Project Name	...
Production system (if any)	...
Test system (if any)	github actions
GitHub repository	https://github.com/amosproj/amos-ss2021-project2-context-map
GitHub kanban board (project)	https://github.com/amosproj/amos-ss2021-project2-context-map/projects/1
Team T-shirt (white)	https://www.shirtinator.de/loadBasket/UEuo0qppj8j
Team T-shirt (black)	(all white)
Additional materials	...
Team Meeting Converence Room	https://teams.microsoft.com/l/meetup-join/19%3a3b8f52884ffc4100a4eb47e51093e5a7%40thread.tacv2/1618404049950?context=%7b%2

Last Name	First Name	GitHub User Name	Email Address	Kenntnisse
Wehr	Thomas	derwehr	thomas.wehr@fau.de	JavaScript, RDF, SPARQL, Turtle
Shmelev	Igor	IgorShmelev	igor.shmelev@fau.de	JavaScript, Razor (C#/HTML), C#
Trütschel	Cato	CatoLeanTruetschel	cato.lean.truetschel@fau.de	Typescript (Javascript) frontend, HTML, CSS, SPA (Blazor), C#, SW architecture
Zuber	Yannick	zuberman35	yannick.zuber@gmail.com	Project Management, basics in C & Python
Jablonski	Johannes	joluj	johannes.lukas.jablonski@gmail.com	Typescript (Angular), RxJS, HTML, (S)CSS, SW Architektur
Kopyto	Tobias	PianoRollRepresentation	kopytotobias@gmail.com	etwas Typescript, Java, C#, C++, Python
van de Logt	Jule	julevdl	jule.vandelogt@gmail.com	Project Management, SCRUM, Grundkenntnisse C & Python

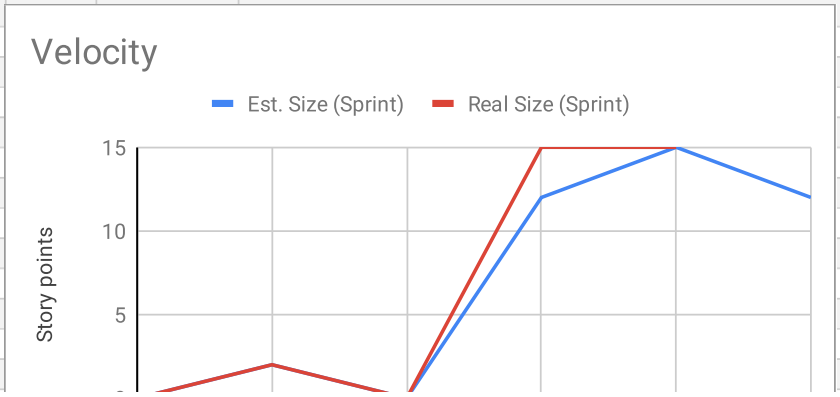
Goals	Work in a smooth and constructive environment as a team.
	Achieving our project goals within the set time frame.
Meeting norms	Unless it's an emergency, we will let the team know at least the night before, if we cannot participate in a scheduled team meeting.
	Everyone participates and initially talks about their painpoints and mindset for the past week.
Working norms	We agree on a common style guide for code, which everyone has to follow including clear comments. We switch key rolls throughout the project, so everyone gets the chance to participate in different areas.
	We review code together with another team mate (4 - eyes principle). Both developers and product owners will agree on a testing method and apply it for every feature.
Coordination norms	We focus on key problems to not waste meeting time, further discussions will be conducted in a smaller scale.
	For every feature we will assign two team members as responsibles.
Communication norms	We communicate problems and issues immediately and openly within the team. We ask for help whenever needed. We won't judge team members when they ask for help. We check our communication channel (Teams) at least once every 24 hours on weekdays.
	We try to communicate criticism in a positve way. If we notice possible mistakes in someone's work, we openly communicate it in a friendly and polite way.
Consideration norms	We make decisions based on everyone's best interest (democratic votes).
	We do not judge anyone for having different opinions, but discuss it openly and in a friendly manner.
Cont. improvement norms	We automatically review and test our work on a regular basis according to the agreed manner.
	We track everyone's well-being by regularly checking the happiness index and asking team mates for feedback.
Rewards	We will give out a round of virtual applause for every released feature.
	We will have virtual coffee rounds to chat in a more informal way and celebrate our team work throughout the week.
Sanctions	Whoever joins a meeting late more than 3 times is obliged to sponsor the next virtual coffee meeting.
	If we notice any violations of this team contract, we will point it out to our fellow team mates.
Miriam, Tobias, Johannes, Cato, Igor, Thomas, Jule, Yannick	

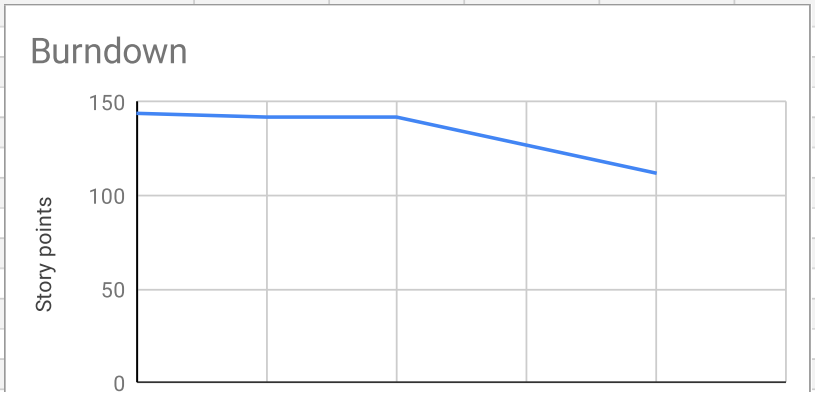
#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Scrum Master	Release Manager
1	2021-04-14		Yes	Jule	Everyone else	N/A	N/A
2	2021-04-21		Yes	Yannick	Everyone else	~~Jule~~	~~Johannes~~
3	2021-04-28		Yes	Jule	Everyone else	~~Jule~~	~~Tobias~~
4	2021-05-05			Yannick	Everyone else	~~Tobias~~	~~Cato~~
5	2021-05-12		Yes	Jule	Everyone else	~~Igor~~	~~Cato~~
6	2021-05-19			Yannick	Everyone else	Jule	Johannes
7	2021-05-26	Mid-term due	Yes		Everyone else	Cato	Igor
8	2021-06-02			Jule	Everyone else	Yannick	Tobias
9	2021-06-09			Yannick	Everyone else	Jule	Cato
10	2021-06-16		Yes	Jule	Everyone else	Yannick	Thomas
11	2021-06-23			Yannick	Everyone else	Thomas	Igor
12	2021-06-30			Jule	Everyone else	Cato	Thomas
13	2021-07-07		Yes	Yannick	Everyone else	Johannes	Tobias
14	2021-07-14	Demo day!					
15	2021-07-21	Retrospective					

Product Vision	Project Mission
The contexmap for corporate data KMAP is the best solution, helping companies worldwide to automatically turn company data into valuable insights. By leveraging modular visualizations, we empower the corporate customers throughout the enterprise to find answers to business related questions without deeper coding knowledge. A responsive step-by-step exploration facilitates quick access to the insights needed. KMAP furthers the communication and transparency across companies and along the value-chain.	The mission of this project is to create an MVP for KMAP. Core functionality will be integrating graph data bases, visualizing the graph data in a modular dashboard, and exploring the data with a no-code query builder.

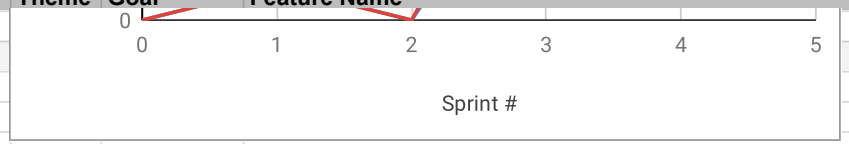
Term	Definition
Nodes	Nodes are the visualization of entities in the graph
Edges	Edges are the visualization of relations in the graph
Query-Archetype	
Entities	Entry of the Database. Represents something real (e.g. 1.: Node with id 1234 with property name "Peter" is an Entity. 2.: Edge from Node "Peter" to Node "Paul" is an Entity)
Entity-Type	Either NodeType or EdgeType. Is only the abstract thing. Comparable to a class. Classes relates to objects like entity-types to entities.
Class / Klasse	Abstract "blueprint" for object. Contains information about properties and methods of objects of that class, but no values to that properties.
Objects / Instance / Instanzen	Real world representation of something. Example: Class Person says that Persons have an property "name". Then the Person with the name "Peter" is an instance/object of that class.

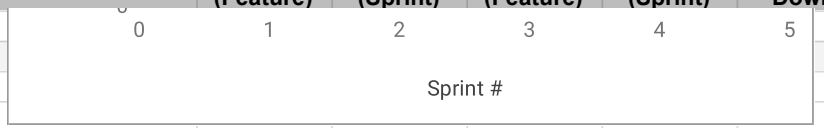
#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
0		Initial Burndown			0		0	144
1	**Basic set-up**				2		2	142
		A first set up of the web page (Hello World)						
				2		2		
2	**Research**				0		0	142
		Create a common understanding of project						
3	**Database**				12		15	127
		Decide on which data base to use						
				3		5		
				3		3		
				3		3		
			#11 - Information Visualization	3		3		
4	**Basic Page Set-up**				15		15	112
		First set-up of webpage including navigation menu						
			#46 - Page Set up	5		5		
			#45 - Dashboard	2		2		
			#28 - Display Context Graph	8		8		
5	**Filteroptions/Querybuilder**				12			
		Query Data without writing code						
			#86 - Visualization of Errors	2				
			#47 - Filteroptions	5				
			#30 - Searchfunction with Autocomplete	5				





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





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

Sprint	Status	Source	Impediment	Resolution
1	Created	Team	Problem and tasks are still unstructured, real overview over to-do's is currently missing; Team members feel overwhelmed	
2	Resolved	Jule, Yannick	fiiting the expectations of our industry-partners	work-shop for developing new ideas which are shown to our industry partners
2	Unsolvable	Yannick	Miriam gone	-
2	Resolved	Thomas	No real understanding how the endresult needs to look like	clarify with our industry partners, will probably get better in the development process
4	Resolved	Igor, Tobias	industry-partners do not want a graph visualization -> how do we design our frontend then?	with the new priorisation on the no-code-query builder and the overall workflow the visualisation could be solved easier
4	In-work	Igor, Tobias, Johannes, Cato	Relatively imprecise idea and requirements ("product as generic as possible but specialized") of the customer complicates the step-by-step development of the product. Basic idea (query builder based on archetypes) already there, but still vague. The customer gives us only vague information and wants to see what we can do with it - planning is difficult.	At this point helps the active contact with the customer, which currently happens weekly already. Our POs take good care that the customer's requirements remain realistic and are understandable for us. With the first correct implementation that we can show, a better assessment of the customer's request can be made.
4	Resolved	Jule, Yannick	Feeling that the project has deviated from the actual idea of visualization and thus no longer follows the actual "innovation", reduces project motivation.	After the customer meeting, it became relatively clear that the user experience was the main focus. In this topic, innovation can be achieved through intuitiveness and clarity of the query builder and the actual app.
5	In-work	Igor, Tobias, Cato	Two sides: Igor and Tobias feel like they didn't contribute enough to last week's sprint. On the other hand Cato had too much work.	Clear communication among developers when working on an issue as a group. Splitting issue into smaller pieces so everyone has clearly assigned responsibilities.
5	In-work	Johannes, Tobias	User Stories are too large due to backend implementation necessary at the beginning of the project.	Might resolve itself, after backend is now implemented. However, PO's consider this feedback in their future Backlog planning. Will check on upcoming issues for size. Maybe split existing issues into smaller parts.
5	In-work	Tobias	New strategy for Pull Requests - not everything last minute/ at once	Developers took this impediment to the developer's meeting.

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Documentation conform with tsdoc	80% Branch Coverage	No severe bugs (visible to user)
	Reviewed with 4 eyes principle	No severe bugs	Understandable documentation for developers
	Understandable documentation for developers	Understandable documentation for developers	Understandable documentation for user
			80% Branch Coverage

Type	Link / reference

\		Context	Name	Version	License	Comment
frontend	included in app	Creating the Web App's UI	React	17.0.2	MIT	https://www.npmjs.com/package/react
frontend	included in app	DOM specific methods for React	React-DOM	17.0.2	MIT	https://www.npmjs.com/package/react-dom
frontend	included in app	Scripts and configuration used by React	React-Scripts	4.0.3	MIT	https://www.npmjs.com/package/react-scripts
frontend	included in app	Dependency injection	inversify	5.1.1	MIT	https://www.npmjs.com/package/inversify/v/5.1.1
frontend	included in app	Dependency injection	reflect-metadata	0.1.13	Apache 2.0	Polyfill for javascript type metadata needed for DI; https://www.npmjs.com/package/reflect-metadata/v/0.1.13
frontend	included in app	measure and analyze performance	web-vitals	1.1.1	Apache 2.0	https://www.npmjs.com/package/web-vitals
frontend	included in app	Material UI React components	@material-ui/core	4.11.4	MIT	https://www.npmjs.com/package/@material-ui/core
frontend	included in app	Material UI icons	@material-ui/icons	4.11.2	MIT	https://www.npmjs.com/package/@material-ui/icons
frontend	build time only	Testing environment	cypress	5.4.0	MIT	https://www.npmjs.com/package/cypress
frontend	build time only	className utilities	clsx	1.1.1	MIT	https://www.npmjs.com/package/clsx
frontend	build time only	Style sheet preprocessing	sass	1.32.12	MIT	https://www.npmjs.com/package/sass/v/1.32.12
frontend	included in app	Multi-page routing	react-router-dom	5.2.0	MIT	https://www.npmjs.com/package/react-router-dom/v/5.2.0
frontend	build time only	Types for react-router-dom	@types/react-router-dom	5.1.7	MIT	https://www.npmjs.com/package/@types/react-router-dom/v/5.1.7
frontend	included in app	Detect container size changes to adapt graph size	@react-hook/resize-observer	1.2.0	MIT	https://www.npmjs.com/package/@react-hook/resize-observer/v/1.2.0
frontend	included in app	Async request of graph data	react-async	10.0.1	ISC	https://www.npmjs.com/package/react-async/v/10.0.1
frontend	included in app	Using vis-network with React	react-graph-vis	1.0.7	MIT	https://www.npmjs.com/package/react-graph-vis/v/1.0.7
frontend	included in app	Display graph networks (helper library)	vis-data	7.1.2	Apache 2.0 OR MIT	https://www.npmjs.com/package/vis-data/v/7.1.2
frontend	included in app	Display graph networks	vis-network	9.0.4	Apache 2.0 OR MIT	https://www.npmjs.com/package/vis-network/v/9.0.4
backend	included in app	Neo4j driver for JavaScript	neo4j-driver	4.2.3	Apache 2.0	https://www.npmjs.com/package/neo4j-driver
backend	included in app	Framework for server-side applications	nestjs	7.6.0	ISC	https://www.npmjs.com/package/nestjs
backend	included in app	Polyfill for Metadata Reflection API	reflect-metadata	0.1.13	Apache 2.0	https://www.npmjs.com/package/reflect-metadata
backend	?	Deep deletion module for node (like `rm -rf`)	rimraf	3.0.2	ISC	https://www.npmjs.com/package/rimraf
backend	included in app	Neo4j integration for Nest	nest-neo4j	4.2.3	ISC	https://www.npmjs.com/package/nest-neo4j
frontend, backend	build time only	Running node scripts (like pre-build) for different operating systems	run-script-os	1.1.6	MIT	https://www.npmjs.com/package/run-script-os/v/1.1.6
frontend, backend	build time only	Common code style rules	prettier	2.2.1	MIT	

Last Name	First Name	Value					
				5.00	OK		
Wehr	**Thomas**	5					
Shmelev	**Igor**	5					
Trütschel	**Cato**			0	No effort		
				1	Minimal effort		
Jablonski	**Johannes**	5		2	Small effort		
Kopyto	**Tobias**			3	Medium effort		
				5	Large effort		
				8	Very large effort		
				13	Too large effort		