

a	Data Pipeline Manager
Online team meeting	https://fau.zoom-x.de/j/61392609910?pwd=Z2ROVHYycVZ3UmNydEF6VGQzRHVCdz09
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2023ws04-pipeline-manager
GitHub feature board	https://github.com/orgs/amosproj/projects/28/views/2
GitHub impediments backlog	https://github.com/orgs/amosproj/projects/34
Team T-shirt (white)	...
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/UI1hycWOPLd
Additional materials	...
Team email list	oss-amos-proj4@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Cui	Tinggao	CAGcoder	tginfo.cui@fau.de
Datla	Sai Krishna Sravanthi	sravanthidatla78	sai.sravanthi.datla@fau.de /// sravanthidatl
Mak	Wingkin	Elementator	wingkinam@yahoo.de
Maruboyina	Bhanu Prakash	bhanuPrakashMa	bhanu.bm.maruboyina@fau.de
Venkata Naga Sri Lalitha	Pabbaraju	Lalitha2395	srilalithapabbaraju@gmail.com
Wasinger	Artur	keldami	artur.wasinger@fau.de
Becker	Eugen	eubec	eugen.becker@fau.de
Floevig	Ingunn Augdal	ingunnaf	floevig@campus.tu-berlin.de
Parwal	Krutarth	krutarth4	k.parwal@campus.tu-berlin.de

#	Meeting Day	Product Owner	Software Developer	Release Manager	Scrum Master	Comment
1	2023-10-18	Eugen Becker	Everyone else	N/A	Pabbaraju Venkata Naga Sri Lalitha	
2	2023-10-25	Eugen Becker, Wingkin Mak	Everyone else	N/A	Pabbaraju Venkata Naga Sri Lalitha	
3	2023-11-01	Eugen Becker, Wingkin Mak	Everyone else	N/A	Pabbaraju Venkata Naga Sri Lalitha	
4	2023-11-08	Eugen Becker, Wingkin Mak	Everyone else	Artur Wasinger	Pabbaraju Venkata Naga Sri Lalitha	
5	2023-11-15	Eugen Becker, Wingkin Mak	Everyone else	Krutarth Parwal	Pabbaraju Venkata Naga Sri Lalitha	
6	2023-11-22	Wingkin Mak	Everyone else	Ingunn Augdal Floevig	Pabbaraju Venkata Naga Sri Lalitha	
7	2023-11-29	Wingkin Mak	Everyone else	Artur Wasinger	Pabbaraju Venkata Naga Sri Lalitha	Mid-term due
8	2023-12-06	Wingkin Mak	Everyone else	Artur Wasinger	Pabbaraju Venkata Naga Sri Lalitha	
9	2023-12-13	Wingkin Mak	Everyone else	Bhanu Prakash Maruboyina	Pabbaraju Venkata Naga Sri Lalitha	
10	2023-12-20	Wingkin Mak	Everyone else	Sai Krishna Sravanthi Datla	Pabbaraju Venkata Naga Sri Lalitha	
11	2024-01-10	Wingkin Mak	Everyone else	Artur Wasinger	Pabbaraju Venkata Naga Sri Lalitha	
12	2024-01-17	Wingkin Mak	Everyone else	Tinggao Cui	Pabbaraju Venkata Naga Sri Lalitha	
13	2024-01-24	Wingkin Mak	Everyone else	Sai Krishna Sravanthi Datla	Pabbaraju Venkata Naga Sri Lalitha	
14	2024-01-31	Wingkin Mak	Everyone else		Pabbaraju Venkata Naga Sri Lalitha	
15	2024-02-07	Wingkin Mak	Everyone else		Pabbaraju Venkata Naga Sri Lalitha	Demo day!
16	2024-02-14	Wingkin Mak	Everyone else		Pabbaraju Venkata Naga Sri Lalitha	Retrospective

Goals	<ul style="list-style-type: none"> - Having fun while working on the project - Creating a product that the industry partner is satisfied with - Meeting deadlines - Having an efficient and healthy work culture
Meeting norms	<ul style="list-style-type: none"> - Mandatory team meeting every wednesday - Mandatory second team meeting every friday - Meeting with industry partner every friday (mandatory for product owners and preferable at least two developers attend) - Members that cannot make it to a meeting try to inform the team at least one day in advance (via team slack channel)
Working norms	<ul style="list-style-type: none"> - Communicate with each other - Trust each other/the team and maintain confidentiality - Four eyes principle (e.g. when merging requests) - Regular working, pair programming or/and independently - Decisions will be made in discussions and polls - In conflict: propose multiple solutions, have one day thinking time, vote for a solution after - Only the matter is criticized, not the person - Working on every Sunday from 17:00 - 19:00
Coordination norms	<ul style="list-style-type: none"> - Decide on one meeting moderator (can be a rotating role) - Everyone is responsible for keeping the meetings on track - Product owners create assignments from the requirements and allocate them in agreement with the software developers - Collect points to discuss in the meeting before the meeting, e.g. if someone encounters a problem, that needs discussion with the whole team, tell the POs or meeting lead, so they add it to the agenda of the team meeting - Team work
Communication norms	<ul style="list-style-type: none"> - Communicate as much as possible (even a reaction likes thumps up is helpful for the team to make decisions) - Response or react within one day - Zoom for team meeting - Team slack channel for communication - Be friendly to each other
Consideration norms	<ul style="list-style-type: none"> - Side conversation are appropriate as long as they are useful and not distracting - During disagreements, both party explain their point of view (try to understand the other side) <ul style="list-style-type: none"> - If project related disagreement -> vote - If interpersonal disagreement -> try to resolve it yourself or talk to the scrum master or product owners
Cont. improvement norms	<ul style="list-style-type: none"> - Sharing knowledge - Checking updates from everyone in the standup call or meeting, and sending an email at the end of the week with the progress done - Tracking is in the Backlog (GitHub project board), evaluation as a normal SCRUM standup, and merge request, at least some other dev needs to look at it. One Reviewer is enough. Discussion will trigger when we don't meet our project goals.

Rewards	Acknowledge achievements by appreciating and offering some goodies
Sanctions	- Serious talking, figuring out what is causing this behaviour - Escalation to Prof. Riehle if necessary
Signatures	
Scrum Master	Sri Lalitha Pabbaraju
Product owner	Eugen Becker
Product owner	Wingkin Mak
Software developer	Ingunn Augdal Fløvig
Software developer	Sravanthi Datla
Software developer	Tinggao Cui
Software developer	Krutarth Parwal
Software developer	Artur Wasinger
Software developer	Bhanu Prakash Maruboyina

Product Vision	Project Mission
<p>The reason of existence of the envisioned product (beyond this project).</p> <p>This CNP services should help people manage and analyse their project data. It should be the light weight version of an already existing software, where it can be deployed anytime and used for managing and analysing data</p> <p>The product vision is to have this cloud-native pipelining (CNP) service integrated in a provider for services where the customer can select which services he wants and then gets an instance of that service. Furthermore the security of this service might have to be checked so that it conforms with the security standards of the industry partners.</p> <p>It is possible that new functionality requirements get added after being used by customers. But for now all necessary functionalities are described in the project mission</p>	<p>The mission of this particular project (in the context of the product vision).</p> <p>MVP</p> <p>The goal of the project is to develop cloud-native pipelining (CNP) service that facilitates the analysis and management of project data. A project can request a data pipeline and storage, and then load the data into the pipeline. The loaded raw data is stored in a storage bucket, the insights gained from the raw data are stored in a database. The end user is provided with a frontend to upload the data, and to access and analyze the stored data.</p> <p>The service backend orchestrates the interaction of the described software components.</p> <p>For different projects, it should be possible to roll out separate instances of the described software via a deployment pipeline.</p> <p>Deployment-Pipeline functionality:</p> <ol style="list-style-type: none">1. An IT staff member can roll out an instance of a CNP at the request of a project.2. The deployment pipeline provides the entire infrastructure consisting of frontend, backend, data pipeline, storage, and database so that a project member can then work with the CNP.3. The deployed frontend is accessible from the Internet. <p>Frontend functionality:</p> <ol style="list-style-type: none">1. A user must be able to upload their data through the provisioned CNP and select a data pipeline suitable for that purpose.2. A user must be able to search and retrieve relevant information from their CNP project and associated data.3. A user must be able to check and control the status of the CNP project. <p>Backend functionality:</p> <ol style="list-style-type: none">1. The backend takes care of the orchestration of the described software components, with the following rough process flow:<ol style="list-style-type: none">1. Receiving the data provided via the frontend2. Feeding the data to the data pipeline3. Transfer of the prepared data and raw data to the storage system and database Broker between end user and storage/database4. Access control to the project and project data using an appropriate IAM system.2. CNP projects can be of different data types. In order of priority: (1) CSV files, (2) compound files (zip files of CSV files), (3) large binary files (e.g., videos), (4) event streams. The AMOS project will focus on the implementation of the first two types. Different ETL solutions can be chosen for the different types of CNP projects.

Term	Definition
Datapipeline	A pipeline that receives a file and starts processing it

Sprint #	Sprint goal
1	Get in contact with Industry partner Collect requirement for the project Decide on which technologies to use for the project Getting to know the team
2	None
3	None
4	Write your sprint goal here
5	Having a demo running with upload, download and datapipeline processing
6	Having a demo running with upload, download and datapipeline processing
7	Having a demo running with upload, download, datapipeline processing and storing metadata
8	Have demo running in AWS
9	Have login service
10	
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14	
15	

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release						
Total			31	31		
Sprints						
1	Have a demo with upload, download and datapipeline processing running		16	31	0	31
2	Deploy the demo onto AWS and add metadata		15	15	0	31
3			0	0	0	31
...				0		31
Features						
1	Have a demo with upload, download and datapipeline processing running					
		Upload	3			
		Download	3	2		
		Start datapipeline in backend	5			
		Authorization process via Keycloak	5			
2	Deploy the demo onto AWS and add metadata					
		Deploy our project onto AWS/Kubernetes Cluster				
		Storing metadata	5			
		Retriving metadata	5			
		Start datapipeline in frontend	5			
3						

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release						
Total			23	23		
Sprints						
1	Have a demo with basic functionality and storing metadata in database		23	23	0	23
2	Improve demo base functionality and adding filtering function		0	0	0	23
3			0	0	0	23
...				0		23
Features						
1	Have a demo with basic functionality and storing metadata in database					
		Deploy apache airflow in AWS	5			
		Upload csv file via pre signed url	5			
		Upload csv file via backend	3			
		Store csv file metadata in database	5			
		Start datapipeline in frontend	5			
2	Improve demo base functionality and adding filtering function					
		Store metadata after upload				
		Delete uploaded csv files				
		Deploy frontend in AWS				
		Upload file with Uuid				
		View existing datapipeline				
3						

[illegible]

Type	Link / reference

#	Context	Name	Version	License	Comment
1	https://angular.io/	Angular	16.2	MIT	
2	https://www.python.org/	Python	3.12.0	Python Software Foundation License 2	
3	https://flask.palletsprojects.com/en/3.0.x/	Flask	3.0.0	BSD-3-Clause License	
4	https://airflow.apache.org/	Apache Airflow	2.7.2	Apache License 2.0	
5	https://www.terraform.io/	Terraform	1.6.3	Business Source License 1.1	
6	https://www.mongodb.com/	MongoDB	1.40.4	Server Side Public License 1	
7	https://www.typescriptlang.org/	TypeScript	5.2.2	Apache License 2.0	
8	https://getbootstrap.com/	Bootstrap	5.3.2	MIT	

3 First Name		Value					
Cui	Tinggao	3		3.50	NOK		
Datla	Sai Krishna Sravanthi	3					
Maruboyina	Bhanu Prakash	5					
Wasinger	Artur	3					
Mak	Wingkin			0	No size		
Venkata Naga Sri Lalitha	Pabbaraju			1	Trivial size		
				2	Small size		
Fløvig	Ingunn			3	Medium size		
Parwal	Krutarth			5	Large size		
Becker	Eugen			8	Very large size		
				13	Too large (size)		