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Project Team

Last Name	First Name	GitHub User Name	Email Address	Prefered Role / Technical Area
Tech	Berinike	BerinikeTech	niketech@web.de	Blockchain / Solidity
Heil	Dominic	dominic-heil	d.heil@campus.tu-berlin.de	CI / CD - React - JS - (Python Backend)
Steinkohl	Felix	steinkohl	steinkohl@campus.tu-berlin.de	CI / CD - Backend (- Frontend)
Stender	Nick	Floinko	stender@campus.tu-berlin.de	Backend
Ehmendörfer	Christoph	krisutofu	christoph.ehmendoerfer@campus.tu-berlin.de	jump in (Backend / Frontend)
Pilgrim	Jannis	NonFT	jannis.pilgrim@gmail.com	Database / Python
Le	Ba Que	tuilagio	b.le@tu-berlin.de	Frontend (React) - Python backend
Naumov	Nik	NickZecamp	nikum@live.se	JS, UI/UX

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Project Data

Project Name	NFT the world!
Production system (if any)	https://amosproj.github.io/amos2021ws07-nft-development/
Test system (if any)	
GitHub repository	https://github.com/amosproj/amos2021ws07-nft-development
GitHub kanban board (project)	https://github.com/amosproj/amos2021ws07-nft-development/projects/1
Team T-shirt (white)	https://www.shirtinator.de/loadBasket/hQlmSTVUG0E
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/hQlmSTVUG0E
Additional materials	
7. a.m	https://bu.b.orlin.zoom.us/i/CE003C470EE2pud=\/\// LUZ//2lp\//20=\/\// bubE/\/\//bubL/Z0dp\/\/Z=00
Zoom	https://tu-berlin.zoom.us/j/65882617955?pwd=WHJKV3lnN20zNWUvbFMwbHZ0dnNyZz09
Jitsi (fallback)	https://meet.innocampus.tu-berlin.de/amos7
Happiness	https://happy-amos.appspot.com/Project?project=6300169943384064&course=6014071715397632
• •	
Slack	https://join.slack.com/t/campus-xuz7131/shared_invite/zt-xqnhb1i9-hzKoRSLynqkTrq_w8mNA

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Role Assignments

#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Release Manager	Scrum Master
1	2021-10-21		Yes	Christoph	Everyone else	N/A	Coach
2	2021-10-28		Yes	Nick	Everyone else	Christoph	Coach
3	2021-11-04		Yes	Nike	Everyone else	Dominic Paul Christian	Coach
4	2021-11-11		Yes	Dominic	Everyone else	Que	Coach
5	2021-11-18		Yes	Christoph	Everyone else	Nikita	Coach
6	2021-11-25		Yes	Nick	Everyone else	Felix	Coach
7	2021-12-02	Mid-project release due	Yes	Christoph	Everyone else	Jannis Max	Coach
8	2021-12-09			Nick	Everyone else	Nick	Coach
9	2021-12-16			Christoph	Everyone else	Berinike	Coach
10	2022-01-13		Yes	Christoph	Everyone else	Nick	Coach
11	2022-01-20			Nike	Everyone else	Dominic Paul Christian	Coach
12	2022-01-27			Felix	Everyone else	Que	Coach
13	2022-02-03		Yes	Felix	Everyone else	Nikita	Coach
14	2022-02-10	Demo day / final release		Felix	Everyone else	Jannis Max	Coach
15	2022-02-17	Project retrospective due		Felix	Everyone else	Felix	Coach

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Product Goal

Product Vision	Project Mission
NFTs allow for a secure, easier and independent way of making an earning as an artist or creator. NTFs therefore have potential for the worldwide community to empower more people to produce and supply in the digital realm, without profitmaking intermediaries that cause transaction and marketing costs. Other advantages of digital crypto tokens can be transparency, trust-safety, decentral storage (not controlled by big institutions) and potentially helpful in legal issues, without the need for payment processors and banks.	Our project can contribute to the vision by creating a reusable example application which manages NFT Drops and automatizes important steps in order to facilitate earning money with own NFTs. As an open source project, the result can be used by individuals and companies, to easily create and provide NFT sales for their own marketing strategies, metaverses, profit or online campaigns for several non- or commercial purposes.
Public blockchains with transparent transactions could help to recognize illicit and criminal money flows like corruption and tax robbery schemes. An important use case for NFTs therefore are ownership and objects in Metaverses and games.	A private secondary market mechanism is supported for a deeper relationship between customers and the market owner.
Additionally, NFT markets allow for new products and business models like crypto games or crypto funding. It features security/protection which is useful for practically every digital company.	

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Product Glossary

Term	Definition
Non-fungible Tokens (NFT)	Digital assignment of an owner (wallet) to digitally represented asset, stored in a blockchain. It is an entitlement to sell or use certain asset. It differs from usual crypto currency that every NFT has an individual value.
fungible token	Indicator of financial asset which is used to buy goods/services and is fully interchangeable with other fungible tokens of the same kind
wallet	A digital depot for crypto-asset, NFTs and other crypto currency.
(NFT-)drop	An event where a collection of NFTs first hits the market, become buyable and are delivered to buyers. Pre-drop reservations possible.
(NFT-)drop	Similar to what is a playlist on YouTube but with NFTs.
minting	Process of turning digital asset into a valid valuable NFT.
blockchain	A cryptographically secured append-only database whose history is immutable. This makes it perfect for high-security applications like finance.
Ethereum	Company and the eponymous popular blockchain. It supports NFTs and (fungible) crypto currency.
Ether (ETH)	Cryptocurrency used with Ethereum
Kovan	A Ethereum testnet where ETH are easy and free to get online, but in limited rate of course.
Mainnet	A production blockchain that is used for valuable transactions.
Testnet	A blockchain for testing purposes. Content and currency in the test net do not have real value.
announcement	A News section with title and content which is displayed to visitors of the site.
faucet	Source for obtaining crypto currency, particularly for test currency like the one that is used in Kovan.
Verified partner	User account without admin privileges which can compose and triggger own NFT-drops in the app.
NFT Studio	A page where NFT asset components can be uploaded, sorted into folders, and composed as one NFT for the Drop Workshop. Example: NFT arranged as multiple rectangular panels where each represents a random image from one folder.
Drop Workshop	A page accessible to Admins and verified partners where NFT-drops can be created, deleted, published/announced and triggered.
User Sales	Process for an interested registered user of buying the offer of another registered user
User Resales	Process for a registered user of offering an owned NFT for other registered users to buy
NFT Variety	A feature, theme or (sub)category that is shared among some circulating or dropped NFTs. Example: red nose, christmas, horses,
NFT Rariety	A measure for how common an NFT variety is. Can be an absolute count or relative percentage.
NFT template	The draft that is created in the NFT studio. It is used to generate NFTs when the associated drop is executed.
NFT component	A single subpart of an NFT that is filled with a random image and can be contained in multiple NFTs. (Our final NFTs probably will only consist of only one component.)

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Team Contract

Goals	We want to learn about agile methods, good team work and practice team work. We want to build a cool open-source piece of software and "valuable" NFTs.
Meeting norms	We meet at least once a weak during the project.
	Please excuse yourself when you know that you'll be missing (like illness, important appointment) otherwise we want to not more than 15min late but on time in the average case. Single lapses or emergencies are permissible.
	We try to reach consensus where possible. As last resort we respect the majority rule for decisions which affect the whole team. Exceptional decisions for individual team members are possible for special circumstances.
Working norms	We participate fairly. It doesn't mean that everyone is equally fast or performing but that we are willing to invest time like others are.
	We individually contribute to the project to perform for our Credit Points. Work is distributed in team meetings together.
	Team work should be a safe space for everyone and allow for clarifying work or personal conflicts or appropriate criticism. You may contact Jule as person of trust for non-technical problems and as mediator for anonymous criticism.
	We value quality over quantity, maintainability over many features.
Coordination norms	No one is forced to do something s/he really doesn't want. Volunteers are considered first. If no one is willing to do a task and assignment is needed then democratic allocation.
	We let others say their (valid) opinion and avoid insults, harassment, discrimination due to individual properties like gender, color We don't expect each other to respond during weekends. We expect responses in 48h within week. We try to answer at least next day. We use team Channels on Slack for help.
Communication norms	We confess that nobody is perfect. We accept criticism of ourselves and permit others to correct us.
Consideration norms	We try to clear misunderstanding and create understanding instead of bashing others for disagreement. We don't want to be self-opinionated and give examples rather than just stating to be right.
Cont. improvement norms	There is continous review of code and our wellbeing by using the "happyness index". We will use Scrum-relaed methods to track progress. Coding, Style and review rules and guidelines are respected for the reason of code health and team work. Syntax Formatters will be used if they are needed to ensure style guidelines. If someone can't finish story points over two weeks then we try to find a solution for improvement. Workload estimation isn't perfect. We will tell if work turns out to be more effort than estimated.
Rewards	People will be granted NFTs under applause. 2 Story Points = 1 NFT.
Sanctions	People who clearly violate rules multiple times should either write a poem, do extra work or obtain remaining User stories instead of free choice.
Signatures [optional picture]	I hereby declare to try and be willing to comply with our team contract [required]:
Unistoph Elmandorfer	
V	Christoph Ehmendörfer
	Nick Stender
	Berinike Tech

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Team Contract

SteFel	Felix Steinkohl
Que	Que
	Dominic Heil
	Jannis Pilgrim

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Mid-Project Release Tracking

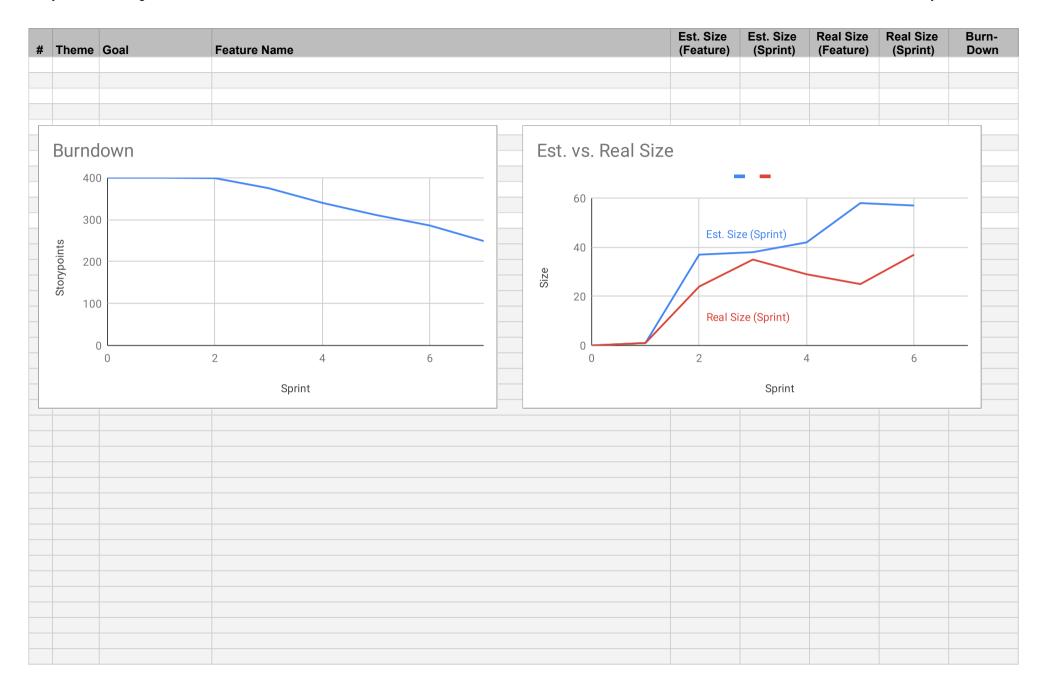
#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
0	course	organization			0		0	400
1	setup p	roject & team wor	rk		1		1	400
		getting to know	the project vision, mission and work-ready					
			hello world project	1		1		
2	require	ments engineerin	g & tech stack		37		24	399
		knowing the cor	mponents of the application					
			requirements engineering website	5		3		
			choose database	3		1		
			slack channels	1		1		
			frontend technology stack	2		3		
			backend technology stack	3		5		
			smart contract requirements	5		3		
			blockchain technology stack	5		3		
			Frontend Mockup for Join Drop	5		5		
			getting infrastructure	3		x		
			endpoint definition for backend	5		X		
3	first use	e of technology			38		35	375
		github integration	on, wallet creation, blockchain setup, frontend					
		running a mock						
			Website Signup (Backend)	5		8		
			Website Signup (Frontend)	0		2		
			Github Workflow for Backend Linting	2		3		
			Hello World Smart Contract	3		3		
			Design Team Logo	?		?		
			Wallet Creation For Team Members	1		1		
			Frontend Mockup for announcements	5		5		
			Frontend Mockup for NFT market place	5		5		
			deploy server	5		x		
			getting infrastructure	3		x		
			Wallet Connection to Account (frontend)	3		x		
			Wallet Connection to Account (backend)	3		5		
			User Information in Database	3		3		
4	Fundan	nental Smart Con	tract and User Logic		42		29	340
		announcement	mechanism, Drop mechanism in smart contract					
		enhanced user						
			Drop Time Functionality in smart contracts	5		5		
			random NFT assignment smart contract	8		8		
			Nuremburg NFT image creation	3		5		
			team assignment of a user (backend)	5		3		

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Mid-Project Release Tracking

5 We	ebsite design announcement design impleme	team assignment of a user (frontend) getting infrastructure Deploy Server announcement database backend endpoint s, smart contract usability enhancements entation part 1 Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing Human-readable Drop Time format	5 3 5 8 1 3 3 3	58	5 3 x x 1 3	25	311
We	announcement	Deploy Server announcement database backend endpoint s, smart contract usability enhancements entation part 1 Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	5 8 1 3 3 3	58	x x	25	311
We	announcement	announcement database backend endpoint s, smart contract usability enhancements entation part 1 Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	1 3 3 3	58	1 3	25	311
i We	announcement	s, smart contract usability enhancements entation part 1 Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	1 3 3 3	58	1 3	25	311
5 We	announcement	Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	3 3	58	3	25	311
		Register and configure domain NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	3 3		3		
		NFT purchase limit Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	3 3		3		
		Design FAQ Branding & Color Scheme Github workflow for automatically deployed testing	3				
		Branding & Color Scheme Github workflow for automatically deployed testing	3		3		
		Github workflow for automatically deployed testing					
					1		
		Human-readable Drop Time format	13		x		
			2		x		
		Removal of sensitive data from Github	3		3		
		Deploy Server	5		x		
		Wallet Connection to Account (frontend)	3		3	?	
		Design implementation landing page	3		x		
		Design implementation of password/login pages	3		x		
		Design implementation for page header and footer	3		3		
		announcement database backend endpoint	8		8	?	
		announcement creation, modification, display in frontend	5		x		
Wa	llet Connection & Ani			57		37	286
		byment and testing for cloud functions, smart contract requirements entation, finish wallet connection & announcements					
		Deploy Server	5		5		
		Github workflow for automatically deployed testing	13		X		
		Design implementation mockup password/login pages	3		3		
		Design implementation of FAQ page	3		3		
		Blockchain implementation of multiple NFT drops	5		5		
		Implementation of announcement lists and edit page (frontend)	5		8		
		"Buy NFT" button (frontend)	3		5		
		Access Wallet Asset information from backend	8		х		
		Design mockups for upcoming and owned (bought) NFT-listings	3		3		
		Design mockups for header and footer on mobile devices	3		2		
		Move wallet settings into profile (frontend)	3		3		
		Design implementation of landing page	3		x		
		, , , , , , , , , , , , , , , , , , ,					
•							249

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Mid-Project Release Tracking

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

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Impediments Backlog

Sprint	Status	Source	Impediment	Resolution
1	Resolved	Nike	Communication - feeling of people pretending to be "superior"	Democratic voting before deciding things Slack: Poll Function Zoom: Reactions
1	Resolved	Nick N	Chaotic in general	Getting used to the process with more time If needed: coaching sessions with Jule
1	In-work	Nick S	Work quite late - finish last minute	Try to start work already at the beginning of the sprint Polls to ask for problems
1	Resolved	Nick S	Double PO role - hard to communicate; no close collaboration	try to improve communication by having meetings previous to talking with industry partner
1	Resolved	Christoph	Not too much experience in communication within teams/ groups	Give clear instructions to other team mates on how you would like the communication - be on time for the meetings
1	Resolved	Dominic	Unstructured Meetings	Prepare Agenda for the meeting - send it out beforehand have a moderator for the meeting
1	Resolved	Dominic	Unnecessary comments during meetings	Focus on essential topics and try to only talk little about "personal issues" to stay in the timeframe
2	Resolved	Nike	Confusion who needs to write features	Next PO has to write new user stories Only POs write user stories and have an extra slack channel with ideas
2	Resolved	Nick N	Information about project status / vision of project and customer opinions	Summary of Industry meeting by PO> maybe new slack channel?
2	Resolved	Nick S / Felix	Who is responsible for Deliverables?	Second Board on github for project internal things
2	Resolved	Dominic	Everything in general channel	Create new channels in slack for organisation
3	Resolved	Dominic / Christoph	Pull requests all over the place - what should be happening in the review phase? How many people?	Creation of Slack Channel Specify guidelines and agree on it democratically
4	Resolved	Nike	Review Comments were unclear	Put into guidelines - clear suggestions for the code review
4	In-work	Christoph/Felix	Improvement of branch naming / management	Suggestions and democratic vote on branch structure Include it as user story (PO)
5	Resolved	Dominic/ Que	Pull requests take too long - too long of discussions	Accept small deviations from guidelines - give feedback but still grant review
5	Resolved	Nike	Waiting for reviews more than 48hrs	Vote in Slack Channel for time limit for review process
5	Resolved	Dominic	We are not up to date about others' status	More regular Stand-up Mails by everyone with longer description
5	Resolved	Nick S	Work is not focused on most important things	Focus on tickets and reviews you are assigned to
6	Resolved	Christoph	Commit messages should be improved	Should include more "what the commit does" not longer than a few sentences
	Resolved	Christoph /Dominic	Takes long to finish large features - marked as merged should really by mergeable	Make more use of draft pull requests for long stories >> Slack Channel discussion Decide specifically on when to draft
6	Resolved	Nick	Issues are too large	Split them into more issues

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Impediments Backlog

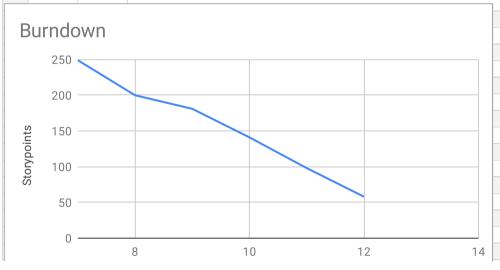
Sprint	Status	Source	Impediment	Resolution
7	In-work	Christoph	Spending too much time on the project - effort is not according to university project	Take less features into the sprint
8	Resolved	Christoph	Need for better meeting notes - people don't know what happened with André	Please make sure that everything is documented as a protocol
8	In-work	Nick S	Missing reviews	When assigning reviews - assign people to tickets directly
8	Resolved	Nick S	Release Plan	Questions on how to handle open / not planned items
8	Resolved	Dominic	Requirements are increasing while planning more work	Define smaller MVP - what needs to be done for this MVP Collaborate with André
8	Resolved	Que	Concerned about scope of project	Focus on most important features - only on a small MVP
9	In-work	Nike	Reviews all over the place	When assigning reviews - assign people to tickets directly

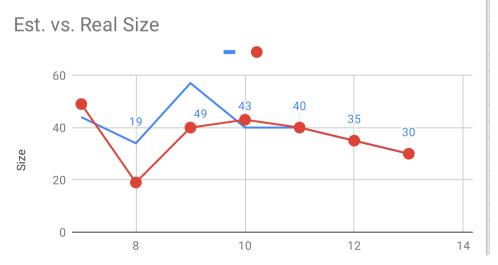
fire	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
	Towards		T-Drop		44	,	49	249
			ing implementation, proper announcement design, user purchases, admin triggered drop					
			Organize stable server deployment	2		2		
			Github workflow for automatically deployed testing	13		13		
			Design profile mockup	3		5		
			Implement proper design for the current announcements	3		3		
			IPFS URIs for NFT-drop creation	x		x		
			Enable security against fraudulent NFT-drops (blockchain)	3		3		
			Blockchain NFT-Drop Creation with NFT prices	3		3		
			NFT minting process (Blockchain)	5		8		
			Create Drop by URI	1		1		
			Implementation of public view of available-NFT-drop listing (frontend)	5		5		
			Implementation of application header and footer for mobile devices (frontend)	3		3		
			Implementation of landing page design	3		3		
			Access Wallet Asset information from backend	x		x		
8	Reachin	g The Di	тор		34		19	200
		NFTs ar	gible user roles (Admins, authorized validated users) can create NFT drops. e distributed randomly to users after drop takes effect. d CI pipeline stands.					
			Design additional list of NFT drops with banner countdown on landing page	3		5		
			Blockchain alternative distribution mechanic for unsold NFTs	5		x		
			Blockchain buying timespan for reserved NFTs after NFT-drop is executed	5		x		
			Addition of authorized verified partner as team role	1		1		
			Implementation of view of a user's NFT collection	3		X		
			System tests with Cypress for CI	3		5		
			Save and show announcement creator information	2		2		
			Adding the creation of announcement database collection to CI	3		x		
			New NFT Drop Creation	3		X		
			Implement proper Design for Announcements	3		3		
			Create mockups for joinDrop	3		3		

fire	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
9 I	NFT Dro	p Create	ors encountered!	,	57		40	181
		Some N	ation of the previous sprint goal. IFTs are only accessible/viewable in this closed market like private-user-NFTs. phase is finished now.					
			Blockchain alternative distribution mechanic for unsold NFTs	5		3		
			Blockchain buying timespan for reserved NFTs after NFT-drop is executed	5		5		
			Implementation of view of a user's NFT collection	3		3		
			Adding the creation of announcement database collection to CI [missing review]	3		x		
			New NFT Drop Creation	3		3		
			Design update for individual NFT's info page	5		3		
			Implementation of user profile (frontend)	5		x		
			Implementation of updated landing page design part 1	8		5		
			Design for the NFT Studio - simple NFT Builder, upload feature, NFT Drop creation	5		8		
			Access constraints for different User roles (frontend) [including verified partners]	2		2		
			Design implementation of NFT drop countdown banner	3		3		
			Smart Contract size reduction for deployment [still needs manual merge]	5		5		
			Storage of NFT drop information in the backend [missed some data access]	5		x		
10 3	Show m	e my NF			40		43	141
		NFTs ca	an be previewed in individual info page.					
			Design Update for NFT Drop presentation page	3				
			Design Implementation of user profile (frontend)	5				
			Adding the creation of announcement database collection to CI	3				
			Storage of NFT drop information in the backend	5				
			Design implementation of NFT info page	5				
			Retrieval of NFT Ownership Data (Blockchain)	5				
			Eligibility Check For Token Minting (Blockchain)	3		3		
			Dummy data replacement with real data (updating many dummy implementations)	8				
			IPFS Upload of example images, maybe first image uploading functionality (usable for NFT studio or drop creation)	3				
						40		
11 I	Uploadir	ng, pleas	se wait.		40		40	98

fire	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
	THOME		NFT data (like images or text files) can be uploaded and stored/retrieved in database.	(i catale)	(Opinit)	(i catalo)	(Oprilit)	DOWN
		omipio i	Design + functionality Implementation of Updated NFT Drop page					
			Automatic NFT resource uploads with IPFS (Frontend)					
			Image Uploading functionality for non-NFT resources?? (announcements, profile)					
			Implementation of NFT info page functionality					
			Store and Retrieve custom content for NFT info and drop page					
			Implement NFT Sorting (filtering) and Banner Functionality					
			Implementation of user-resale functionality					
			, i	40		40		
12	Simple I	NFT Stud	dio		35		35	58
		1	an be created and NFT templates and varieties can be associated with NFT drops.					
			Implement alternative account registration functionality + design					
			Implementation Simple NFT Studio (replaces old NFT Drop Creation)					
			Store and Retrieve NFT variety property					
			Update pages with NFT variety					
				35		35		
13	Refacto		onal goals		30		30	23
		Cleanup Optiona Second Provide	y improvements, fancy addons and design implementation (if time permits). o and refactor code for maintenance and allow for easier future development. il: ary Market functionality (resales). sales history which is listing sales records for NFT (re)sales. tive user registration, embedding twitter chat on site(??), at least a link to Discord??					
			implement NFT info page history feature (backend)					
			implement NFT info page history feature (frontend)					
			Implementation of user-sales functionality					

fire	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			Automatic Announcment of next NFT Drops					
			Automatic Almountaine of Heat (All 1 Brops					
				30		30		
			Design for NFT sale offers to foreign accounts					
			Design mockup for "Drop Workshop" where NFT Drops are created, deleted, published/announced and triggered. (Blockchain interaction)					
			Simple design addition for alternative user registration, e.g. Google,??					
			Design for NFT sale functionality in secondary market					
14								-7
		"Resald	sale by people of the "inner circle", i.e. owners and bidders of NFTs from the past with accest-button for NFTs, price offer option for buyers (when owner selects it). ach resale, the original creator obtains a portion of the price.	count.				
			Advanced Design for individual NFT info page including sales history, and additional info (incl. creation)					
			Implementation of "Drop Workshop" design (dismissed as low prio)					
			Implementation of "Drop Workshop" additional functionality (dismissed as low prio)					





fire Theme Goal	Feature Name	Est. Size (Feature)		Real Size (Feature)	Real Size (Sprint)	Burn- Down
	Sprint		S	print		

AMOS Project 7 - Planning Documents

Definition of Done

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
1	The code is reviewed by at least two people	Release candidate was tagged	User documentation available
2	Every larger component/object/class has a comment/JDoc. Small functions should either be self-explanatory based on the function name or also be commented	Tests for the release candidate were compiled, build and run	Tests for all application critical functions
3	Feature works on the machine of a different team member	Release candidate is deployed to operations environment	
4	Code is in the main branch	Release is tagged with current sprint number	
5	GitHub CI and checks succeed	Documentation available	
6	[Code coverage, testing?]		

AMOS Project 7 - Planning Documents

Documentation

Туре	Link / reference
Requirements Smart Contract	https://docs.google.com/document/d/1S7tHRaEUoF9FJN_28D3lvtelquaD9fRatbvqKY1aE/edit
Software Architecture	https://docs.google.com/document/d/1ta25Bhs-exHCyM281CE_YUDq3FhjdktO6-a7hyEk_kM/edit#heading=h.mpdikrgqtfxb
Server Architecture	https://drive.google.com/drive/u/0/folders/1hSw9R6SqZH5jMlMtA_EySslABxfzBTdA
Website requirements	https://docs.google.com/document/d/1XSkG0V8GKgFLEi4khz0xZapYmKVoykUJ4RExn-6pNFQ
Techstack Frontend	https://docs.google.com/document/d/14XCqHOpMnODqBclcaX0ZpxStfuG5Y1G1mN6UK5PzwNc
Techstack Backend	https://docs.google.com/document/d/1Yrlt-yy85KF359LNd6y0RSpUN8MBhCDcpyzC-geJdtc/edit?usp=sharing
API endpoints for backend	https://github.com/amosproj/amos2021ws07-nft-development/issues/9
Deployment Tech	https://docs.google.com/document/d/1GHmuxU5iK8VqlVWdzi4NaaRJXl9t5dRaCVvw-j-am8U/edit?usp=sharing
Mockups	https://www.figma.com/file/8kdPSVa0kG9BI5xVdLpydr/Untitled?node-id=0%3A1
Review Guidelines	https://docs.google.com/document/d/10FvJg6eY0aQil-MBv8-Md7d4lQxHsAvYcXz1HI5f2cY/edit?usp=sharing
User Manual	

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Bill of Materials

١	Context	Name	Version	License	Comment
1	Frontend framework	React	17.0.2	MIT	
2	Frontend library	Material UI (Core)	4.12.3	MIT	
3	Frontend library	Material UI Icons	4.11.2	Apache License 2.0	
4	Frontend library	ESLint	7.32.0	MIT	
5	Database	MariaDB	10.6.3	GPL, LGPL	Because inclusion in appwrite, Similarity to PostgresDB
6	Backend Framework	Appwrite	0.11.4	MIT	Includes MariaDB
7	Backend Language	Python	3.9	PSF, BSD	
8	Map tiles	OpenStreetMap	2.0	CC BY-SA	https://www.openstreetmap.org/copyright
9	Server depolyment	nginx proxy manager	2.9.12	MIT	https://github.com/jc21/nginx-proxy-manager
10	Backend - Python init script	pandas		BSD	
11	Backend - Python init script	openpyxl		MIT	

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Planning Poker

Last Name	First Name			
Tech	Berinike	TUIVI	TUIVI	
Heil	Dominic	0!	0!	
Steinkohl	Felix	O:	U:	
Stender	Nick			
Ehmendörfer	Christoph	0	No size	
Pilgrim	Jannis	1	Trivial size	
Le	Ba Que	2	Small size	
Naumov	Nik	3	Medium size	
		5	Large size	
		8	Very large size	
		13	Too large (size)	