Demographic Questions:

Gender:

○ Male

○ Female

○ Identify as:

[Type here]

○ Prefer not to say

Age:

○ 18-25

○ 25-35

○ 35-45

○ 45-55

○ 55-65

○ 65+

○ Prefer not to say

Highest completed education:

○ Primary school

○ High school

○ Secondary vocational education ████████████

○ Applied university ████████████ / University bachelor

○ University master

○ Doctorate or equivalent

○ Other

○ Prefer not to say

Experience with process mining:

○ none

○ heard of it

○ somewhat

○ used it several times

○ used it many times

○ Prefer not to say

Experience with visualizations:

○ none

○ heard of it

○ somewhat

○ used it several times

○ used it many times

○ Prefer not to say

[Next]

Subjective Questions:

Readability

Q1: It is difficult to find the parts of the visualization needed to answer the questions.

Q2: The meaning of the nodes/rectangles and edges/arrows in the visualization are clear to me.

Q3: I can easily read the activity flow (how the activities transition/progress from start to end) in the visualization.

Q4: This visualization gives me a good overview of the activity flow (how the activities transition/progress from start to end).

Understandability

Q5: I understand how the activity data is visualized.

Q6: How the visualization displays the activity flow (how the activities transition/progress from start to end) is confusing.

Q7: I can easily comprehend how the visualization displays the activity flow (how the activities transition/progress from start to end).

Q8: The visualization helped to increase my understanding of the activity flow (how the activities transition/progress from start to end).

Informativeness

Q9: The visualization of the activity flow (how the activities transition/progress from start to end) is informative.

Q10: The visualization of the activity flow (how the activities transition/progress from start to end) is relevant for the questions I was given.

Q11: The information provided by the visualization of the activity flow (how the activities transition/progress from start to end) is sufficient for me to answer the questions.

Q12: The visualization of the activity flow (how the activities transition/progress from start to end) has insufficient detail to increase my knowledge about the activity flow.


Six subtasks:

Data set 1:

1. Which activity occurs the most?
2. Which two consecutive activities occur the most besides L followed by L?
3. Is parallelism (a set of activities at the same place in the trace can occur in any order) present?
4. Is there a loop of 3 consecutive activities, e.g. are three consecutive events repeated over time in one variant?
5. If E occurs does D always occur before another E occurs?
6. What is the most frequent occurrence of an activity not in the happy flow (desired/most frequent path) is A -B-C- E-D-I- A-D-K-G -(H,J)- I-M-C-H -K-B-O-N- K-L-E-L, where (H,J) can occur in any order?

Data set 2:

1. Which activity occurs the most?
2. Which two consecutive activities occur the most besides H-H?
3. Is parallelism (a set of activities at the same place in the trace can occur in any order) present?
4. Is there a loop of 3 consecutive activities, e.g. are three consecutive events repeated over time in one variant?
5. If F occurs does L always occur before another F occurs?
6. What is the most frequent occurrence of an activity not in the happy flow I-E- A-B-F- L-N-L- F-H-H- H-(J,B,I) -O-L-A -B-F-O- A-E-G, where (J,B,I) can occur in any order?

Data set 3:

1. Which activity occurs the most?
2. Which two consecutive activities occur the most besides M-M?
3. Is parallelism (a set of activities at the same place in the trace can occur in any order) present?
4. Is there a loop of 3 consecutive activities, e.g. are three consecutive events repeated over time in one variant?
5. If A occurs does R always occur before another A occurs?
6. What is the most frequent occurrence of an activity not in the happy flow M-M- M-(D,L,I) -B-A-N-L -O-G-D-A- F-I-H- A-E-F- G-A-B-A- E-A-B, where (D, L,I) can occur in any order?

Data set 4:

1. Which activity occurs the most?
2. Which two consecutive activities occur the most?
3. Is parallelism (a set of activities at the same place in the trace can occur in any order) present?
4. Is there a loop of 3 consecutive activities, e.g. are three consecutive events repeated over time in one variant?
5. If J occurs does R occur before another J occurs?
6. What is the most frequent occurrence of an activity not in the happy flow B-F-K -A-E-B-D- L-F-C-O- L-E-O-G- (M,J,I)-F- A-J-N-K- I, where (M,J,I) can occur in any order?