

Project Name	NFT Playbook	
Online team meeting	https://fau.zoom.us/j/3837513668	
Production system (if any)	...	
Test system (if any)	...	
Happines Index	https://happy-amos.appspot.com/Project?project=6309985969504256&course=4791918638661632	
GitHub repository	https://github.com/amosproj/amos2022ss07-nft-playbook	
GitHub kanban board (project)	https://github.com/amosproj/amos2022ss07-nft-playbook/projects	
GitHub Slides	https://github.com/dirkriehle/amos-course/tree/main/Generated/Lecture%20slides	
Team T-shirt (white)	https://www.shirtinator.de/loadBasket/_3v8qHAFTpV	
Team T-shirt (black)	-	
Additional materials	...	
Google Drive Link	https://drive.google.com/drive/folders/15LVl6MDP8iO_iAu4pZdy2X0DyU4kXmWl	
Communication Channel	https://mm.phildree.de/amos-dev	
Homework File	https://docs.google.com/document/d/1Lfi9pyeh-xWk1wJCQhiwSFgJlI6zEdHNs6-yTb9BWYw/edit#	
Mailverteiler	amos-proj7@group.riehle.org	

Last Name	First Name	GitHub User Name	Email Address	WhatsApp Number
Dikov	Hristo	dikovh	hristo.dikov@fau.de	WA-Gruppe bereits vollständig
Dreesens	Philipp	phildree	philipp.dreesens@fau.de	WA-Gruppe bereits vollständig
Schilling	Johannes	schlingling	jsh.schilling@fau.de	WA-Gruppe bereits vollständig
Wolfrum	Lukas	lukaswolfrum	lukas.wolfrum@fau.de	WA-Gruppe bereits vollständig
Al-Sheikh	Tawfeek	tawfeeka	toofe.al-sheikh@fau.de	WA-Gruppe bereits vollständig
Rotsching	Lukas	lukas-rotsching	lukas.rotsching@fau.de	WA-Gruppe bereits vollständig
Schwarzmann	Sebastian	MPSebastian	sebastian.schwarzmann@fau.de	WA-Gruppe bereits vollständig
Kurz	Noah	Noah-Kurz	noah.kurz@fau.de	WA-Gruppe bereits vollständig
Schlenger	Johanna	laila-rin	johanna.schlenger@fau.de	WA-Gruppe bereits vollständig

Goals	Involve every teammember to unlock its best potential	
	Be helpful and respectful to each other	
	Achieve customers satisfaction by providing a solution which covers all requirements	
Meeting norms	Nobody is late for a meeting and values the others limited amount of time	
	Every team member focuses on the customers satisfaction, not on technical details	
	Everyone comes prepared to the meetings	
Working norms	Everone is 100% motivated, 100% committed to the team and gives 100% the best to reach the overall project goal	
	Everyone works an equally amount (especiall SD). If someone has too less to do, (s)he has to ask actively for involvement	
	We support each other	
Coordination norms	Every task is assigned to exactly one person. If the person needs support, (s)he asks actively for it	
	Every Taskowner bears the responsibilty, to deliver results until the committed due-date	
Communication norms	Every team member checks all message channels at least one time per day in working day and reponses if necessary	
	Respect everyone's opinion	
	Response at least on the next day	
Consideration norms	All product feature decisions are made from the Product Owner	
	The team votes for a final decision if the whole projects gets impacted, Disagreements has to be discussed immediatly	
Cont. improvement norms	Quality concerns have to be communicated immediatly	
	Team spirit concerns have to be communicated immediatly, the Scrum Master has the responsibilty to solve them asap	
Rewards	We honor every sprint release	
	We drink some beer in periodic physical team building events	
Sanctions	Every violation of the team contract has to be communicated immediatly	
	The team votes for a sanction TBD	
Signed by	Dikov	
	Dreesens	
	Schilling	
	Wolfrum	
	Al-Sheikh	
	Rotsching	
	Schwarzmann	
	Kurz	
	Schlinger	

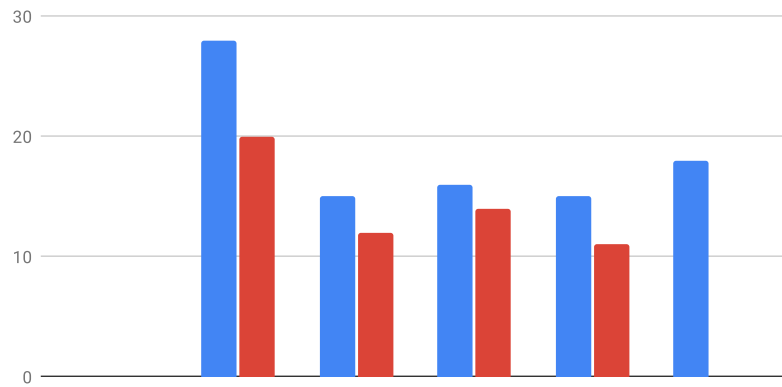
#	Meeting Day	Uni	Comment	Product Owner	Software Developer	Release Manager	Scrum Master
1	2022-04-27			Noah Kurz, Lukas Wolfrum	Everyone else	-	Hristo Dikov
2	2022-05-04			Noah Kurz, Lukas Wolfrum	Everyone else	Johannes Schilling	Hristo Dikov
3	2022-05-11			Noah Kurz, Lukas Wolfrum	Everyone else	Sebastian Schwarzmänn	Hristo Dikov
4	2022-05-18			Noah Kurz, Lukas Wolfrum	Everyone else	Tawfeek Al-Sheikh	Hristo Dikov
5	2022-05-25			Noah Kurz, Lukas Wolfrum	Everyone else	Rotsching Lukas	Hristo Dikov
6	2022-06-01			Noah Kurz, Lukas Wolfrum	Everyone else	Philipp Dreesens	Hristo Dikov
7	2022-06-08		Mid-term due	Noah Kurz, Lukas Wolfrum	Everyone else	Johanna Schlenger	Hristo Dikov
8	2022-06-15			Noah Kurz, Lukas Wolfrum	Everyone else	Johannes Schilling	Hristo Dikov
9	2022-06-22			Noah Kurz, Lukas Wolfrum	Everyone else	Sebastian Schwarzmänn	Hristo Dikov
10	2022-06-29			Noah Kurz, Lukas Wolfrum	Everyone else	Tawfeek Al-Sheikh	Hristo Dikov
11	2022-07-06			Noah Kurz, Lukas Wolfrum	Everyone else	Rotsching Lukas	Hristo Dikov
12	2022-07-13			Noah Kurz, Lukas Wolfrum	Everyone else	Philipp Dreesens	Hristo Dikov
13	2022-07-20			Noah Kurz, Lukas Wolfrum	Everyone else	Johanna Schlenger	Hristo Dikov
14	2022-07-27		Demo day!	Noah Kurz, Lukas Wolfrum	Everyone else	Johannes Schilling	Hristo Dikov
15	2022-08-03		Retrospective	Noah Kurz, Lukas Wolfrum	Everyone else	Sebastian Schwarzmänn	Hristo Dikov

Product Vision	Project Mission
<p>We believe that NFTs have a great potential for companies, artists and private persons. Nevertheless, NFTs are currently either seen as nerdy gadget or rocket science.</p> <p>With this product, we want to change that. We want to demystify NFTs by enabling enthusiast to create NFTs with the least possible effort to focus on their particular use case, not having to think about the NFT creation process itself. Through this, we reach increasing acceptance and distribution of the technology.</p> <p>In the end we want to make the world a tiny bit better by for example ensuring digital property rights, enabling identification in a decentralized manner without being dependend on an administering instance.</p>	<p>The mission of this project is to create a CLI which enables users to create NFTs on the blockchains Polygon, Flow and Solana.</p> <p>Two major use cases will be supported.</p> <p>Firstly, for showcasing how easy NFTs can be created, the CLI has a manual input option where the user can select the blockchain and edit features of the NFT like name and a picture. After that the NFT can be created with a simple command.</p> <p>Secondly, NFTs can be mass produced to include their functionalities in projects. For this, mass deployment can be achieved by defining the features of each NFT individually in a JSON file. The JSON is then read by the CLI and the NFTs are created.</p>

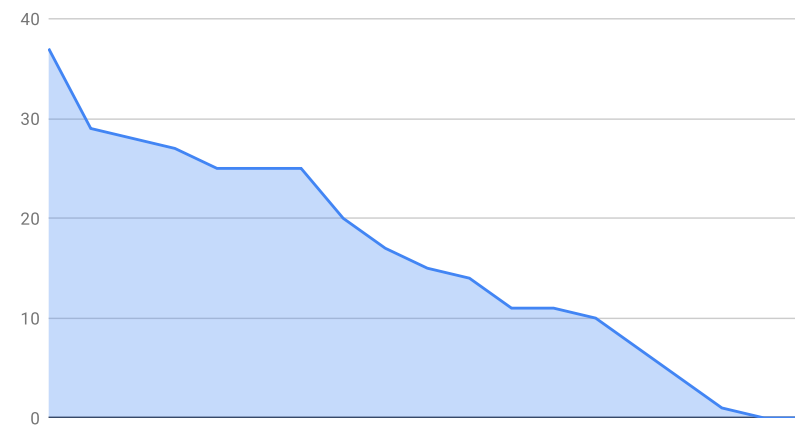
Term	Definition
Non-fungible Token / NFT	Digital asset stored in a blockchain. Every NFT can have an owner. The owner is entitled to sell or use the asset. It differs from usual crypto currency that every NFT is individual / non fungible. The individuallity is often associated with a hashed picture stored in the NFT contract.
Wallet	A digital purse for crypto-assets, NFTs and other crypto currencies.
Minting	Process of turning the information from the CLI into a valid NFT. The process includes writing the NFT contract on the blockchain
CLI	Command line interface. Program to take input parameters from the user, store them temporarily and then write them on the contract.
(Smart) Contract	Intelligent contract based on computer protocolls. Is the underlying technology of NFTs and used to store the information like the associated picture and the owner.
Blockchain	A cryptographically secured append-only database which history is immutable.
Ethereum	Cryptocurrency and blockchain which is used to create smart contracts and pay assets.
Flow	Cryptocurrency and blockchain which is used to create smart contracts and pay assets.
Solana	Cryptocurrency and blockchain which is used to create smart contracts and pay assets.
Mainnet	A blockchain which is used for real world applications and transactions.
Testnet	A blockchain which is used for development purposes only.
Hash	Individual result of an hash function. Can be used to identify pictures and associate them to NFTs.

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
1	Organizational Project Setup	Get to Know Each Other and the Tasks						57
			Sum		0		0	
2	Technical Project Setup	Create Setup for Devops & CLI						
			#1 Setup CLI Basic Architecture	8		3		54
			#3 Mint NFT on Ether Based Chain	8		8		46
			#11 Create Devops Setup	8		5		41
			#7 Setup CLI	3		3		38
			#9 CLI Greets User	1		1		37
			Sum		28		20	
3	Frontend & Backend Architecture and Functionality	Create a Backend that can Interact with the CLI						
			#20 NFT Settings CLI	3				37
			#27 Refactoring Backend	8		8		29
			#16 Homescreen for CLI	1		1		28
			#10 Help Function CLI	1		1		27
			#17 Blockchain Selection CLI	2		2		25
			Sum		15		12	25
4	Frontend & Backend Connection	Extend the Functionality of the Frontend with the Backend						
			#31 Research Pic to Hash Conversion	3				25
			#41 Interface for Backend Frontend Communication	5		5		20
			#39 Solidity Contract for NFTs	3		3		17
			#21 Create NFT Function CLI	1		2		15
			#20 NFT Settings CLI	1		1		14
			#40 Connections to Frontend for NFT Information	3		3		11
			Sum		16		14	
5	Feature Refinement and Wallet Connect	Add the Possibility to Connect with a Wallet and Refine Existing Minting Features						
			#49 Select Wallet Feature CLI	2				11
			#45 Handling Sensitive Data	1		1		10
			#30 Logical Structure for Wallet Integration	5		3		7
			#31 Research Pic to Hash Conversion	3		3		4
			#29 Research "Add Wallet Feature"	3		3		1
			#50 "Add Wallet Feature" in CLI	1		1		0
			Sum		15		11	0
6	Picture Hashing and Refinement for Mid-Project Release	Add the Possibility to Create a Hash from a Picture and Polish Existing Features for Release						
			#62 Submit Deliverables Sprint-06	8		?		
			#67 Connect Middleware to Front- and Backend	3		?		
			#32 Integrate Piniata as IPFS Service	3		?		
			#33 Gas fee prediction	3		?		
			#51 Update CLI Texts	1		?		
			Sum		18			

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



Burn-Down-Chart

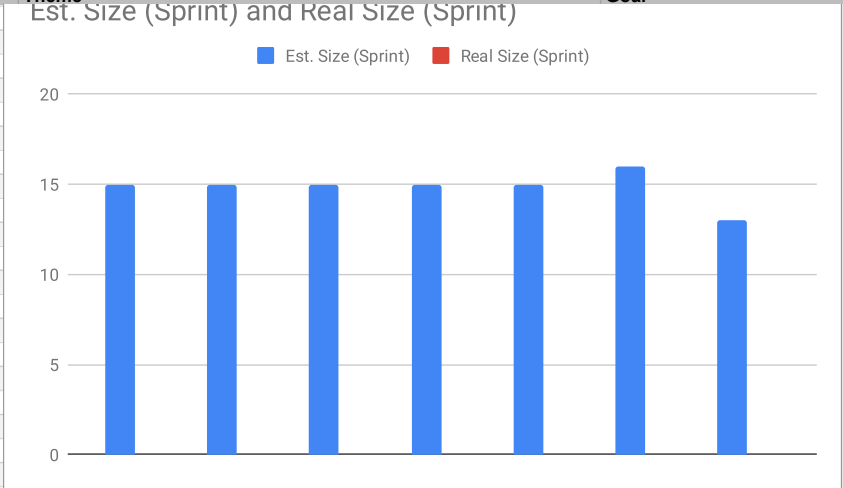
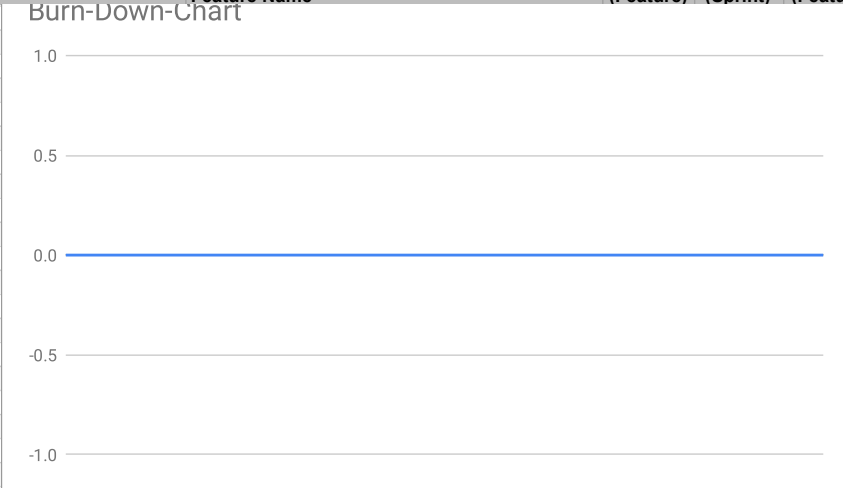
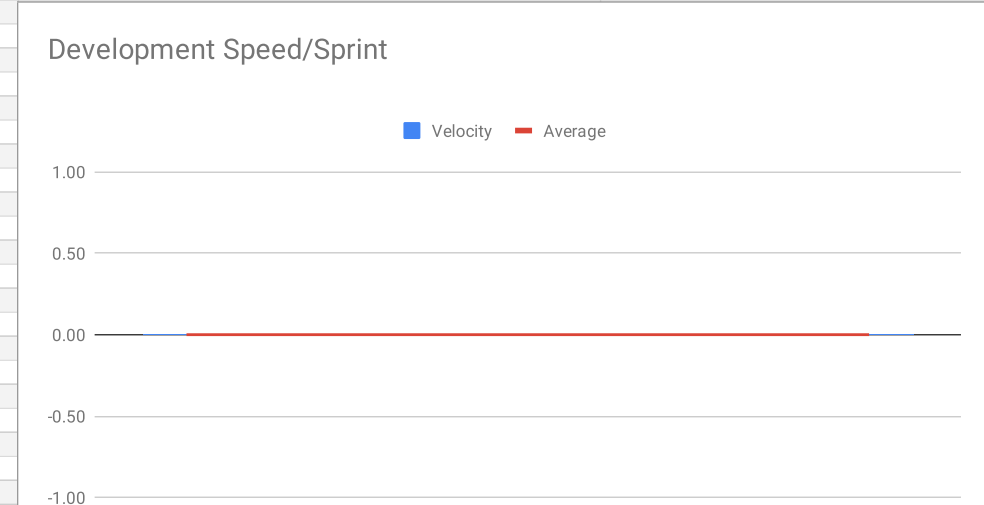


Sprint	Velocity	Average
1	-	9.59
2	10.00	9.59
3	10.67	9.59
4	11.50	9.59
5	8.60	9.59
6	7.17	9.59

Development Speed/Sprint



[illegible]

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
Est. Size (Sprint) and Real Size (Sprint)			Burn-Down-Chart					
								
Sprint		Velocity	Average					
	7	0.00	0.00					
	8	0.00	0.00					
	9	0.00	0.00					
	10	0.00	0.00					
	11	0.00	0.00					
	12	0.00	0.00					
	13	0.00	0.00					
Development Speed/Sprint								
								

[illegible]

[illegible]

Type	Link / reference

\	Context	Name	Version	License	Comment
		@nrwl/cli	14.01.02	MIT	taskexexutor for build system
		@nrwl/eslint-plugin-nx	14.01.02	MIT	linter
		@nrwl/jest	14.01.02	MIT	testing
		@nrwl/js	14.01.02	MIT	java script-Adaption for mono-Repo
		@nrwl/linter	14.01.02	MIT	linter-Adaption for mono-Repo
		@nrwl/node	14.01.02	MIT	node-Adaption for mono-Repo
		@nrwl/workspace	14.01.02	MIT	mono-Repo
		@types/jest	27.04.01	MIT	testing
		@types/node	16.11.07	MIT	NodeJS Framework for Java Script
		@typescript-eslint/eslint-plugin	05.18.0	MIT	linter
		@typescript-eslint/parser	05.18.0	MIT	linter
		eslint	08.12.00	MIT	linter
		eslint-config-prettier	08.01.00	MIT	linter
		eslint-plugin-prettier	04.0.0	MIT	linter
		jest	27.05.01	MIT	testing
		nx	14.01.02	MIT	build system
		prettier	02.05.01	MIT	linter
		ts-jest	27.01.04	MIT	typescript for testing
		ts-node	09.01.01	MIT	typescript for node
		typescript	04.06.02	MIT	typescript for java script

Last Name	First Name	Value					
Dikov	Hristo						
Dreesens	Philipp			2.67	NOK		
Schilling	Johannes						
Wolfrum	Lukas						
Al-Sheikh	Tawfeek	3		0	No size		
Rotsching	Lukas	2		1	Trivial size		
Schwarzmann	Sebastian			2	Small size		
Kurz	Noah			3	Medium size		
Schlinger	Johanna	3		5	Large size		
				8	Very large size		
				13	Too large (size)		
Source:	https://t2informatik.de/wissen-kompakt/planning-poker/						