

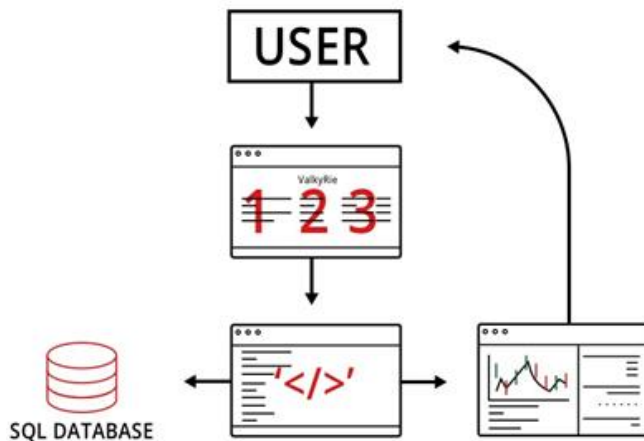
Building valkyRie

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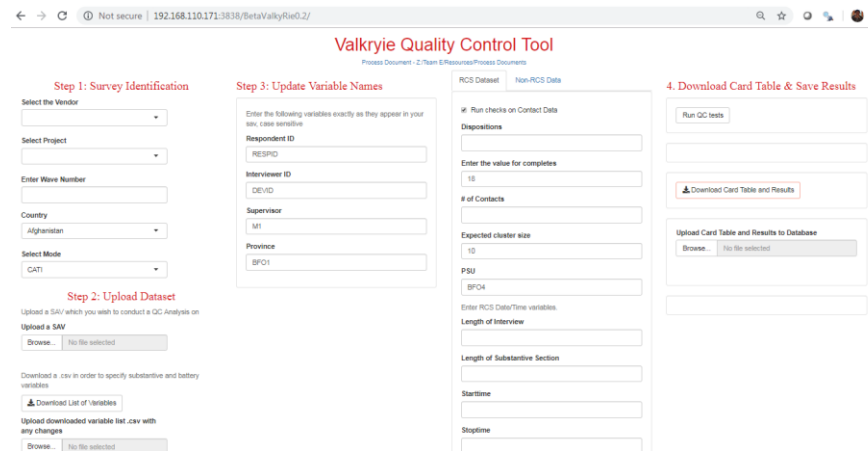


Ongoing or post-field quality control via statistical analysis using survey data, and paradata, is something that has long been conducted at D3 for individual survey projects. We present an update of the internal initiative that our team is undertaking to create an automated statistical analysis tool for our staff to run these tests more efficiently. In addition to streamlining the process, our goal was to create a tool that would allow us to keep a running database of the results. This data, in turn, can be used for comparing resulting quality-control test outcomes across countries, modes, and field partners over time. We present some of their experiences building and hosting the tool, as well as preliminary exploratory analysis of the growing database of international multi-country and multi-mode quality control results.

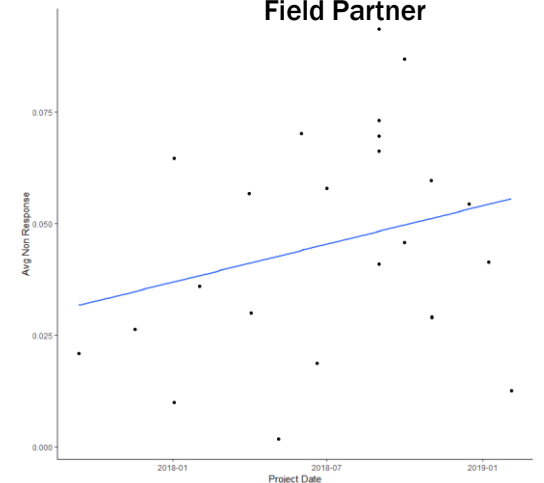
valkyRie Design



User Interface

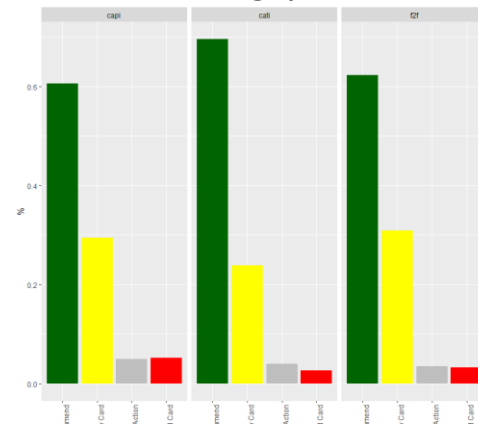


Non-response Across Project within Field Partner

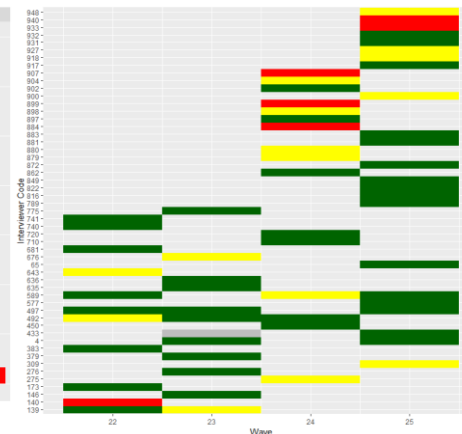


1. User written R functions to automate testing
 - Expansion of tests
2. User Interface
 - Shiny
3. Database
 - SQL vs. data.table (.Rdata)
4. Output
 - Rmarkdown (dynamic) vs. simple (static)
5. Hosting
 - Linux vs. Windows
6. Networking

QC Carding by Mode



QC Carding by Wave



Continued Research and Development:

1. UX/UI
2. Audio
 - Deep Learning application with tensorflow and keras

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