

DISCRETE EVENT SIMULATION FOR METRICS CREATION

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Problem

- Privacy concerns
- Data within premises
- Costly to store large amounts of data.
- No data for R&D department.

Ideation

Needs

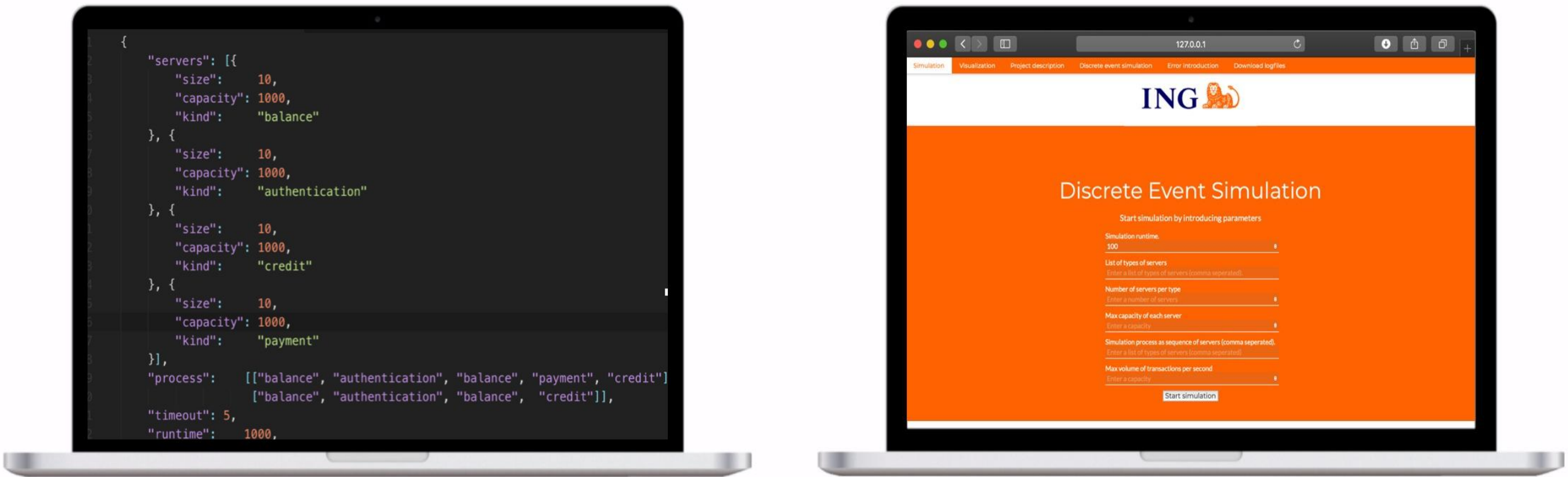
- Independent and cascading failures
- Real-life-like workload volumes.
- Annotated data in time series format.

Nice to have

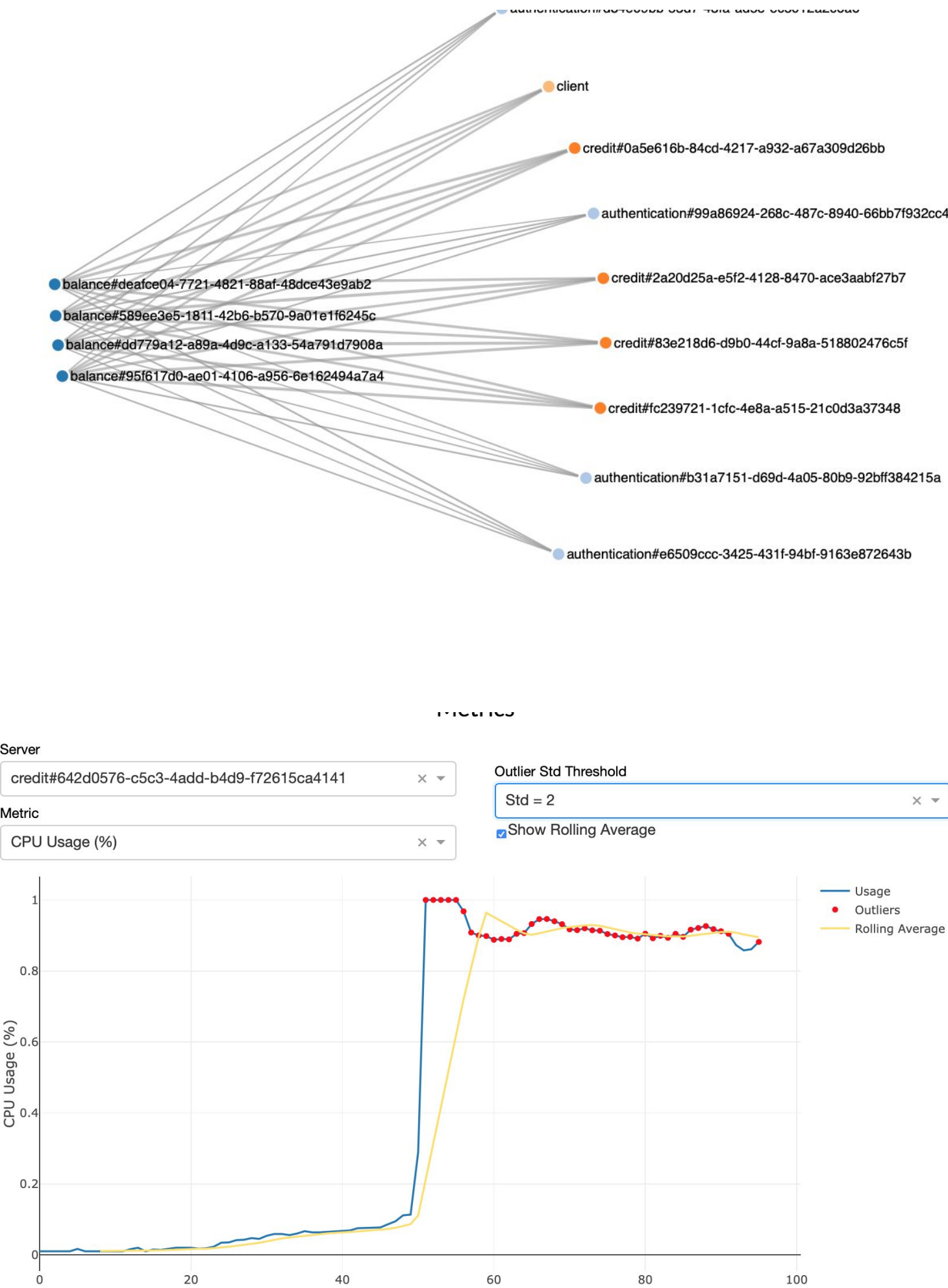
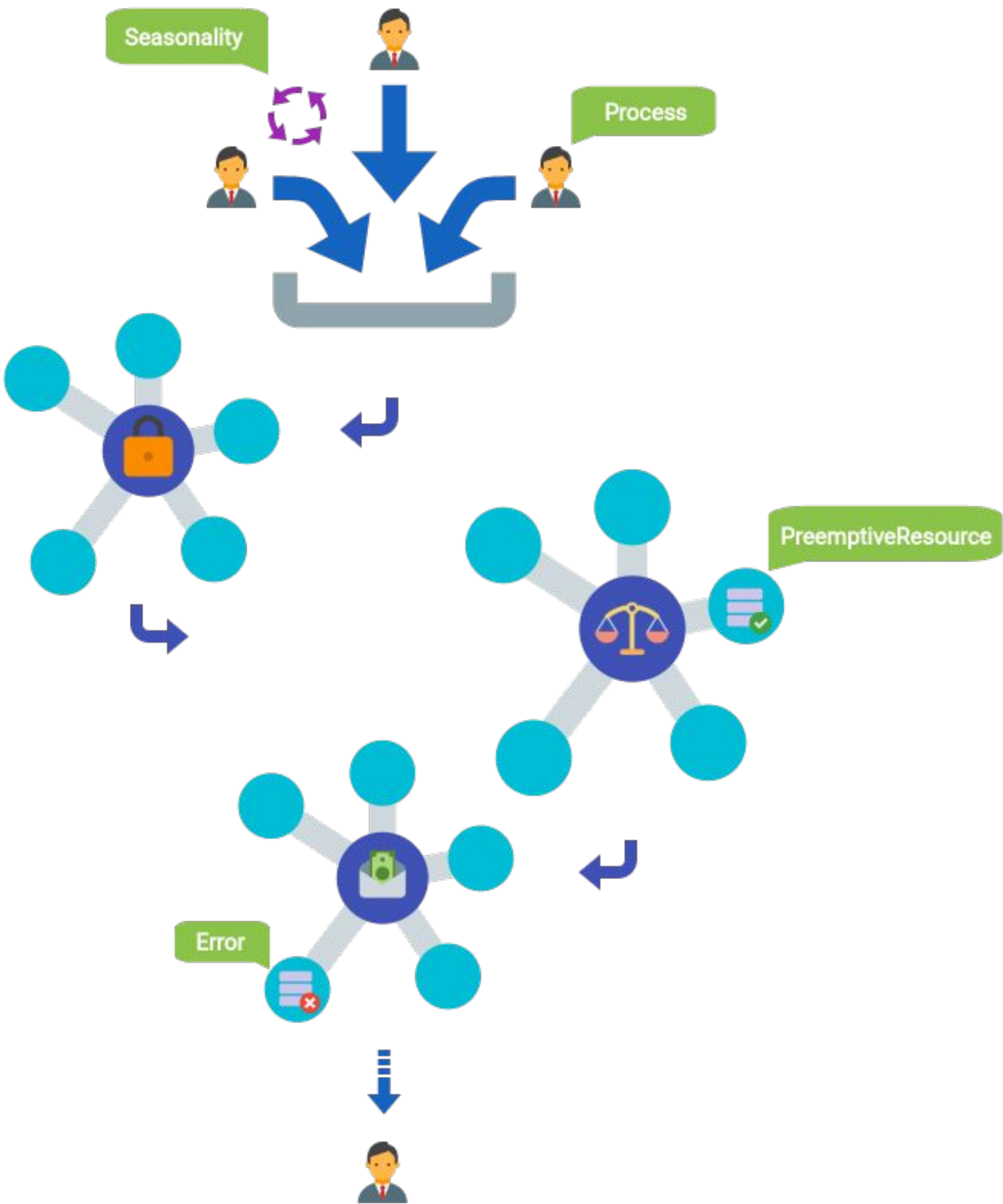
- Different user patterns
- Different errors
- Improved User Interface

Goal

Large scale database of annotated machine metrics as time series.



Model



Evaluation

Internal

- Test model using different scenarios.

External

- Heuristic Evaluation/expert testing^[1]

Conclusion

- Scalability
- Documentation
- Configurability
- Extensibility
- Limited metrics
- Text configuration

1. Sivaji A, Abdullah A, Downe A.G. Usability Testing Methodology: Effectiveness of Heuristic Evaluation in E-Government Website Development. In: 2011 Fifth Asia Modelling Symposium [Internet]. IEEE; 2011. p. 68–72. Available from: <http://ieeexplore.ieee.org/document/5961243/>