# Coleta

*Data collection system*

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## Requirements Document

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## Details

I need a system to log exploration and ore control data in the field. It has to be able to download selected data from a corporate central database, allow offline logging for inserting and updating the data, and allow uploading of this data after finishing the job.

The offline data have to persist during the offline operations, and have to be updated and appended.

No domain-related validation checks need to be done at this point. However, lookups and data ranges have to be downloaded and used.

Initially I have to connect to an acQuire database. First releases may obtain the data from the database, however the selected tables and fields may come from a selection file (.sel) OR an exported set of ASCII sheets. Ideally, in the future, it should read directly from the offline Data Entry package.

Working data have to persist during offline operations to avoid losing data on failure.

Authentication to the database may be Windows NT Authentication (Trusted Connection).

User should interact with a web-based application running on the browser.

## Main Flow

1. Start of main flow
2. User of acQuire 4x selects which form definitions to use.
3. User of acQuire 4x selects the filter condition to export only selected holes
4. User of acQuire 4x exports the data to be used for logging
5. Optionally (A) User of acQuire 4x exports the validation OR (B) User of Coleta imports validation from acQuire
6. User of Coleta system selects the exported files on step 4
7. Coleta system creates the SQLite database from scratch
8. Coleta system creates the set of HTML pages
9. Coleta system ready to go offline
10. User logs data
11. User comes back online
12. Coleta system inserts / updates data back to acQuire
13. Coleta system renames the SQLite database file as a datetime backup
14. End of main flow