Interview Guide

Preamble

1. Choice of language: English only
2. Welcome the interviewee, do some smalltalk
3. Explain the interview context
    a. 📄 Research protocol: Qualitative Evaluation of Jayvee in AMSE SS23
    b. Goal: Understand how using a **DSL based on blocks and pipes** like Jayvee compares with a **GPL with libraries** like Python/Pandas regarding
        i. ease of use,
        ii. quality of the resulting pipeline and
        iii. challenges encountered.
    c. Grades: Explain clearly that the interview is voluntary, has no effect on grades and we are interested in their honest opinion and not hearing only positive things about Jayvee.
4. *For Interviewer context, the research questions of these interviews are supposed to answer:*
    a. *How does using a DSL to model a data pipeline with explicit pipes and filters influence the challenges faced during data engineering compared to using a GPL with libraries?*
    b. *What is the user's perception of ease of use and quality of results?*
5. Data handling
    a. Data will be pseudonymized, so there is no connection to you
6. Heads-up: Will start audio-recording now
7. **Start recording**
8. "I've started the audio recording, this interview is voluntary and has no effect on your grades. Can you please confirm that you understand and we are allowed to record this interview?"

Interview itself

I. Warm-up

1. Please very briefly let us know your background in data engineering / programming outside of AMSE/SAKI (if there is any).

II. Ease of use and quality

2. How easy was it to use Jayvee to create data pipelines? (*Potentially probe for ease of learning compared to Python)*
    a. In general
    b. Compared to Python/Pandas
3. How would you describe the quality of data pipelines created in Jayvee? (*Make sure the interviewee focuses on the quality of the data pipeline, not the resulting data)*
    a. In general
    b. Compared to Python/Pandas

III. Challenges

4. Which challenges did you encounter when creating data pipelines with Jayvee? *If the student has trouble describing multiple, ask "What was the biggest challenge?"*
    a. In general
    b. Compared to Python/Pandas
5. What worked well when creating data pipelines with Jayvee?
6. How did the blocks and pipes architecture of Jayvee change your approach compared to writing an imperative script in Python?

IV Open topic

7. Is there any other topic regarding Jayvee or the comparison of DSLs like Jayvee to GPLs like Python/Pandas you consider important?

Epilog

1. **End recording**
2. Thank the interviewee for their time and thoughts