GLIB - Google Library Inventory project

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Solution Overview
Self-service reporting on Google Library Inventory database (GLIB) for library staff. GLIB stores data from Google scanning projects that date from 2004 to present. GLIB tables contain:

- Item and bibliographic metadata for inventory of volumes sent to Google for scanning
- URNs that link to full text for scanned materials
- Transaction records that track items through the Google scanning workflow including when an item was scanned or not scanned
- Detailed information about the quality of the scan
- Information regarding physical condition of the item that affects the scan, including preventing scanning

The document purpose is to discover the Business Needs of the project including business objectives, current problems and situations to solve, assumptions and constrains. The document should provide a clear idea on the project scope, requirements and success criteria.

Solution Background
GLIB data was previously available in Cognos library reporting system which was retired in 2020. This project will restore reporting capability in HART.

Business Need
- Address underlying data integrity issues by populating Alma system generated identifiers in place of Aleph identifiers that are subject to change and deletion by staff.
- Investigate options for remediation that will restore item metadata for deleted and missing items.
- Evaluate database structure with the goal of reducing or eliminating capture of Alma metadata that is already available in other database tables.
- Establish new processes for maintaining the base. How often to refresh GRIN report table and conditions look-up, updating record identifiers for barcodes that no longer exist in Alma (destructive scanning workflow), updating record identifiers when items or a FIG holding is moved to a different bib.

Provide calculated fields to easily report on:

- Scanned (Y/N)
- Date of scan
- Date not scanned
- Active item (Y/N)
- Metadata available (Y/N)

What business problems should be addressed? What benefits should the project bring?

Solution Timelines

- Solution Design: Click or tap to enter a date.
- Development/Feature Freeze: Click or tap to enter a date.
- QA Testing: Click or tap to enter a date.
- Bug Fixes: Click or tap to enter a date.
- UAT Testing: Click or tap to enter a date.
- Go Live: Click or tap to enter a date.
- Other Dates: Specify other key project dates

Communication & Responsibilities

BI Engineering Team

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<tr>
<th>Team Member</th>
<th>Title</th>
<th>Role &amp; Responsibility</th>
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Project Stakeholder Team

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Solution Scope/Deliverables

- **Barcode Look-up Dashboard**
  - Current status of items sent for scanning. Input a list of up to 9,999 barcodes or use a csv file as input for larger sets. Return core metadata regarding the status of the item record, whether scanned, physical condition(s), availability of full text, URN. Include in results the barcodes that were not found in GLIB.
  - Identify materials sent to Google with a particular condition (Foldouts, Tight Gutter, Poor condition, Publication date, Overchop, Duplicate book) and whether scanned or not

- **Google scanning statistics Dashboard**
  - Items sent in the past month, year (calendar and fiscal), range of years or all years.
  - Percentage available in full text
  - Number of Opted out, claimed
  - Number with overall error percentage above a certain number

- **Change to viewability of item analysis**
  - Identify items where viewability has changed in quarter (or in whatever time period we decide to update GRIN report). Is this actionable in Alma by suppressing or un-suppressing FIG holdings?

- **Analysis of serial items scanned and not scanned**
  - For serial bits with a FIG holding, show volume/issue display with FIG data for items that have been sent to Google and which have and have not been scanned.

Provide any mock up or design screenshots

Target Audience

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<thead>
<tr>
<th>User Group</th>
<th>Business Need</th>
<th>Skill Set</th>
<th>User Story</th>
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Data Sources and Backend Architecture

<<Provide list of each data source to be used i.e. DB Name, Schema Name, Table Names>>

<<Provide any details on required ETL, dependencies, timeliness of the load job, frequency of execution, or high level relationship diagrams of data structures.>>

Background Documents

Find background doc on Harvard-Google workflows including initial data ingest, updates and ongoing process for new projects

Google Library Inventory dataBase specification (1/28/2008)

Cognos: FIG Barcode lookup report

Cognos SQL for FIG Barcode lookup report

Cognos: FIG Barcode lookup sample output

Cognos: GLIB data model

Alma to GLIB database field mappings

GLIB Data Source in HART - Analytics use cases