| Project Name | |
|---------------------------------|--|
| Production system (if any) | http://5.183.20.2 |
| 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 |
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| 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 |
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| 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. |
| | 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. |
| Communication norms | 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 | lgor | 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 | | | | | |
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| Product Vision | Project Mission |
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| 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. |
| Subsidiary Node | A node that is only part of a query result, as there are edges part of the query result that reference the node and without the node, the edge cannot be displayed. |
| Path | A path is an ordered set of nodes and edges that describe a way from a start node to an end node. A path may be closed (start-node = end node) or open. |
| Separated subgraphs | Two subgraphs are separated, if there are no connections (no edges) between any node from one subgraph to an node from the other. |
| Project Manager | A project manager is a professional in the field of project management. Project managers have the responsibility of the planning, procurement and execution of a project, in any undertaking that has a defined scope, defined start and a defined finish; regardless of industry. |
| Team assistant | A team assistant helps carry the workload by performing administrative duties to free the members of the office team for other duties. They step right in to help with current projects so that more experienced members can focus on ways to improve the project, troubleshoot problems or address client demands. |
| Business Manager | Business managers drive the work of others in order to operate efficiently and to make a profit. They should have working knowledge of the following areas, and may be a specialist in one or more: finance, marketing and public relations |
| General User | A term that includes every user of KMAP |
| IT Project Manager | An IT project manager is a professional charged with overseeing the process of planning, executing and delegating responsibilities around an organization's information technology (IT) pursuits and goals. |
| Data Scientist | Data scientists are analytical data experts who have the technical skills to solve complex problems – and the curiosity to explore what problems need to be solved. They're part mathematician, part computer scientist and part trend-spotter. |
| Quality Manager | A Quality Manager, or Quality Assurance Manager, is in charge of supervising the production process to make sure that all products meet consistent standards. Their duties include developing and implementing quality control tests, inspecting products at various stages and writing reports documenting production issues. |
| Business User | A user with no or few technical knowledge who's goal is to perceive rather process/business/organizational information from the software. |
| International User | Aggregate of users with different nationalities and thus language requirements |
| Engineer | A person trained in any branch of the profession of engineering. In the case of KMAP mostly car mechanics since this is the target group of CPU 24/7 |
| Product Manager | A person concerned with the planning, management and control of products and/or services during the product life cycle from market maturity to market exit. |
| First Time User | A user with no experience in using KMAP and sees the interface for the first time. This means ease of use and perceived usefulness must be given by KMAP. |
| Paying Customer | A person, company or organisation that enters into a transaction with a counterparty as a demand party |
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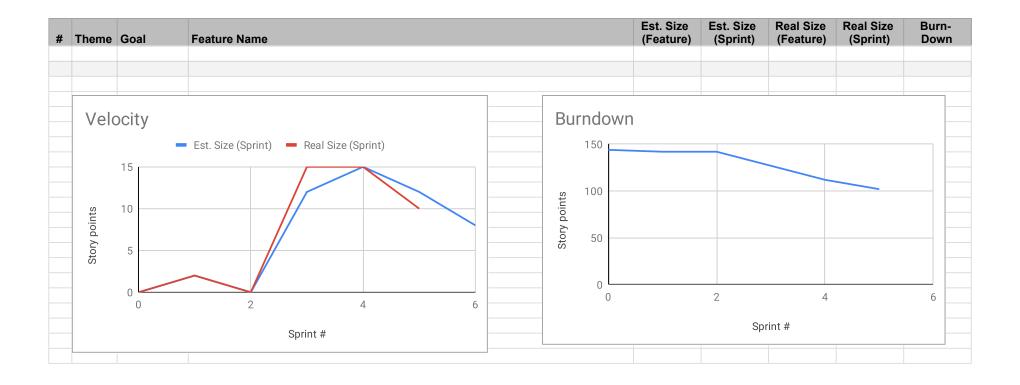
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn- Down |
|---|----------|-------------------|---|------------------------|-----------------------|------------------------|-----------------------|---------------|
| 0 | | Initial Bu | rndown | | 0 | | 0 | 144 |
| | | | | | | | | |
| 1 | Basic s | et-up | | | 2 | | 2 | 142 |
| | | A first se | t up of the web page (Hello World) | | | | | |
| | | | #2 - Hello World - Project | 2 | | 2 | | |
| | | | | | | | | |
| 2 | Resear | | | | 0 | | 0 | 142 |
| | | Create a | common understanding of project | | | | | |
| | | | | | | | | |
| 3 | Databa | se | | | 12 | | 15 | 127 |
| | | Decide o | n 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 F | Page Set-u | | | 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 | Filterop | otions/Que | | | 12 | | 10 | 102 |
| | | Query Da | ata 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 | | | |
| | | | 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 | Clean | n & Post | of last sprint | | | | | |
| - | Cleanu | | Sprint overall | | | | | |
| | | Ciean up | #134 - Sliderfunction for nodes & edges | 1 | | | | |
| | | | #86 - Visualization of Errors | 2 | | | | |
| | | | #199 - Cleanup & Refactoring | 2 | | | | |
| | | | #100 - Olcanup & Nelacioning | | | | | |



| Sprint | Status | Source | Impediment | Resolution |
|--------|------------|---------------------------------|---|---|
| | | | Problem and tasks are still unstructured, real overview over to-do's is currently missing; Team members feel | |
| 1 | Created | Team | overwhelmed | |
| | | | | work-shop for developing new ideas which are shown to |
| 2 | Resolved | Jule, Yannick | fiiting the expectations of our industry-partners | our industry partners |
| 2 | Unsolvable | Yannick | Miriam gone | - |
| | | | | clarify with our industry partners, will probably get better in |
| 2 | Resolved | Thomas | No real understanding how the endresult needs to look like | the development process |
| | | | industry-partners do not want a graph visualization -> how | with the new priorisation on the no-code-query builder and |
| 4 | Resolved | Igor, Tobias | do we design our frontend then? | 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 we reachable up front. |
| | 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 apporach to solution dev rather than perfectioning 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 | Resolved | Cato | | 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). |
| 10 | Resolved | Tobias, Cato | Misunderstandings over progress of others, and whether help is needed or not | Everyone try to offer help more actively when done with own tasks. |

| t Them | ne Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn- Down |
|---------|----------|---|------------------------|-----------------------|------------------------|-----------------------|---------------|
|) | Initia | l Burndown | , | 0 | | 0 | 144 |
| D! | | | | 0 | | 0 | 4.44 |
| Basic | c set-up | st act up of the web ways (Hello Mends) | | 2 | | 2 | 142 |
| | ATIR | st set up of the web page (Hello World) | 2 | | 2 | | |
| | | | 2 | | | | |
| Rese | earch | | | 0 | | 0 | 142 |
| | | te a common understanding of project | | | | | |
| | | g or project | | | | | |
| Datal | base | | | 12 | | 15 | 127 |
| | | de 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 | | |
| | | | | | | | |
| Basic | c Page S | 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 | | |
| · F:14 | 4: | (Our amphysial de m | | 12 | | 40 | 400 |
| Filter | | /Querybuilder | | 12 | | 10 | 102 |
| | Quei | ry Data without writing code #86 - Visualization of Errors | 2 | | 2 | | |
| | | #47 - Filteroptions | 5 | | 5 | | |
| | | #30 - Searchfunction with Autocomplete | 5 | | 5 | | |
| | | #30 - Searchanction with Autocomplete | 3 | | 5 | | |
| 6 Finis | h Sprint | 5 + AddOns (Burn down of additional est. weight) | | 8 | | 19 | 83 |
| | Clea | n 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 Clear | nun & R | efactoring - Sprint | | 8 | | 7 | 76 |
| , Oleai | | e Cleanup for Developers | | 0 | | , | 70 |
| | 5000 | #199 - Cleanup and Refactoring | 5 | | 5 | | |
| | | #137 - Visualization: Hierarchical Layout | 3 | | 2 | | |
| | | 77 Violanzation. Theraformal Edyout | 3 | | | | |

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn- Down |
|-----|----------|---------------------------------|--|------------------------|-----------------------|------------------------|-----------------------|---------------|
| 8 | Filterme | enu | | | | , | . , | |
| | | Enhance Usability of Filtermenu | | | 13 | | | |
| | | | #199 - Colors of visualization | 5 | | 5 | | |
| | | | #232 - Shortest Path Visualization | 8 | | 8 | | |
| 9 | Explora | ationlog | ic | | | | | |
| | | Implen | ment the exploration logic | | 10 | | 13 | |
| | | | #289 - Exploration Page | 3 | | 3 | | |
| | | | #290 - Visualization Preview for Exploration | 2 | | 2 | | |
| | | | #282 - Deployment on CPU's server | 5 | | 8 | | |
| 10 | UI - Cle | an up a | nd visualization | | | | | |
| | | Implen | nent further visualization | | | | | |
| | | | #234 - Searchfunction mapping | 5 | | | | |
| | | | #309 - Delete Subpage "Archetypes" | 0 | | 1 | | |
| Pla | nning | | Chord-Diagram | 8 | | 5 | | |
| 11 | Refacto | oring of | existing software + UX /UI | | | | | |
| | | Solve b | ougs and make interface more intuitive | | | | | |

| # | 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 |
| | did not break other code | Understandable documentation for developers | Understandable documentation for user |
| | Understandable documentation for developers | | 80% Branch Coverage |
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| Туре | Link / reference |
|---------------------------|--|
| Build/Deploy Documenation | https://github.com/amosproj/amos-ss2021-project2-context-map/wiki/Build-deploy-documentation |
| Technical Documentation | https://github.com/amosproj/amos-ss2021-project2-context-map/wiki/Technical-documentation |
| User Documentation | https://github.com/amosproj/amos-ss2021-project2-context-map/wiki/User-documentation |
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| ١ | | Context | Name | Version | License | Comment |
|----------------------|-----------------|---|-----------------------------|------------------|----------------------|--|
| frontend | included in app | Creating the Web App's UI | React | 17.0.2 | MIT | https://www.npmis.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.npmis.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/core |
| 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 |
| | | Detect container size changes to adapt graph | | | | |
| | | | @react-hook/resize-observer | | MIT | https://www.npmjs.com/package/@react-hook/resize-observer/v/1,2.0 |
| frontend | | Async request of graph data | react-async | | 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 |
| | | | vis-network | 9.0.4 | Apache 2.0 OR MIT | https://www.npmjs.com/package/vis-network/v/9.0.4 |
| frontend | included in app | Typewriter animation on home page | react-typed | 1.2.0 | MIT | https://www.npmjs.com/package/react-typed |
| frontend | included in app | Chord Diagram component | react-chord-diagram | 1.7.0 | MIT | https://www.npmjs.com/package/react-chord-diagram |
| haakand | included in one | Neo4j driver for JavaScript | neo4j-driver | 4.2.3 | Apache 2.0 | https://www.npmjs.com/package/neo4i-driver |
| | | Framework for server-side applications | | | ISC | https://www.npmjs.com/package/nestjs |
| | | | nestjs reflect-metadata | | Apache 2.0 | https://www.npmjs.com/package/reflect-metadata |
| backend | 2 | Deep deletion module for node (like `rm -rf`) | rimraf | | ISC | https://www.npmjs.com/package/rimraf |
| | | Neo4j integration for Nest | nest-neo4i | | ISC | https://www.npmis.com/package/nest-neo4i |
| Dackend | included in app | neo4j integration for Nest | nest-neo4j | 4.2.3 | 130 | nttps://www.npmjs.com/package/nes-neo-4j |
| frontend, | | Running node scripts (like pre-build) for | | | | |
| | build time only | 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 | | MIT | |
| | | | | 4.0.0- alpha. | | |
| frontend | included in app | Material UI lab | @material-ui/lab | 58 | MIT | https://www.npmjs.com/package/@material-ui/lab |
| | | | | | | |

| Last Name | First Name | Value | | | |
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| | | | | TUIVI | |
| | | | 2.00 | 0! | |
| Wehr | Thomas | | 2.00 | U: | |
| | | | | | |
| Trütschel | Cato | | 0 | No effort | |
| | | | 1 | Minimal effort | |
| Jablonski | Johannes | 2 | 2 | Small effort | |
| Kopyto | Tobias | | 3 | Medium effort | |
| | | | 5 | Large effort | |
| | | | 8 | Very large effort | |
| | | | 13 | Too large effort | |
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