

Project Name	...
Online team meeting	https://fau.zoom.us/j/63092613958
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2023ss01-apache-pulsar-ui
GitHub feature board	https://github.com/amosproj/amos2023ss01-apache-pulsar-ui
GitHub impediments backlog	https://github.com/orgs/amosproj/projects/19
Team T-shirt (white)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/af483f4b-b0e1-4fd2-9447-08b0e173f5bc
Team T-shirt (black)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/f8fc2edd-668e-4223-815c-1014b1b5a8ed
Additional materials	...

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Goals	
	Creating a good product; Developing a useful open-source software;
	Create something cool and have fun
	Work as a team
	Provide a product that fulfills as many customer needs as possible
	Gain useful experience with the Scrum framework and Agile methodologies
Meeting norms	
	Answer yes or no question using Zooms built in feature „Reactions/Reaktionen“
	Following the scrum principle (review, retro, planning)
	Be on time or communicate if you are late
	Try to end the meetings on time
	Try not to interrupt people speaking (unless helpfull/necessary)
	Always be nice :)
Working norms	
	understandable code over wizardry => commenting
	Define and follow coding guidelines (including code- and commit-style, git-strategy and so on...) (enforce coding style using Git CI/CD?)
	Issues/Goal descriptions shall provide necessary information to fulfill the task in a valuable way
	Good documentations
	Code reviews
	Structured Commits, PRs, Issues ...
	Inform early on if some task cannot be done/fully completed within the defined Sprint
	Reviews are not personal (be objective)
Coordination norms	
	Be organized, ask help immediately if you are stuck
	Start planning as early as possible
	Continuously keep track of individual progress during the week
Communication norms	
	Everybody can bring on their point
	There are no stupid questions
	If there are team decision, everybody should at least communicate if they are fine with it
	Communicate early on if there is a problem, so that we have time to fix it together
	Be respectful to each other
Consideration norms	
	Everyone has a vote - majority wins? but before hear (+discuss?) arguments of either side
Cont. improvement norms	
	Focus on retrospective (constant feedback)
Rewards	
	Good grades as a team
Sanctions	
	Vote on sanction if necessary
	Communicate if there is a problem in e.g. the retro, so that the team can decide together what to do (and also that the person knows that there is a problem)

Ziqi He	
Julian Marcel Tochman-Szewc	
Anna Haverkamp	
Philipp Dreesens	
Emilia Kafedzhieva	
Sebastian Schwarzmann	
Jonas Arnhold	
Niklas Teschner	
Shahraz Nasir	

Product Vision	Project Mission
<p>With increasing amounts of data shared across more and more complex and large IT-ecosystems, the need for a central coordination and communication platform like Apache Pulsar is increasingly important. Due to the large scale, such Apache Pulsar installations can become very complicated to overview and to maintain. Therefore, tools to handle Apache Pulsar installations like the Apache Pulsar Manager exist. Nonetheless, these tools do not provide sufficient support for the actual content exploration and manipulation, but instead mainly focus on the management of the topology.</p> <p>Our Apache Pulsar Web-UI should exactly fill this gap, by providing an intuitive way of navigating through an Apache Pulsar installation and exploring each topology level and its according (meta)data.</p> <p>The vision of our Web-UI is to support organizations that run Apache Pulsar, to increase transparency, maintainability and efficiency amongst their IT-infrastructure.</p>	<p>The mission of our project is well aligned with our product vision. Because the goal of our mission is to build a Web-UI that can easily be used by users that have some experience with managing and maintaining Apache Pulsar installations to understand and work on their infrastructure.</p> <p>We want to achieve this by structuring our UI according to the topology of Apache Pulsar, so that it can be navigated intuitively for targeted exploration of issues. With our Apache Pulsar UI issues can be located, and potential optimizations can easily be searched for, identified, and implemented.</p>

Term	Definition
Stream	A continuous stream of messages, that can be analyzed, transformed and processed in real time
Topic	A logical entity or named channel in Pulsar through which messages are published and consumed. It represents a stream of data.
Partition	A division of a topic into multiple parallel streams of messages. Partitioning enables scalability and parallel processing across different consumers.
Producer	A client application that publishes messages to a topic in Pulsar.
Consumer	A client application that subscribes to a topic in Pulsar and consumes messages published to it.
Broker	A Pulsar component responsible for receiving and routing messages between producers and consumers. It handles the distribution and load balancing of messages across different topics and partitions.
Bookkeeper	A distributed storage system in Pulsar that provides fault tolerance and durability for storing message data.
Namespace	A namespace in Apache Pulsar is a logical grouping of topics. It acts as a container that isolates topics, allowing for better organization, access control, and resource allocation within a Pulsar cluster.
Tenant	A tenant in Pulsar represents a group or entity that has ownership over namespaces and topics. It provides multi-tenancy support, allowing different users or organizations to have their isolated environments within a Pulsar cluster.
Cluster	A Pulsar cluster consists of a group of interconnected brokers and bookkeepers that work together to provide the messaging and streaming capabilities. It forms the infrastructure for storing and processing messages.

Sprint	Theme	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							

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Release							
	Total			0	0		
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2				0	0	0	0
3				0	0	0	0
...					0		0
Features							
1							
2							
3							

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Type	Link / reference

#	Context	Name	Version	License	Comment
	Backend dependencies				
1	Java Spring framework	Spring Boot	2.7.11	Apache License Version 2.0	
2	Java testing framework	JUnit	5.8.2	Common Public License	
3	Java library	lombok	1.18.26	MIT License	
4	Pulsar Java library	Pulsar Client	2.11.1	Apache License Version 2.0	
5	Database	PostgreSQL	42.3.8	The PostgreSQL Licence	
6	Integration Testing	Testcontainers	1.18.0	MIT License	
7	Documentation	Springdoc-Openapi	1.7.0	Apache License Version 2.0	
8	Caching	Caffeine	2.9.3	Apache License Version 2.0	
	Frontend dependencies				
9	User Interface	React	18.2.0	MIT License	
10	React UI tools	Material UI	5.12.2	MIT License	
11	React state management	Redux Toolkit	1.9.5	MIT License	
12	Data fetching	Axios	1.4.0	MIT License	
13	Code formatter	Prettier	2.8.8	MIT License	
14	Linter	ESLint	8.39.0	MIT License	
15	Testing Framework	Jest	27.4.3	MIT License	

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