Project Name	IDunion blockchain dashboard
Online team meeting	https://fau.zoom.us/j/68046406469?pwd=dWdTVG1lQnMrZ0hUUGVXSE1udnVYdz09
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2022ss06-idunion-blockchain-dashboard
GitHub kanban board (project)	https://github.com/amosproj/amos2022ss06-idunion-blockchain-dashboard/projects/1
Team T-shirt (white)	
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/3S3YdkBrdvw
Additional materials	
Course materials	https://drive.google.com/drive/folders/0B7LJZKdwtsyMdXRtbm5ZSEtZb3M
Lecture slides	https://github.com/dirkriehle/amos-course/tree/master/Generated/Lecture%20slides
Project descriptions	https://drive.google.com/drive/folders/1syeE4vsCDiRe-dckElviinxZhIzddqdL?usp=sharing
Online lecture hall	https://fau.zoom.us/j/69353200264

Last Name	First Name	GitHub User Name	Email Address
Hemanna Geethakumary	Murali Krishna	mkhg	murali.k.hemanna@fau.de
Rosenberger	Julian	julianrosenberger	julian.rosenberger@fau.de
López Caballero	David	codeDavidLopez	david.lopez.caballero@fau.de
Hoang	Pham Minh Khai	khai-pi	khai.pham.hoang@fau.de
			khaiphamhoang.pi@gmail.com (used for happyness index and standup mail, github)
Kokardekar	Gaurav	Gaurav4449	gaurav.kokardekar@fau.de
Sandrini	Anna-Maria	A-Sandrini	anna-maria.sandrini@fau.de
Ali	Muhammad	muhammadali9699	muhammad.a.ali@fau.de

Goals	Achieve the requirements defined by the industry partner = happy customer
	We want to create a space where everyone can learn from each other and where we benefit from our different strengths
Meeting norms	If anyone can not attend it shall be indicated via e-mail
	Everyone shows up at time or indicates via Signal the delay
	Camera should be turned on (at least when speaking up)
Working norms	If someone struggles with a task we support each other and give contribution to the person who helped
	The tasks to be worked on are distributed and assigned ownership
	Everyone works on the homework and informs others in standup e-mails when it's a common task
	MS Teams for tasks without feature: https://teams.microsoft.com/l/entity/com.microsoft.teamspace.tab.planner/_djb2_msteams_prefix_2602738921?context=%7B%22subEntityId%22%3Anull%2C%22channelId%22%3A%2219%3AV15KRB5BjbRtz-gz_YZplzW2uR_PR1EeDUJndPmqRNY1%40thread.tacv2%22%7D&groupId=4091629d-8600-4c86-a111-aa2dbade99f1&tenantId=b2efcef3-8496-40b8-9de8-f135982f3461
Coordination norms	Every job has a designated person responsible for it
	We volunteer for common jobs
Communication norms	Communication with industry partner via e-mail
	MS Teams AND Signal used for internal team communication during the week
	The team e-mail shall be put in CC on every communication via e-mail
	We check MS Teams AND Signal at least every second day
Consideration norms	We discuss disagreement openly in both the team meetings and MS Teams
	We vote for a final resolution
Cont. improvement norms	We jointly review the happiness index in every team meeting
Rewards	We celebrate each other virtually and if we meet offline the responsible person gets a free drink of their choice
Sanctions	We apologize by bringing cookies OR if online ? coffee break and the rule violator has to entertain :p

#	Meeting Day	Uni	Comment	Product Owner	Software Developer	Release Manager	Scrum Master
1	2022-04-27	No		Anna, David	Ram, Julian, Tanvir, Soham, Khai, Murali	Anna	Gaurav Kokardekar
2	2022-05-04	No		Anna, David	Ram, Julian, Tanvir, Khai, Murali, Muhammad, Swar	Julian	not present
3	2022-05-11	Yes		Anna, David	Ram, Julian, Tanvir, Khai, Murali, Muhammad,	Murali	Gaurav Kokardekar
4	2022-05-18	No		Anna, David	Julian, Khai, Murali, Muhammad,	Julian	Gaurav Kokardekar
5	2022-05-25	Yes		Anna, David	Julian, Khai, Murali, Muhammad	Khai	Gaurav Kokardekar
6	2022-06-01			...	...	...	
7	2022-06-08	Yes	Mid-term due				
8	2022-06-15						
9	2022-06-22						
10	2022-01-13	Yes					
11	2022-01-20						
12	2022-01-27						
13	2022-02-03	Yes					
14	2022-02-10		Demo day!				
15	2022-02-17		Retrospective				

Product Vision	Project Mission
The IDunion project (see https://idunion.org/?lang=en) is aiming to create a decentralized identity management. With the help of the Hyperledger stack it is possible to create, issue and manage identity information in a decentralized ledger. The IDunion network connects it´s participants and enables a trustworthy, secure, effective and user-friendly ecosystem. The network nodes create and store various types of data. With the help of the data the network activity and the ledger can be analzyed in order to optimize workflows, share credential information or find new business cases. Processing and displaying the data is crucial for leveraging the information value.	In the interest of our industry partner the mission is to identify data of possible interest and display it in a dashboard. By displaying the data in the dashboard it is easy and intuitive to get the impression of the network activity and ledger status. Based on the displayed information the industry partner can optimize it´s businesses. Project information (provided by tutors, industry partner): "The goal of the project is to develop a metrics engine and a dashboard for the IDunion blockchain. 1. The (UI-less) metrics engine 1.1 Collects data from the test instances of the blockchain and computes predefined metrics (a.k.a. KPIs, keyperformance indicators) 1.2 Allows for the registration of interest in these metrics and the provision of notifications if provided metric values match a defined (boolean) query 2. The dashboard 2.1 Visualizes the metrics over time (using Grafana) Can be configured by a user to meet their needs 2.2 Supports user accounts and role definitions where Different roles get different default layouts 2.3 Can register interest in events where Events correspond to metrics engine notifications 2.4 Can display events"

Product Vision	Project Mission

Term	Definition
Distributed ledger	A distributed ledger is a database that is consensually shared and synchronized across multiple sites
Blockchain	A Blockchain is a distributed and shared digital ledger of data entities
KPI	A KPI, Key performance indicator, is an attribute of the network or Blockchain with valuable information for the business owner
Node	A node is a participant in the network contributing to the Blockchain
Hyperledger	Hyperledger is an open source effort to advance cross-industry blockchain technologies for business use
Hyperledger Indy	Hyperledger Indy provides tools, libraries, and reusable components for providing digital identities rooted on distributed ledgers
Indy Monitor	A Indy Monitor is a toolset for monitoring the node status
DID	A DID is a decentralized identifier that refers to any entity within a digital identity
DID Entity	A DID Entity is a data structure comprised of a collection of key-value pairs
DID Document	A DID Document is a JSON-LD serialization of a DID Entity
Prometeus	Prometeus is a data storage for information of the network or Blockchain
Grafana dashboard	A Grafana Dashboard is a board displaying the data of the network or Blockchain in a user friendly format
Metrics engine	A metrics engine is a program that is processing the data of the network and blockchain calculating the key performance indicators
Node-Exporter	Prometheus exporter for hardware and OS metrics, in our project we are using it to collect data from node to database

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
3	Grafana Dashboard	As a user I want / need a dashboard So that i can read the data (find out basic information about the ledger)	Showcase Grafana	5	21	5	24	16
3	Blockchain	As a developer/team member I want / need an common environment So that all the team members are aligned and reproducable results will be possible	Set up Hyperledger environment	2	21	3	24	16
4	Architecture	As a team member I want / need more details about the technical implementation So that the features can be assigned to an system element and work easier distributed	Define basic architecture for the project	3	23	5	26	15
4	Development	As a developer I want / need branching and merging strategy So that commits and the code are organized	Align and define branch-strategy	2	23	1	26	15
4	Indy Monitor	As a user I want / need Hyperledger Indy Monitor set up So that information of the ledger can be processed further	Set up Indy Monitor	3	23	5	26	15
5	Prometeus	As a user I want / need data stored in Prometeus.io So that it can be provided to Grafana	Key performance indicators in Prometeus.io	5	14			
5	Indy Monitor	As a user I want / need an overview of all available data stored in the ledger and network So that I can identify interesting data or gaps, respective data to be created	List all available data	3	14			
5	Documentation	As a user and team member I want / need a project handbook sceleton So that I can easily get an overview of the project	Define and set-up documentation	1	14			
5	Indy Monitor / Prometeus	As a user I want / need data collected with indy monitor stored in prometheus (https://prometheus.io/docs/introduction/overview/) So that information is in the end available for Grafana	Indy monitor data transfered to prometheus.io	5	14			
6								
6								
6								
6								

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Feature has been fully implemented	Feature has been fully implemented	Feature integration testing passed
	All acceptance criteria were met	Feature has been merged into the mainline	No build failures
	All tests are passing	All acceptance criteria were met	All acceptance criteria were met
	No known errors	Product owner approved features	Product owner approved features
	Documentation updated	All tests are passing	All tests are passing
	Bill of materials updated	Peer code review passed	Peer code review passed
		Developers agreed to release	Developers agreed to release
		Documentation updated	Documentation completed
		Bill of materials updated	Bill of materials completed
			UAT (Siemens) approved

Type	Link / reference

\	Context	Name	Version	License	Comment
hyperledger/indy-sdk: indy-sdk (github.com)	official SDK for Hyperledger Indy, which provides a distributed-ledger-based foundation for self-sovereign identity	Indy-SDK	1.16.0	Apache License 2.0	
hyperledger/indy-node-monitor	Indy Node Monitor is a set of tools for monitoring the status of an Indy Ledger by querying the validator information of the nodes of the ledger	Indy Node-Monitor	0.4.0	Apache License 2.0	
https://github.com/grafana/grafana	Grafana as a visualization tool for querying, visualizing metrics of Hyperledger Indy Nodes	Grafana	8.5.0	GNU Affero General Public License v3.0	
https://github.com/prometheus	Database for Grafana	Prometheus	2.35.0	Apache License 2.0	
https://github.com/hyperledger/indy-vdr	A library and proxy server for interacting with Hyperledger Indy Node ledger instances	Indy-vdr	0.3.4	Apache License 2.0	
https://github.com/prometheus/node_exporter	Prometheus exporter for hardware and OS metrics	Node-Exporter	1.3.1	Apache License 2.0	

Last Name	First Name	Value					
Hemanna Geethakumary	**Murali Krishna**	-		#DIV/0!	#DIV/0!		
Rosenberger	**Julian**	-					
López Caballero	**David**						
Hoang	**Pham Minh Khai**	-		0	No size		
Ali	**Muhammad**	-		1	Trivial size		
Kokardekar	**Gaurav**	-		2	Small size		
Sandrini	**Anna-Maria**	-		3	Medium size		
				5	Large size		
				8	Very large size		
				13	Too large (size)		