iPerform: Maintaining Data Privacy During Software Development

Figure 1 – Use case for our automated data anonymization recommender tool: How strongly will anonymizing database columns X and Y affect software testers in quality assurance?

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Budget for three years: $50k per year

Proposed deliverables:

- Data anonymization recommender tool for Java-based applications that use SQL
- Data anonymization recommender tool for “Big Data” applications (e.g., Hadoop)
- Evaluate impact of advanced data anonymization schemes
- Visualize tool recommendations
- Plug into tools that are popular with developers and analysts, such as IDEs
- Incorporate feedback from professional app developers, data analysts, business analysts

Award-winning paper: http://ranger.uta.edu/~csallner/papers/grechanik10is-abstract.html

This material is based upon work supported by the National Science Foundation under Grant No. 1017305 and 1117369. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.