

# Design of the Monitoring and Evaluation of Data Concerns

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The goal of this assignment is to determine important data concerns and design **components** for monitoring and evaluating these data concerns in your in your scenario/mini project and propose how to **utilize** these concerns. Given your results from the 1<sup>st</sup> and 2<sup>nd</sup> assignments, in this assignment, you must

- 1) Determine some important data *concerns* for your scenario and data/services (in the 1<sup>st</sup> and 2<sup>nd</sup> assignments), explain the reasons for these data concerns and give their definitions in the context of your scenario.
- 2) Design components for monitoring these concerns. You don't have to implement these components in this assignment but your design should cover
  - a. How many evaluation components would you design for these selected concerns?
  - b. Where are these components in your systems? Especially how to position them in the data pipelines
  - c. What are the features and interfaces of these components?
  - d. How do they obtain data and how do they return the evaluated data concerns?
- 3) Analyze the utilization of these concerns. For which use cases/situations would you use these concerns? How do such data concerns influence other services, e.g., your application-specific data analytics services?
- 4) Design at least one concrete function of data concerns for the end-user in your scenario. Examples are: if the user pays more, you will reduce the response time and increase the quality of the outputted results.

The report describing your work should be limited to 2 pages in IEEE computer society format template ([https://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](https://www.ieee.org/conferences_events/conferences/publishing/templates.html)). The PDF report must be submitted to TUWEL based on the deadline mentioned in TUWEL (9 May 2018).