

<b>Project Name</b>	...
<b>Production system (if any)</b>	<a href="http://5.183.20.2">http://5.183.20.2</a>
<b>Test system (if any)</b>	github actions
<b>GitHub repository</b>	<a href="https://github.com/amosproj/amos-ss2021-project2-context-map">https://github.com/amosproj/amos-ss2021-project2-context-map</a>
<b>GitHub kanban board (project)</b>	<a href="https://github.com/amosproj/amos-ss2021-project2-context-map/projects/1">https://github.com/amosproj/amos-ss2021-project2-context-map/projects/1</a>
<b>Team T-shirt (white)</b>	<a href="https://www.shirtinator.de/loadBasket/UEuo0qppj8j">https://www.shirtinator.de/loadBasket/UEuo0qppj8j</a>
<b>Team T-shirt (black)</b>	(all white)
<b>Additional materials</b>	...
<b>Team Meeting Convergence Room</b>	<a href="https://teams.microsoft.com/l/meetup-join/19%3a3b8f52884ffc4100a4eb47e51093e5a7%40thread.tacv2/1618404049950?context=%7b%22">https://teams.microsoft.com/l/meetup-join/19%3a3b8f52884ffc4100a4eb47e51093e5a7%40thread.tacv2/1618404049950?context=%7b%22</a>

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<b>Goals</b>	Work in a smooth and constructive environment as a team.
	Achieving our project goals within the set time frame.
<b>Meeting norms</b>	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.
<b>Working norms</b>	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).
<b>Coordination norms</b>	Both developers and product owners will agree on a testing method and apply it for every feature.
	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 responsables.
<b>Communication norms</b>	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 positive way.
<b>Consideration norms</b>	If we notice possible mistakes in someone's work, we openly communicate it in a friendly and polite way.
	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.
<b>Cont. improvement norms</b>	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.
<b>Rewards</b>	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.
<b>Sanctions</b>	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	Cato
8	2021-06-02			Jule	Everyone else	Yannick	Tobias
9	2021-06-09			Yannick	Everyone else	Johannes	Cato
10	2021-06-16		Yes	Jule	Everyone else	Yannick	Thomas
11	2021-06-23			Yannick	Everyone else	Thomas	Tobias
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
<p>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.</p>	<p>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.</p>

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#	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 - Hello World - Project		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						
		#6 - Decide on exemplary dataset		3		5		
		#5 Find and set-up an adequate dataset		3		3		
		#9 - Query - Archetypes		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		10	102
		Query Data without writing code						
		#86 - Visualization of Errors		2				
		#47 - Filteroptions		5		5		
		#30 - Searchfunction with Autocomplete		5		5		
6	Finish Sprint 5 + AddOns (Burn down of additional est. weight)				8			
		Clean up of Sprint 5 + some AddOns						
		#86 - Visualization of Errors		0		0		
		#47 - Filteroptions		3		13		
		#30 - Searchfunction with Autocomplete		3		8		
		#135 - Filtermenu: Separate Nodes / Relationships		1		1		
7	Cleanup & Rest of last sprint							
		Clean up Sprint overall						
		#134 - Sliderfunction for nodes & edges		1				
		#86 - Visualization of Errors		2				
		#199 - Cleanup & Refactoring						





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		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						
		#6 - Decide on exemplary dataset		3		5		
		#5 Find and set-up an adequate dataset		3		3		
		#9 - Query - Archetypes		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		10	102
		Query Data without writing code						
		#86 - Visualization of Errors		2		2		
		#47 - Filteroptions		5		5		
		#30 - Searchfunction with Autocomplete		5		5		
6	Finish Sprint 5 + AddOns (Burn down of additional est. weight)				8		19	83
		Clean up of Sprint 5 + some AddOns						
		#86 - Visualization of Errors		0		0		
		#47 - Filteroptions		3		8		
		#30 - Searchfunction with Autocomplete		3		8		
		#135 - Filtermenu: Separate Nodes / Relationships		1		1		
		#134 - Sliderfunction for nodes & edges		1		2		
7	Cleanup & Refactoring - Sprint				8		7	76
		Code Cleanup for Developers						
		#199 - Cleanup and Refactoring		5		5		
		#137 - Visualization: Hierarchical Layout		3		2		

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
8	Filtermenu							
			<b>Enhance Usability of Filtermenu</b>		13			
			#199 - Colors of visualization	5		5		
			#232 - Shortest Path Visualization	8				
9	Explorationlogic							
			<b>Implement the exploration logic</b>					
			#289 - Exploration Page	3				
			#290 - Visualization Preview for Exploration	2				
			#282 - Deployment on CPU's server	5				
10	Visualizationoptions							
			<b>Implement further visualization</b>					

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	fitting 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 prioritisation on the no-code-query builder and the overall workflow the visualisation could be solved easier
4	Resolved	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	Resolved	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	Resolved	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	Resolved	Tobias	New strategy for Pull Requests - not everything last minute/at once	Developers took this impediment to the developer's meeting.
6	Resolved	Johannes	Large delay in answers to questions to teammates on technical matters; Code changes of team-mates are not visible until shortly before sprint end (first change only on monday evening);	Commit code early to a dedicated branch and open a PR for it, such that early insight in the code and reviews are possible; Delays in communication may already have resolved themselves - otherwise our teams contract ensures that we answer at least once a day on workdays. Team members could inform others about their planning when they will be reachable up front.
6	Resolved	Tobias	User story story was not ready in time. How much effort (time/work) do we invest before preparing the feature for the release or giving up on it for the sprint, if it is not possible to finish the feature in time. Communication on this topic (to other devs and POs) unclear.	Set a time-budget up-front and do your best to fit the work in this budget. If the time is over, don't hassle to get it ready 'in-time'. Prioritization of sprint backlog items. Better estimation of sizes. Scale-down of project scope due to reduced number of team members. Inform the POs when it's foreseeable that a feature won't get ready.
7	Resolved	Cato	Messy code basis might lead to errors down the road	Refactoring sprint
7	Resolved	Cato, Johannes	Time consumption of project too high	Allocate time slots of availability (possibly include in team calendar to facilitate and focus reachability)

Sprint	Status	Source	Impediment	Resolution
7	Resolved	Jule, Yannick	Difficult to combine high customer expectations, vision and capacity of devs	Prioritize a MVP approach to solution dev rather than perfecting one item at a time.
8	Resolved	Jule, Yannick	Hard to create User Stories or features since the customer did not make concrete suggestions.	Ask customer directly what they like and dislike about each suggestion.
9	In-work	Cato	Refactoring ticket was closed, noticed later that minor additional effort turned into medium large effort. This resulted in working in Cato working on current sprint ticket by themselves	Close ticket when 100% sure that issue is resolved. Discuss with whole team to see what additional effort are required to better estimate additional size (necessary or over-engineering).

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\		Context	Name	Version	License	Comment
frontend	included in app	Creating the Web App's UI	React	17.0.2	MIT	<a href="https://www.npmjs.com/package/react">https://www.npmjs.com/package/react</a>
frontend	included in app	DOM specific methods for React	React-DOM	17.0.2	MIT	<a href="https://www.npmjs.com/package/react-dom">https://www.npmjs.com/package/react-dom</a>
frontend	included in app	Scripts and configuration used by React	React-Scripts	4.0.3	MIT	<a href="https://www.npmjs.com/package/react-scripts">https://www.npmjs.com/package/react-scripts</a>
frontend	included in app	Dependency injection	inversify	5.1.1	MIT	<a href="https://www.npmjs.com/package/inversify/v/5.1.1">https://www.npmjs.com/package/inversify/v/5.1.1</a>
frontend	included in app	Dependency injection	reflect-metadata	0.1.13	Apache 2.0	Polyfill for javascript type metadata needed for DI; <a href="https://www.npmjs.com/package/reflect-metadata/v/0.1.13">https://www.npmjs.com/package/reflect-metadata/v/0.1.13</a>
frontend	included in app	measure and analyze performance	web-vitals	1.1.1	Apache 2.0	<a href="https://www.npmjs.com/package/web-vitals">https://www.npmjs.com/package/web-vitals</a>
frontend	included in app	Material UI React components	@material-ui/core	4.11.4	MIT	<a href="https://www.npmjs.com/package/@material-ui/core">https://www.npmjs.com/package/@material-ui/core</a>
frontend	included in app	Material UI icons	@material-ui/icons	4.11.2	MIT	<a href="https://www.npmjs.com/package/@material-ui/icons">https://www.npmjs.com/package/@material-ui/icons</a>
frontend	build time only	Testing environment	cypress	5.4.0	MIT	<a href="https://www.npmjs.com/package/cypress">https://www.npmjs.com/package/cypress</a>
frontend	build time only	className utilities	clsx	1.1.1	MIT	<a href="https://www.npmjs.com/package/clsx">https://www.npmjs.com/package/clsx</a>
frontend	build time only	Style sheet preprocessing	sass	1.32.12	MIT	<a href="https://www.npmjs.com/package/sass/v/1.32.12">https://www.npmjs.com/package/sass/v/1.32.12</a>
frontend	included in app	Multi-page routing	react-router-dom	5.2.0	MIT	<a href="https://www.npmjs.com/package/react-router-dom/v/5.2.0">https://www.npmjs.com/package/react-router-dom/v/5.2.0</a>
frontend	build time only	Types for react-router-dom	@types/react-router-dom	5.1.7	MIT	<a href="https://www.npmjs.com/package/@types/react-router-dom/v/5.1.7">https://www.npmjs.com/package/@types/react-router-dom/v/5.1.7</a>
frontend	included in app	Detect container size changes to adapt graph size	@react-hook/resize-observer	1.2.0	MIT	<a href="https://www.npmjs.com/package/@react-hook/resize-observer/v/1.2.0">https://www.npmjs.com/package/@react-hook/resize-observer/v/1.2.0</a>
frontend	included in app	Async request of graph data	react-async	10.0.1	ISC	<a href="https://www.npmjs.com/package/react-async/v/10.0.1">https://www.npmjs.com/package/react-async/v/10.0.1</a>
frontend	included in app	Using vis-network with React	react-graph-vis	1.0.7	MIT	<a href="https://www.npmjs.com/package/react-graph-vis/v/1.0.7">https://www.npmjs.com/package/react-graph-vis/v/1.0.7</a>
frontend	included in app	Display graph networks (helper library)	vis-data	7.1.2	Apache 2.0 OR MIT	<a href="https://www.npmjs.com/package/vis-data/v/7.1.2">https://www.npmjs.com/package/vis-data/v/7.1.2</a>
frontend	included in app	Display graph networks	vis-network	9.0.4	Apache 2.0 OR MIT	<a href="https://www.npmjs.com/package/vis-network/v/9.0.4">https://www.npmjs.com/package/vis-network/v/9.0.4</a>
backend	included in app	Neo4j driver for JavaScript	neo4j-driver	4.2.3	Apache 2.0	<a href="https://www.npmjs.com/package/neo4j-driver">https://www.npmjs.com/package/neo4j-driver</a>
backend	included in app	Framework for server-side applications	nestjs	7.6.0	ISC	<a href="https://www.npmjs.com/package/nestjs">https://www.npmjs.com/package/nestjs</a>
backend	included in app	Polyfill for Metadata Reflection API	reflect-metadata	0.1.13	Apache 2.0	<a href="https://www.npmjs.com/package/reflect-metadata">https://www.npmjs.com/package/reflect-metadata</a>
backend	?	Deep deletion module for node (like `rm -rf`)	rimraf	3.0.2	ISC	<a href="https://www.npmjs.com/package/rimraf">https://www.npmjs.com/package/rimraf</a>
backend	included in app	Neo4j integration for Nest	nest-neo4j	4.2.3	ISC	<a href="https://www.npmjs.com/package/nest-neo4j">https://www.npmjs.com/package/nest-neo4j</a>
frontend, backend	build time only	Running node scripts (like pre-build) for different operating systems	run-script-os	1.1.6	MIT	<a href="https://www.npmjs.com/package/run-script-os/v/1.1.6">https://www.npmjs.com/package/run-script-os/v/1.1.6</a>
frontend, backend	build time only	Common code style rules	prettier	2.2.1	MIT	
				4.0.0-alpha.58		
frontend	included in app	Material UI lab	@material-ui/lab		MIT	<a href="https://www.npmjs.com/package/@material-ui/lab">https://www.npmjs.com/package/@material-ui/lab</a>

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