			
		Maintenance of architecture overview	5			
		Signal handling workshop	1			
		Write user, (technical) design, and build/deploy documentation	2			
7	Frontend/Backend refactoring	write user, (technical) design, and build/deploy documentation				
•	Trontena/Backena relactoring	Adjust data collected in the cases form	3		3	
		Support: Assist in BE and FE integration	1			
		Workshop: Database Seeding	1			
		Error handling in backend	5			
		Case CRUD Operations Frontend	8			
		Description of the product on homepage, Fill about and legal information	2			
			3			
0	Connecting to Incights Hub ADIs	Cases Details Page	3		3	
8	Connecting to Insights Hub APIs	Walahan dainman haildin a	_			
		Workshop at siemens building	-		-	
		Prepare for Demo App presentation at siemens building	-			
		Connect IoT service to local service	8		13	
		Refactoring time series API	3		3	
		Update readme.md to procide entry point to the project	3		3	
		Show actual pump data on the charts in details page	3		3	
		Service-like feature for FE pages of facilities to BE	5		5	
		Content: Cases screen	3		8	
		Connect cases details page to backend	5		8	
		Validation of selection boxes in Orders form	3		5	
		Husky fix, Docker build	1		3	
		Integrate swagger open api	2		2	

AMOS P1 - Planning Document Final Project Release plan

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
9	Final UI optimizations					
		Details page responsiveness	3		0	
		Facilities page responsiveness	3		0	
		Orders page responsiveness	3		0	
		Theme colors	3		0	
10	Pre-deployment testing					
		Write tests for backend	5		0	
		Improve error-handling for backend	5		0	
		Fallbacks for API calls	3		0	
11	Deployment of the app on AWS					
		Deploy on AWS (IP account)	5		0	
		Post-deployment Testing	3		0	
12	Preparations for Demo Day and documentation					
		Prepare demo day video	3		0	
		Prepare demo day slides	3		0	
		Finalize documentation	3		0	

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

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

Content Tourismed	Name angular immations andular immations angular	Version	Leenee MIT License	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	angular/platform-browser	-17.3.0	MIT License	
7 frontend	angular/platform-browser-dynamic	~17.3.0	MIT License	
8 trontend	angular/router	-17.3.0	MIT License	
o trontend	nestis/common	*8.4.1 *10.0.2	MIT-license	
11 frontend	nestjs/config	13.2.2	MIT	
12 frontend	nestjs/core	^10.0.3	MIT-license	
13 frontend	nestjs/platform-express	^10.0.4	MIT-license	
14 frontend	prisma/client	^5.13.0	Apache-2.0	
16 frontend	nxangular	18.3.4	MIT-license	
17 frontend	siemens (v. angulas	12.2.1	MIT licensed	Crossinhi 6 2022 Slamane &C
18 frontend	siemens/ix-echarts	^2.2.0	MIT	DOCUMENT AND SOMEON AN
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	Paradak (a) 908 Form Malia
23 frontend	echarts	^5.5.0	Anache 2 0	Copyright (U/2016, documented)
24 frontend	lodash	^4.17.21	MIT License	Copyright JS Foundation and other contributors https://jps.foundation/
25 frontend	ngx-echarts	^17.2.0	MIT	
26 frontend	postgres	^3.4.4	The PostgreSQL Licence	https://opensource.org/license/postgress/
27 frontend	prisma	^5.13.0	Apache License 2.0	
29 frontend	nis	-780	Anache License 2.0	
30 frontend	ts-enum-util	4.1.0	MIT License	
31 frontend	tslib	^2.3.0	BSD Zero Clause License	https://aithub.com/microsofthstib-blob/maint_ICENSE.txt
32 frontend	zone.js	-0.14.3	MIT License	
33 devDependencies	angular-devkibbuild-angular	~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	
37 devDependencies	angular-eslint/eslint-plugin-template	~17.3.0	MIT License	
38 devDependencies	angular-eslint/template-parser	~17.3.0	MIT License	
40 devDependencies	angular/compiles di	~17.3.0	MIT License	
41 devDependencies	angular/language-service	-17.3.0	MIT License	
42 devDependencies	committint/cli	^19.3.0	MIT	
43 devDependencies	committint/config-conventional	^19.2.2	MIT	
44 devDependencies	committint/config-nx-scopes	^19.3.0	MIT Server	
46 devDependencies	nestis/lesting	^10.0.1	MIT-license	
47 devDependencies	nxidevkit	18.3.4	MIT-license	
48 devDependencies	nx/eslint	18.3.4	MIT-license	
49 devDependencies	nx/estint-plugin	18.3.4	MIT-license	
50 devDependencies	nxi)est	18.3.4	MIT-license	
52 devDependencies	nxinest	18.3.4	MIT-license	
53 devDependencies	nx/node	18.3.4	MIT-license	
54 devDependencies	nx/playwright	18.3.4	MIT-license	
55 devDependencies	nx/plugin	^18.3.4	MIT	
56 devDependencies	nx/web	18.3.4	MIT-license	
57 devDependencies	nx/webpack	18.3.4	MIT-license	
59 devDependencies	nlawwightlest	^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	
63 devDependencies	swc/core	~1.5.0	Apache License 2.0	
65 devDependencies	types/est	^0.5.11 ^29.5.12	Apache License 2.0 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 (Jihib) comhparante et life hoperine et einhobbhanat (JENE) Illis, (Jihib) comhparante et life hoperine et einhobbhanat (JENE) Illis, (Jihib) comhparante et life hoperine et life hoperi
70 devDependencies	estint confinetivisint	021.0.0	MIT License	mps right to come annies in the command Libertos.
71 devDependencies	eslint-olugin-olaywright	^1.6.0	MIT License	
72 devDependencies	estint-config-prettier	9.1.0	MIT License	
73 devDependencies	estint-plugin-simple-import-sort	^12.1.0	MIT	
74 devDependencies	eslint-plugin-unused-imports	^3.1.0	MIT	
76 devDependencies	iest	^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	
79 devDependencies	jest-preset-angular	~14.0.3	MIT License	
81 devDependencies	int-staged	19.3.4	MIT License	
82 devDependencies	prettier	13.2.5	MIT License	
83 devDependencies	prisma	^5.13.0	Apache-2.0	
84 devDependencies	stylelint	^16.4.0	MIT	
85 devDependencies	stylelint-config-recess-order	^5.0.1	MIT	titos lien wikipedia orapiwki ISC, (Lensee
87 devDependencies	stylelint-config-standard-scss	^13.1.0	MIT	
88 devDependencies	tailwindoss	^3.4.3	MIT	
89 devDependencies	ts-jest	^29.1.2	MIT License	
90 devDependencies	ts-node	10.9.2	MIT License	
92 devDependencies	rip be exam-sall anni je anni j	^5.1.4	MIT License	
93 PackageManager	pnpm	8.15.1	MIT	

AMOS P1 - Planning Document Planning Poker

Last Name	First Name	Value			
#REF!	#REF!				
#REF!	#REF!		5.14	NOK	
Lorenz	Alexander	3	O.	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			
How to play planning poker					
Everyone type their number in	nto their value field, don't hit return ye	et			
2. Someone, perhaps a product	owner, count down 3 2 1				
3. Then, everyone hit return to s	ubmit their value				
<u> </u>					