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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	
Zoom	https://tu-berlin.zoom.us/i/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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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.
Consideration norms	we don't want to be sen opinionated and give examples rather than just stating to be right.
	There is continuous 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.
Cont. improvement norms	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]:
Umstoph Elmundolfer	Christoph Ehmendörfer
1	Nick Stender
	Berinike Tech

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Team Contract

SteFeI	Felix Steinkohl
Que	Que
	Dominic Heil
	Jannis Pilgrim

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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	Nick	Everyone else	Christoph	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

n I	Project Mission
a secure, easier and independent way of making an earning as an r. NTFs therefore have potential for the worldwide community to e people to produce and supply in the digital realm, without profitediaries that cause transaction and marketing costs. Other advantages to tokens can be transparency, trust-safety, decentral storage (not ig institutions) and potentially helpful in legal issues, without the need occessors 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. A private secondary market mechanism is supported for a deeper relationship between customers and the market owner.

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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.

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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 project & team work			1		1	400
	getting to know th	ne project vision, mission and work-ready					
		hello world project	1		1		
2	requirements engineering	& tech stack		37		24	399
	knowing the com	ponents 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		Х		
		endpoint definition for backend	5		X		
3	first use of technology			38		35	375
		, wallet creation, blockchain setup, frontend					
	running a mockup						
		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				42		29	340
	announcement m enhanced user m	nechanism, Drop mechanism in smart contract nanagement					
		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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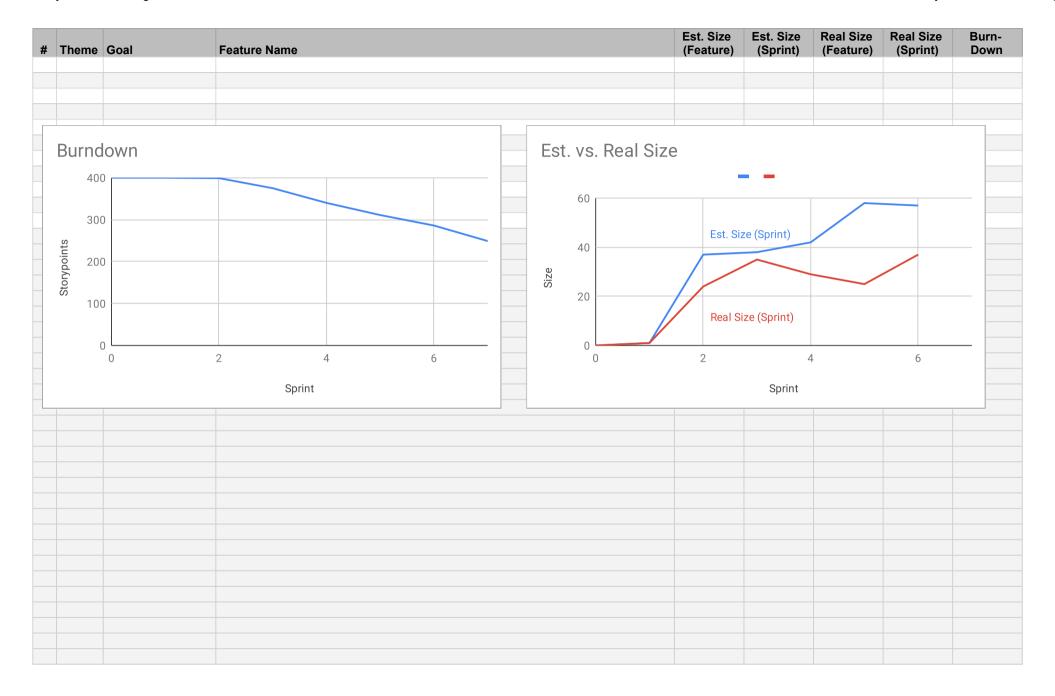
Mid-Project Release Tracking

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			team assignment of a user (frontend)	5	,	5	, ,	
			getting infrastructure	3		3		
			Deploy Server	5		x		
			announcement database backend endpoint	8		x		
5	Website	design			58		25	31 ⁻
			nts, smart contract usability enhancements nentation part 1					
			Register and configure domain	1		1		
			NFT purchase limit	3		3		
			Design FAQ	3		3		
			Branding & Color Scheme	3		1		
			Github workflow for automatically deployed testing	13		x		
			Human-readable Drop Time format	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		х		
			Design implementation for page header and footer	3		3		
			announcement database backend endpoint	8		8	?	
			announcement creation, modification, display in frontend	5		x		
6	Wallet C	onnection & Ar	- · · · · · · · · · · · · · · · · · · ·		57		37	286
			oloyment and testing for cloud functions, smart contract requirements nentation, 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		Х		
7								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
	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
			Pull requests all over the place - what should be happening	Creation of Slack Channel
3	Resolved	Dominic / Christoph	in the review phase? How many people?	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
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	In-work	Christoph	Commit messages should be improved	Should include more "what the commit does" not longer than a few sentences
6	In-work	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
6	In-work	Nick	Issues are too large	Split them into more issues
7	In-work	Christoph	Spending too much time on the project - effort is not according to university project	Take less features into the sprint

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Impediments Backlog

Sprint	Status	Source	Impediment	Resolution

AMOS Project 7 - Planning Documents

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
7	Towards			(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	х		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	х		х		
8	Reachin	eaching The Drop			34		19	200
		NFTs a	gible user roles (Admins, authorized validated users) can create NFT drops. re distributed randomly to users after drop takes effect. d CI pipeline stands.					
			Design mockup for "Drop Workshop" where NFT Drops are created, deleted, published/announced and triggered. (Blockchain interaction)	x		x		
			Design NFT preview and individual NFT's info page	x		x		
			Design additional list of NFT drops with countdown on landing page	3		5		
			Blockchain alternative distribution mechanic for unsold NFTs	5		x		а
			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, only for registered users	3		x		
			Implementation of user profile (frontend)	x		x		
			Frontend tests (Jest, Cypress)	3		5		
			Use-case-like System tests with Pupeteer for CI	x		x		
			Save and show announcement creator information	2		2		
			Add creation of announcement collection to the integration test action	3		x		
			Create new drop	3		x		
			Fix announcement date	0		0		
			Implement proper Design for Announcements	3		3		
			Create mockups for joinDrop	3		3		

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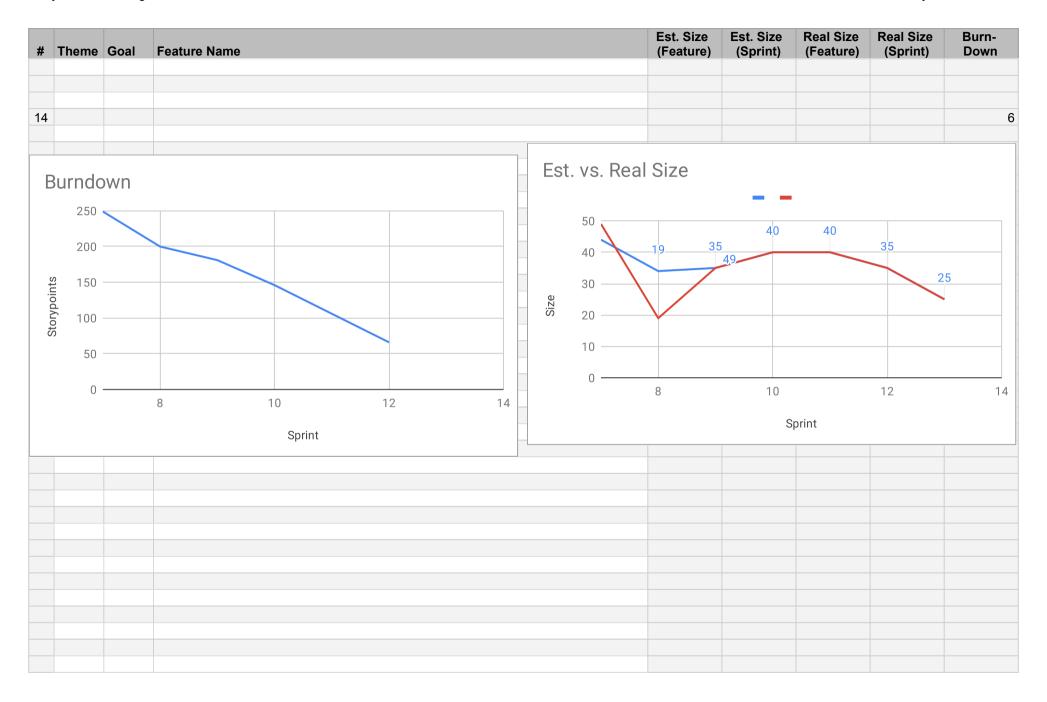
Final Project Release Planning

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
9	NFT Dro	p Crea	tors encountered!	,	35	,	35	181
		Some	uation of the previous sprint goal. NFTs are only accessible/viewable in this closed market like private-user-NFTs. can be previewed in individual info page and optionally in bigger size.					
			Design for the NFT Studio - simple NFT Builder, upload feature, minting button/feature					
			Implementation of "Drop Workshop" design (dismissed as low prio)					
			Implementation of "Drop Workshop" additional functionality (dismissed as low prio)					
			Implementation of NFT preview and NFT info page					
			Implementation of backwards running ticker (belonging to which NFT-drop?)					
			Implementation of image uploading functionality (usable for announcements and NFT studio) (backend)					
			Test cases to ensure account restriction for NFT drop functionality.	35		35		
10	NFT stu	dio			40		40	146
			NFT data (like images or text files) can be uploaded and stored/retrieved in database nnected to drops					
			Design for NFT sale offers offered to foreign accounts via a user profile					
			Design for NFT resale functionality by account owner in profile					
			Design for simplistic NFT preview functionality (no extra page required)					
			Implementation NFT Studio NFT builder part 1					
			Implementation NFT Studio NFT builder part 2					
			Implementation NFT Studio Uploads (Frontend)					
			implementation NFT (easy?) minting process					
			Implementation of announcement images					
				40		40		
11	Closing	the (NF	T) circle		40		40	106
		"Resal Multipl	esale by people of the "inner circle", i.e. owners and bidders of NFTs from the past with accessive e"-button for NFTs, price offer option for buyers (when owner selects it). NFTs can be selected or filtered for easy multi-action and search on all selected NFTs. ach resale, the original creator obtains a portion of the price. NFT can be previewed.	count.				
			Design for NFT preview and individual NFT info page including sales history, and additional info (incl. creation)					
			Simple design addition for alternative user registration, e.g. Google,??					

AMOS Project 7 - Planning Documents

Final Project Release Planning

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
			NFT Studio Follow Up implementation	,	(-1	((-1	
			Implementation of user-sales functionality					
			Implementation of NFT/drop(-list) preview functionality, integration into different pages					
			implementation of mini preview of NFT/drops which get linked to announcements					
			Implementation of user-resales functionality					
				40		40		
12	Lessons	of Histo	ory Channel		35		35	66
		Provide	e sales history which is listing sales records for NFT (re)sales. tive user registration, embedding twitter chat on site(??)					
			Implement alternative account registration functionality + design					
			implement NFT info page basic					
			implement NFT info page history feature (backend)					
			implement NFT info page history feature (frontend)					
				35		35		
13	red, gree				25		25	31
		Usabilit	ry improvements, fancy addons and design implementation (if time permits). p and refactor code for maintenance and allow for easier future development.					
				25		25		



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Final Project Release Plannning

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

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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?]		

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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/1hSw9R6SqZH5jMIMtA_EySsIABxfzBTdA
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/1YrIt-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/1GHmuxU5iK8VqIVWdzi4NaaRJXI9t5dRaCVvw-j-am8U/edit?usp=sharing
Mockups	https://www.figma.com/file/8kdPSVa0kG9Bl5xVdLpydr/Untitled?node-id=0%3A1
Review Guidelines	https://docs.google.com/document/d/10FvJq6eY0aQil-MBv8-Md7d4lQxHsAvYcXz1HI5f2cY/edit?usp=sharing
User Manual	

AMOS Project 7 - Planning Documents

Bill of Materials

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

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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)	