

Central Kenilworth Avenue Revitalization CDC

Final Presentation

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What is CKAR?

- CKAR is a Non-Profit organization focused on community development, building housing, community centers etc.
- Based in the greater riverdale area
- Some current programs are: food pantries, tenant rights, and conducting surveys



Our Project

- Our clients were Bronte, Imari, and Mrs. Parker
- Goal: to create a database to store all information from surveys
 - Organize data into tables (originally stored in sheets)
 - Make available to share to others

Which of these programs or resources would be helpful for you and your family?
(check all that apply)

- ☐ Housing Programs (help with rent/mortgage)
- ☐ Health Resources (medical care, mental health resources)
- ☐ COVID Safety (mask, hand sanitizer give-aways, COVID testing, job finding)
- ☐ Immigrant Assistance (legal help for immigrants, English classes)
- ☐ Recreational Programs
- ☐ Additional meal/Produce give-aways
- ☐ Resources for senior citizens
- ☐ Other: _____

What community challenges do you believe should be addressed?

- ☐ Inadequate public transportation
- ☐ Lack of after school options and help with online school



Problem

- CKAR CDC seeks to more actively engage the Latino community to advance health and wellness in Greater Riverdale



Requirements

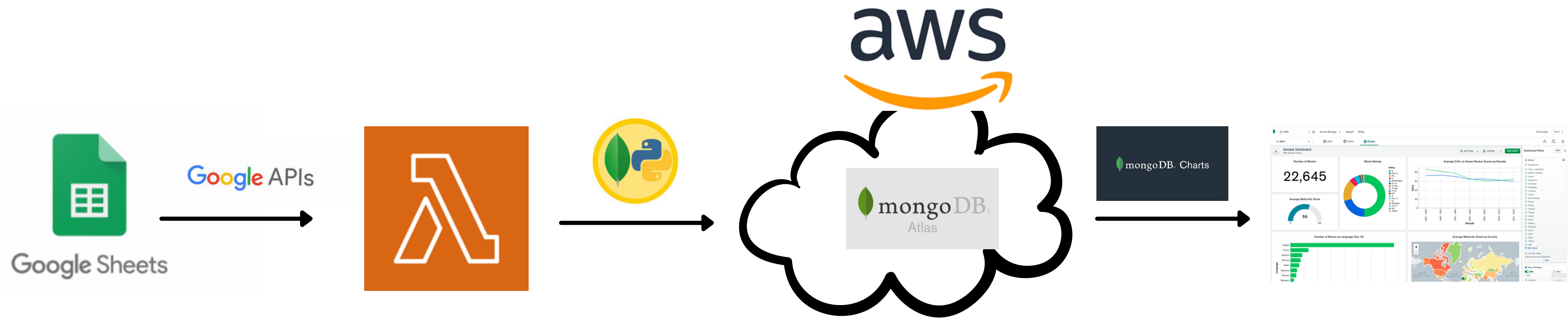
- A database that holds the survey data collected dynamically

Challenges & Opportunities

Opportunity: This database makes the data easier to access for other nonprofits

- Half of the data is in Spanish
- The team has not been exposed to a database tool in the past.
- Multiple Entries per question causing normalization problems

Deliverables



A Python script on AWS Lambda automatically fetches the survey responses from Google Sheets on a daily basis, with the help of Google Sheets API.

The same Python script then inserts the survey data into a MongoDB database hosted on AWS using PyMongo.

Using MongoDB charts, an inbuilt visualization tool on MongoDB Atlas, an interactive and live dashboard has been created to visualize the survey data.

Deliverables

ckar-surveys.survey_data Documents

ckar-surveys.survey_data DOCUMENTS 196 TOTAL SIZE 155.7KB

Documents Aggregations Schema Explain Plan Indexes

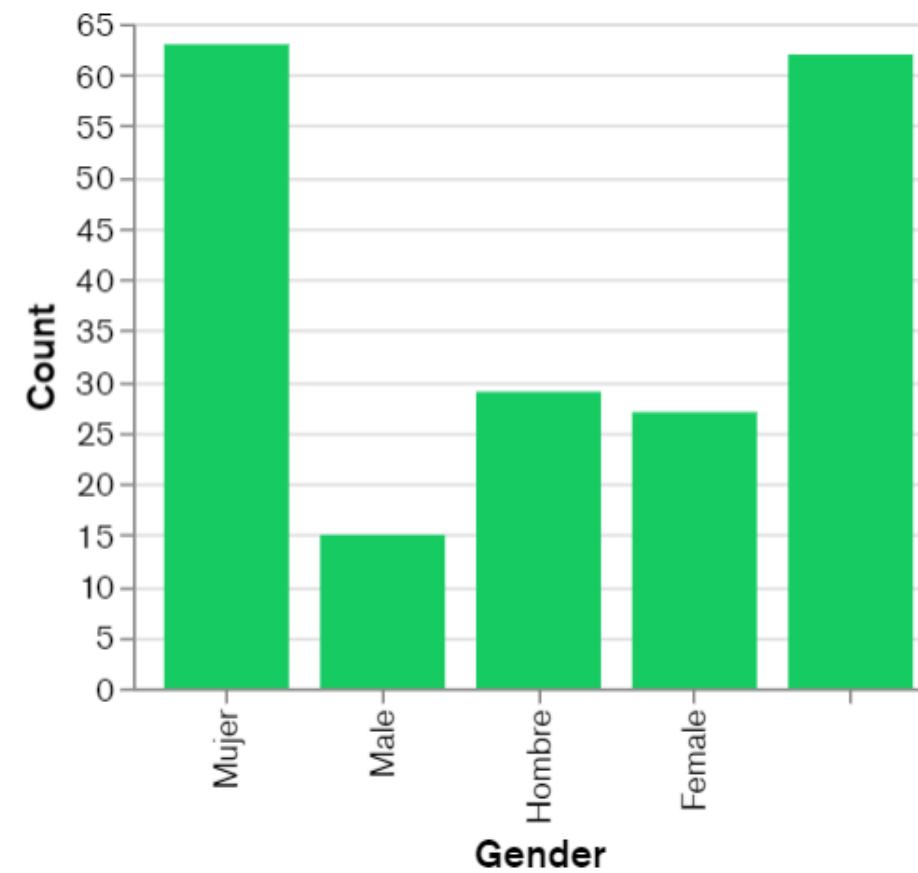
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ADD DATA

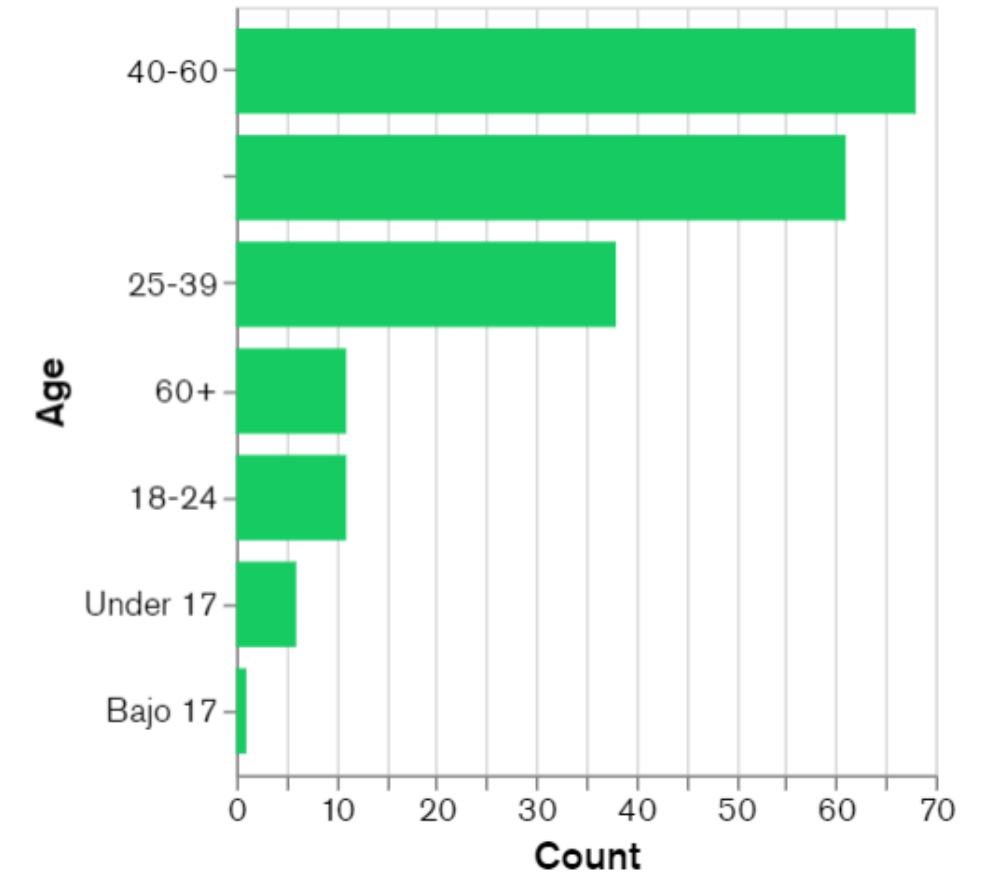
survey_data

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Respondent Gender Distribution



Respondent Age Distribution



Project Status

Completed Deliverables:

- Survey Database
- Python script to populate data
- Documentation
- Completed Dashboard

Future Plans

Questions?