**Artefact 03 Commitment Document Sprint 2**

**Section 1 Sprint Goal (For Sprint 2):**

* Project Name: Graph Editor
* Customer's Name: Lukas Thode
* Sprint Goal: The user will be able to styling a graph, filter, search, query

**Section 2 Commitment**

Sprint Start Date & Sprint End Date: 29th September & 10th Octorber

Sprint Demo Date & Time: 10th Octorber 08:00-10:00

**Sprint backlog**

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| **ID** | **User story/Backlog Items**  **(Template for writing user stories here: *As [a user persona], I want [to perform this action] so that [I can accomplish this goal]*** | **Estimated Effort (Story Points) Use XS, S, M, L, XL as sizing** | **Acceptance Criteria Use**template:  **Given that** [some context], **when** [some action is carried out], **then** [a set of observable outcomes should occur]. | **Any notes** |
| US6 | As a user, I want to have some tools such like rule-based styling by attributes, zoom, dark mode so that I can customize and navigate the graph efficiently. | S | Given that the user interacts with the graph, when they click “Zoom In” or “Zoom Out”, then the graph should scale accordingly. The user can change node colors and edge shapes. The user can toggle dark mode. |  |
| US7 | As a user, I want to filter nodes by type or status or something like that, so that I can focus only on relevant dependencies | M | Given that the graph is displayed, when the user applies a filter on node attributes (e.g., id, label, parent), then only nodes meeting the criteria and their connected edges should be visible. |  |
| US8 | As a user, I want to search for a node by name, so that I can quickly locate a specific entity in a large graph | M | Given that the graph is displayed, when the user types a node name in the search bar, then nodes matching the search term should be highlighted. |  |
| US9 | As a user, I want to extract a subgraph, so that I can analyze its local structure in detail | L | Given that a node is selected, when the user clicks the “Subgraph” button, then the graph should display the selected node and its immediate neighbors. |  |
| US10 | As a user, I want to compute the shortest path between two nodes, so that I can identify the minimal dependency chain | XL | Given that two nodes are selected, when the user requests the shortest path, then the graph should show minimal number of edges (maybe highlight the path connecting these nodes also) |  |
| US11 | As a user, I want to expand the neighbors of a node step by step, so that I can progressively explore the graph. | L | Given that a node is selected, when the user clicks the “Subgraph” button, then the graph shows its 1-hop neighbors. When the user clicks “Expand”, the graph expands to show the next hop. |  |