

<b>Project Name</b>	RTDIP Data Quality Checker
<b>Online team meeting</b>	<a href="https://fau.zoom-x.de/j/65297375649">https://fau.zoom-x.de/j/65297375649</a>
<b>Production system (if any)</b>	...
<b>Test system (if any)</b>	...
<b>GitHub repository</b>	<a href="https://github.com/amosproj/amos2024ws01-rtdip-data-quality-checker">https://github.com/amosproj/amos2024ws01-rtdip-data-quality-checker</a>
<b>GitHub feature board</b>	<a href="https://github.com/orgs/amosproj/projects/73/views/2">https://github.com/orgs/amosproj/projects/73/views/2</a>
<b>GitHub imp-squared backlog</b>	<a href="https://github.com/orgs/amosproj/projects/74/views/1">https://github.com/orgs/amosproj/projects/74/views/1</a>
<b>Team T-shirt (white)</b>	<a href="https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/88a2f8c7-961f-4c63-a1bf-9461971dfdc0">https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/88a2f8c7-961f-4c63-a1bf-9461971dfdc0</a>
<b>Team T-shirt (black)</b>	NA
<b>Additional materials</b>	...
<b>Team mailing list</b>	oss-amos-proj1@lists.fau.de

Last Name	First Name	GitHub User Name	Email Address
Hoffmann	Dominik	dh1542	dominik.a.hoffmann@fau.de   dominik151099@outlook.de (github)
Katziuk	Avi	AviKatziuk	avi.katziuk@fau.de
B.	Timm	Timm638	tim638@gmail.com (For GitHub only)
Munz	Christian	chris-1187	c.munz@campus.tu-berlin.de (GitHub: christian.munz@posteo.de)
Tran	Minh Khue	kristen149	minh.khue.tran@fau.de
Baumgärtner	Lucca	lucal	lucca.baumgaertner@fau.de
Moll	Leon	moll	leonmariusmoll@gmail.com
Trost	Felipe	felipetrost	felipe.trost@gmail.com
Sanal	Mert	sanalmert	mert.sanal@campus.tu-berlin.de

#	Meeting Day	Product Owners	Software Developer	Release Manager	Scrum Master	Comment
1	2023-10-16	Lucca Baumgärtner	Everyone else		Avi Katziuk	
2	2023-10-23	Mert Sanal	Everyone else		Avi Katziuk	
3	2023-10-30	Lucca Baumgärtner	Everyone else	Timm	Avi Katziuk	
4	2023-11-06	Mert Sanal	Everyone else	Dominik	Avi Katziuk	
5	2023-11-13	Lucca Baumgärtner	Everyone else	Leon	Avi Katziuk	
6	2023-11-20	Mert Sanal	Everyone else	Christian	Avi Katziuk	
7	2023-11-27	Lucca Baumgärtner	Everyone else	Minh Khue	Avi Katziuk	Mid-term due
8	2023-12-04	Mert Sanal	Everyone else	Felipe	Avi Katziuk	
9	2023-12-11	Lucca Baumgärtner	Everyone else	Timm	Avi Katziuk	
10	2023-01-11	Mert Sanal	Everyone else	Dominik	Avi Katziuk	
11	2023-01-18	Lucca Baumgärtner	Everyone else	Leon	Avi Katziuk	
12	2023-01-25	Mert Sanal	Everyone else	Christian	Avi Katziuk	
13	2023-02-01	Lucca Baumgärtner	Everyone else	Minh Khue	Avi Katziuk	
14	2023-02-08	Mert Sanal	Everyone else	Felipe	Avi Katziuk	Demo day!
15	2023-02-15	Lucca Baumärtner	Everyone else	Timm	Avi Katziuk	Retrospective
Product owners, software developers, and Scrum Master are set and ideally don't change over time; the critical part is the Release Manager role you need to define here						

Goals	Deliver high quality software components for RTDIP by having a successfull PR into the main project	
	Forefilling the requirments of our industry partner in a structured and non-stressful way, e.g. not pulling all-nighters	
	Have a great time and learn something in the process	
Meeting norms	Mandatory	
	Punctual and reliable schedule (meetings at the same time every week so we can schedule our personal life and stuff)	
	Inform the team on the previous day if you can't attend	
	Try to be on time, don't wait for late joiners unless their input is critical	
Working norms	Try to find uniform decisions by discussing and prioritizing the IPs wishes	
	Don't expect last minute all nighters from your team members	
	Always get at least one review by another SD for your PR	
	Review (merge or postpone) open PRs by Tuesday 12am to give the RM enough time	
	Comply with code standards that we decide on as a team	
	Would be good to plan ahead when everyone can put the work in so we can coordinate and communicate in a productive way	
	Not committing non compiling code	
	Use feature branches	
	Scheduling their working times is up to the individual	
Coordination norms		
	Developing a good and working release pipeline. From requirment to merge in master	
	Team meetings are led by the POs	
	Equal distribution of story points, considering last week's differences	
	Tasks can be picked freely by team members, if a task isn't assigned the POs can decide	
	If one has technical problems/bugs during their tasks, other developers should support via online platforms, TeamViewer or conduct peer review	
Communication norms	Slack for messaging, Zoom for Meetings/Pair Porgramming	
	Illness: Depending on the privacy preference of the person either slack channel or SM	
	Respond to direct mentions within one workday, have an emergency thread in slack	
	Have a FAQ in the documentation that is frequently updated	
Consideration norms		
	Devs, Scrum Master and POs should be equal in the hierachry. If someone has a concern one should address it	
Cont. improvement norms	Tracking progress in github project boards via achieved story points	
Rewards	Praise team members in Slack if you think they did a great job on something	
Sanctions	Create a Meme for the group and post it to Slack or someplace where we can collect them?	
Signatures		
Scrum Master	Avi Katziuk	
Product owner	Lucca Baumgärtner	
Product owner	Mert Sanal	
Software developer		
Software developer	Christian Munz	
Software developer	Domink Hoffmann	
Software developer	Felipe Trost	
Software developer	Leon Moll	
Software developer	Minh K. Tran	
	Continuous Improvement Nor	Io everyone, the link to join the Zoom meeting can be found

Product Vision	Project Mission
<p>The Real-Time Data Ingestion Platform (RTDIP) by Shell is an open-source solution aimed at efficiently gathering and processing large-scale time-series data, such as information from millions of industrial sensors. It emphasizes scalability, innovation, and collaboration, with potential applications across various industries to enhance operational insights and decision-making.</p>	<p>To support the advancement of the Real-Time Data Ingestion Platform (RTDIP) by contributing to the development of innovative, open-source components focused on ensuring data quality. The mission includes creating tools to detect missing data, outliers, duplicates, and irregularities in real-time data streams, while aligning with RTDIP's development guidelines to promote robust, scalable, and collaborative solutions.</p>

Term	Definition

Sprint #	Sprint goal
1	None
2	None
3	None
4	Optional
5	Build a product demo for the mid-project & final release
6	
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13	
14	
15	

Sprint	Goal	Feature Name	Est. Size	Est. Remaining	Real Size	Real Remaining
Release						
Total			65	65		
Sprints						
1	Issues Finished in Sprint No. #1		11	65	11	65
2	Issues Finished in Sprint No. #2		20	54	27	54
3	Issues Finished in Sprint No. #3		21	34	17	27
4	Issues Finished in Sprint No. #4		13	13		10
5	Issues Finished in Sprint No. #5					
Features						
1	Issues Finished in Sprint No. #1					
		Duplicate Detection	8		8	
		Fix Broken Virtual Environment	3		3	
2	Issues Finished in Sprint No. #2					
		Create Software Bill of Materials	1		1	
		Create Software Architecture Diagram	3		5	
		Anomaly Detection	3		8	
		Explore the Test Data and Brainstorm RTDIP Component Ideas	5		5	
		Identify Missing Data	8		8	
3	Issues Finished in Sprint No. #3					
		Create a Test Pipeline to Run During Release	5		1	
		Clean Data Based on Interval/Pattern	8		8	
		Normalization of Data	8		8	
4	Issues Finished in Sprint No. #4					
		Time Series Prediction Using ARIMA	13		8	



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						

[illegible]

Type	Link / reference

#	Context	Name	Version Range	License	Comment
1	conda-forge	databricks-sql-connector	>=3.1.0,<4.0.0	Apache 2.0	SQL connector for Databricks
2	conda-forge	azure-identity	>=1.12.0,<2.0.0	MIT	Identity management for Azure
3	pip	pandas	>=1.5.2,<2.2.0	BSD 3-Clause	Data manipulation library
4	conda-forge	jinja2	>=3.1.4,<4.0.0	BSD 3-Clause	Template engine for Python
5	conda-forge	importlib_metadata	>=7.0.0	MIT	Metadata for Python packages
6	conda-forge	semver	>=3.0.0,<4.0.0	MIT	Semantic versioning library
7	conda-forge	xlrd	>=2.0.1,<3.0.0	MIT	Library for reading Excel files
8	conda-forge	grpcio	>=1.48.1	Apache 2.0	gRPC library for Python
9	conda-forge	grpcio-status	>=1.48.1	Apache 2.0	gRPC status library
10	conda-forge	googleapis-common-protos	>=1.56.4	Apache 2.0	Common protobufs for Google APIs
11	pip	langchain	>=0.2.0,<0.3.0	MIT	Framework for LLMs
12	pip	langchain-community	>=0.2.0,<0.3.0	MIT	Community contributions to LangChain
13	conda-forge	openai	>=1.13.3,<2.0.0	MIT	OpenAI API client
14	conda-forge	pydantic	>=2.6.0,<3.0.0	MIT	Data validation library
15	conda-forge	pyspark	>=3.3.0,<3.6.0	Apache 2.0	Spark library for Python
16	conda-forge	delta-spark	>=2.2.0,<3.3.0	Apache 2.0	Delta Lake integration with Spark
17	pip	dependency-injector	>=4.41.0,<5.0.0	MIT	Dependency injection framework
18	pip	databricks-sdk	>=0.20.0,<1.0.0	Apache 2.0	SDK for Databricks services
19	conda-forge	azure-storage-file-datalake	>=12.12.0,<13.0.0	MIT	Azure Data Lake Storage client
20	conda-forge	azure-mgmt-storage	>=21.0.0	MIT	Azure Storage management client
21	pip	azure-mgmt-eventgrid	>=10.2.0	MIT	Azure Event Grid management client
22	conda-forge	boto3	>=1.28.2,<2.0.0	Apache 2.0	AWS SDK for Python
23	pip	hvac	>=1.1.1	MPL 2.0	HashiCorp Vault client
24	conda-forge	azure-keyvault-secrets	>=4.7.0,<5.0.0	MIT	Azure Key Vault secrets management
25	pip	web3	>=6.18.0,<7.0.0	MIT	Ethereum blockchain library
26	conda-forge	polars[deltalake]	>=0.18.8,<1.0.0	MIT	DataFrame library with Delta Lake support
27	conda-forge	delta-sharing	>=1.0.0,<1.1.0	Apache 2.0	Delta Sharing library
28	conda-forge	xarray	>=2023.1.0,<2023.8.0	BSD 3-Clause	N-dimensional array library
29	conda-forge	ecmwf-api-client	>=1.6.3,<2.0.0	Apache 2.0	ECMWF API client
30	conda-forge	netCDF4	>=1.6.4,<2.0.0	BSD 3-Clause	NetCDF file reading/writing
31	conda-forge	joblib	>=1.3.2,<2.0.0	BSD 3-Clause	Lightweight pipelining library
32	pip	sqlparams	>=5.1.0,<6.0.0	MIT	SQL query parameters library
33	pip	entsoe-py	>=0.5.10,<1.0.0	MIT	ENTSOE API client
34	conda-forge	pytest	==7.4.0	MIT	Testing framework
35	conda-forge	pytest-mock	==3.11.1	MIT	Mocking for pytest
36	conda-forge	pytest-cov	==4.1.0	MIT	Coverage reporting for pytest
37	conda-forge	pylint	==2.17.4	GPL 2.0	Static code analysis for Python
38	conda-forge	pip	>=23.1.2	MIT	Python package installer
39	conda-forge	turbodbc	==4.11.0	MIT	ODBC interface for Python
40	conda-forge	numpy	>=1.23.4,<2.0.0	BSD 3-Clause	Numerical computing library
41	conda-forge	oauthlib	>=3.2.2,<4.0.0	MIT	OAuth library
42	conda-forge	cryptography	>=38.0.3	MIT	Cryptography library

#	Context	Name	Version Range	License	Comment
43	conda-forge	fastapi	>=0.110.0,<1.0.0	MIT	Fast web framework
44	conda-forge	httpx	>=0.24.1,<1.0.0	MIT	HTTP client for Python
45	conda-forge	openjdk	>=11.0.15,<12.0.0	N/A	OpenJDK Java runtime
46	conda-forge	mkdocs-material	==9.5.20	MIT	Material theme for MkDocs
47	conda-forge	mkdocs-material-extensions	==1.3.1	MIT	Extensions for MkDocs
48	conda-forge	mkdocstrings	==0.25.0	MIT	Documentation generation
49	conda-forge	mkdocstrings-python	==1.10.8	MIT	Python support for mkdocstrings
50	conda-forge	mkdocs-macros-plugin	==1.0.1	MIT	Macros for MkDocs
51	conda-forge	mkdocs-autorefs	>=1.0.0,<1.1.0	MIT	Automatic references for MkDocs
52	conda-forge	pygments	==2.16.1	BSD 2-Clause	Syntax highlighting library
53	conda-forge	pymdown-extensions	==10.8.1	MIT	Extensions for Markdown
54	conda-forge	pygithub	>=1.59.0	MIT	GitHub API client
55	conda-forge	pyjwt	>=2.8.0,<3.0.0	MIT	JSON Web
56	conda-forge	conda	>=24.9.2	BSD 3-Clause	Package installer

Last Name	First Name	Value					
Hoffmann	Dominik	5					
#REF!	#REF!	5		5.00	OK		
Katziuk	Avi						
B.	Timm						
Munz	Christian			0	No size		
Tran	Minh Khue			1	Trivial size		
Baumgärtner	Lucca			2	Small size		
Moll	Leon			3	Medium size		
Trost	Felipe			5	Large size		
Sanal	Mert			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							