Preparing to Securely Share and Integrate Government Service Data Between Tribal Departments

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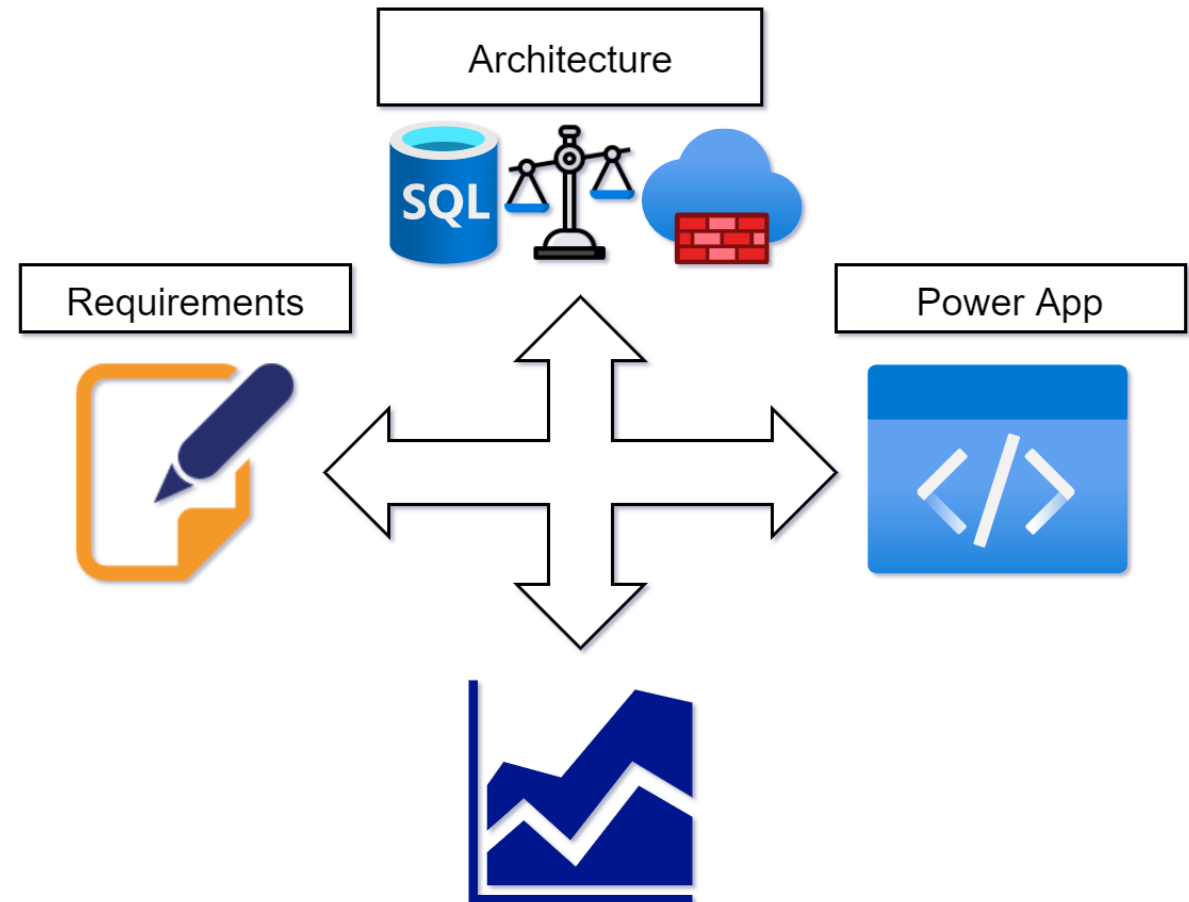Data Informatics Analyst – Government Services
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Microsoft's Power Platform

A key enabler to allow us to connect our programs to the network of data available across all departments

- Power Apps
- Power BI
- Power Automate (Flow)

Power Platform Drives Critical Areas at CNO

- Projects chosen based on the need to securely share data with many stakeholders

- Rapid response to pandemic
  - Food Security (CARES and ARPA funded strategic initiatives)
  - HR COVID Case Management & Reporting

- Strategic programs
  - Community Health Initiative
  - Cultural Center Visitor Log
  - Youth Advisory Board Program system of record

Food Security

$ Over **$56.6 Million** dollars in assistance since July 2020

More than **45K** members assisted

16 months of assistance provided to date – **38** months total scheduled

Testimonials

"PowerApps and Power BI Reports enabled the Choctaw Cultural Center to be open."

- ***Cheyhoma Dugger***
Director of Development & Membership,
Choctaw Cultural Center

"Your department did an excellent job of helping us to organize data early on in the pandemic so that we could better understand how the virus was moving within our employee population which enabled us to create action planning, policies, procedures, training, and communications that ultimately enabled us to limit to the degree possible Covid's impact on our associates as well as our business operations. "

- ***Gary Burrus***
Executive Officer,
Human Resources

Testimonials

"The Youth Advisory Board PowerApps and database has enabled our program to efficiently track our students' personal information and attendance for service hours, meetings, and trainings. …we are able to use our mobile devices to access student data and track attendance while we are working out in the field on projects and events with students

- *Greg Parnell*
Program Manager,
Youth Empowerment

"The data collection process and tracking with a standard Excel spreadsheet was massive! …After implementation, [the team] was instrumental in training all staff and is still currently readily available when an issue arises. We are extremely excited to start running our first reports"

- *Angela Dancer*
Senior Director,
Home Visitation Services

Cost Effective

- **Large project – HR COVID – Total = $57,350**
  - Platform Licenses
    - Power Apps = $6,000/yr(50 users * $10 * 12mos)
    - Power BI = $ 3,600/yr (30 users * $10 * 12mos)
    - Development / Engineering hrs = 477.5hrs @ $100/hr = $47,750
  - Timeline (Idea to Go live) - 8 wks, product sustainment 44 wks

- **Typical project – Food Security – Total = $16,160**
  - Licenses (5 Power Apps / 3 Power BI) = $960
  - Development / Engineering = 152hrs @ $100/hr = $15,200
  - Timeline – 4 wks

How We Use Power Platform

- Simple Internal Tools

- Prototype/ Bridge to Future Solution

- Primary Solution

Internal Tools

- Examples:
  - IT Costs Estimation
  - Presentation Questions
- The benefits of this approach are:
  - Best for simple problems where the scope is narrow, and much is known about the problem set.
  - We can get a product into production in a matter of days.
    (Once your infrastructure is in place)

Prototype or Bridge to Future Solution

- Examples:
  - Food Security
  - Cultural Center Visitor Log
- The benefits of this approach are:
  - Smooths digital transformation
  - Fast feedback cycle helps to refine true business requirements for further development
  - Reduces risk/ provides mitigation

Primary Solution

- Examples:

    - Human Resources COVID Case Management

    - Community Health Home Visitation Needs Assessment

- The benefits of this approach are:

    - Provide a solution for simple intake-based programs

    - Mobile use requirement

    - Offline data storage with later synchronization

Architecture Overview
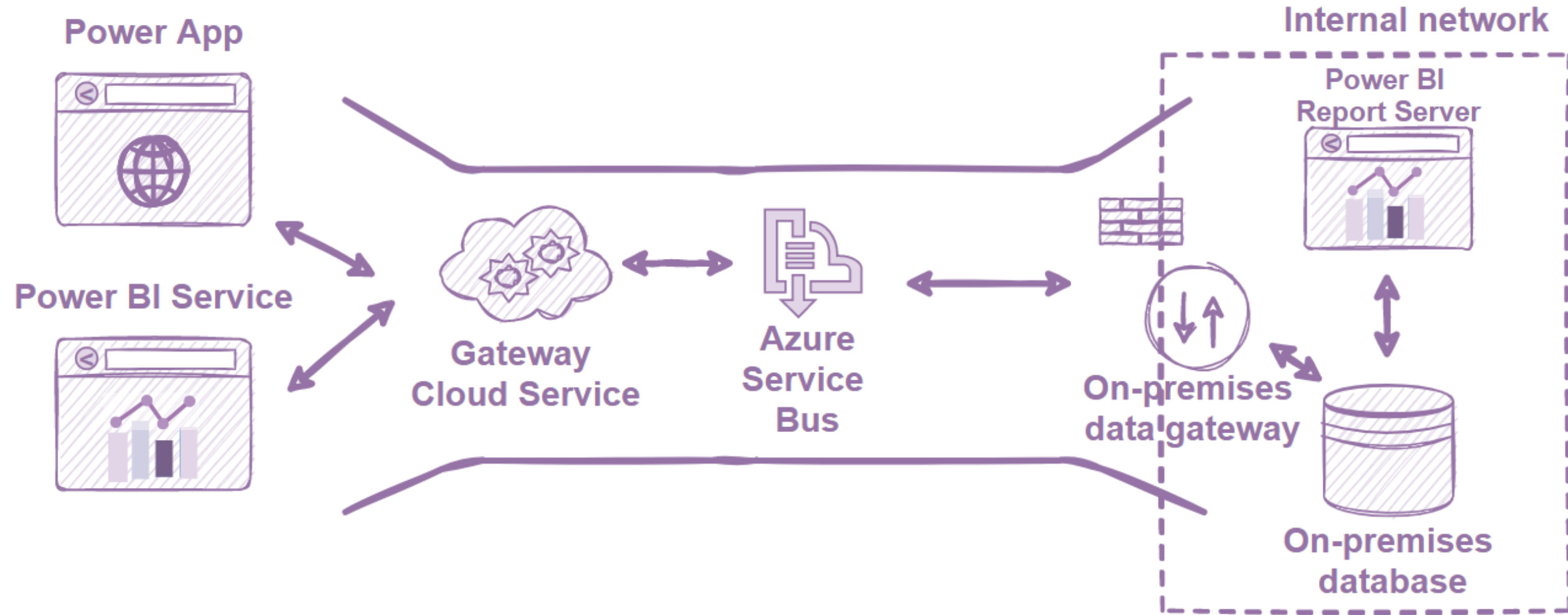
Sharing Data - Notifications & Alerts

Power App

Power Automate queries Db

On premises database

Power Automate generates & sends message

Users receive email
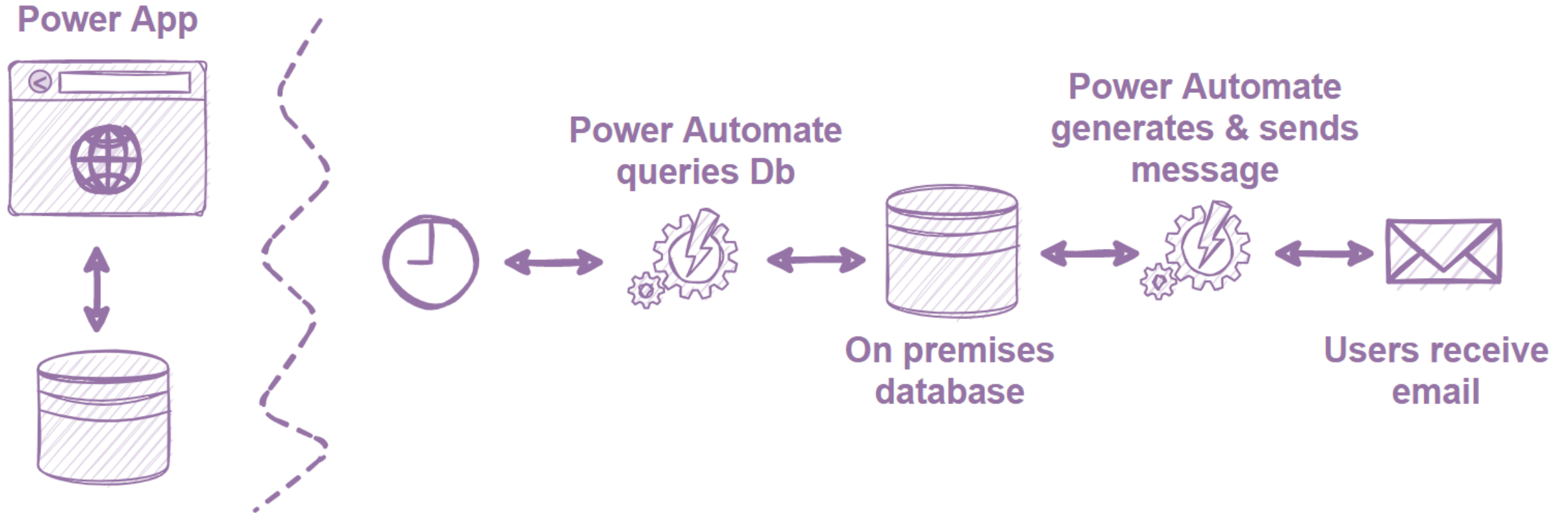
Sharing Data - Document Signatures

Power App

Pen Input Control

Joe Bagger

Power Automate saves picture

SharePoint Online Document Library

Power Automate saves data

SharePoint Online List

Sharing Data - Laserfiche Forms Input

Laserfiche Form

On premises database

Document Mgmt

L.F.

Power App

Gateway Cloud Service

Azure Service Bus

On-premises data gateway

P.A.

On premises database

Sharing Data - Laserfiche Forms Input

Living out the Chahta Spirit FAITH ● FAMILY ● CULTURE

Serving Forms with Custom Component

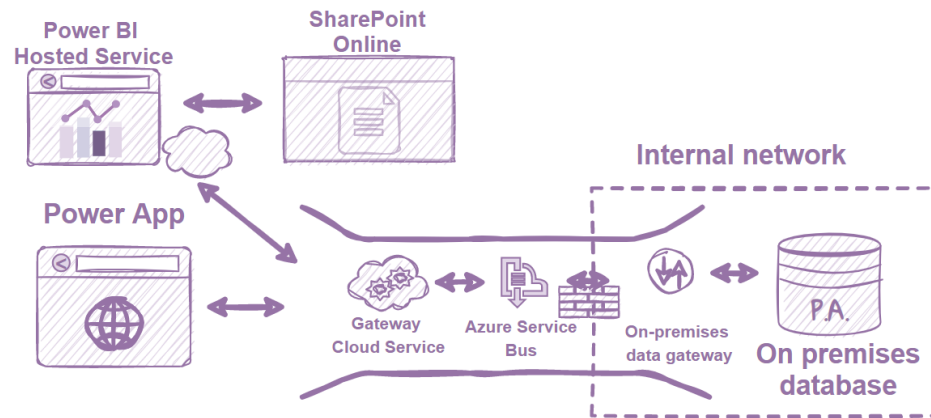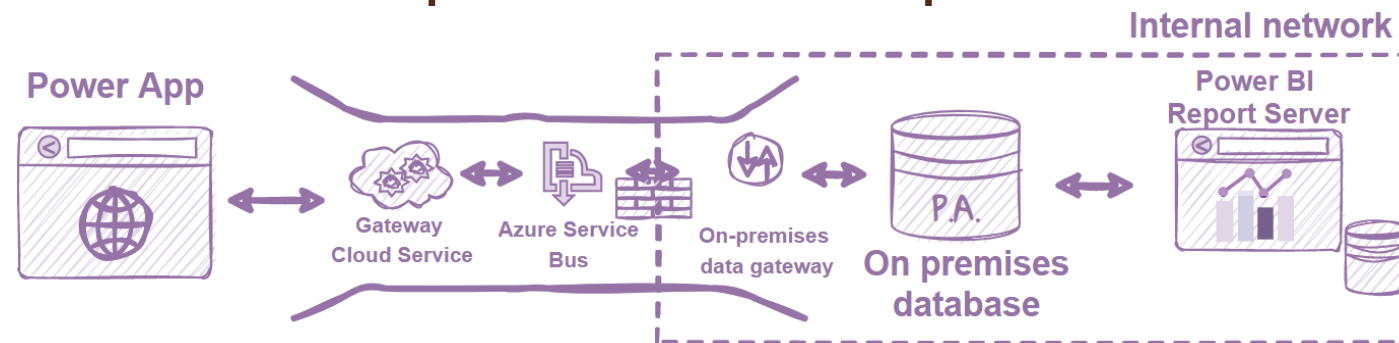Custom PowerApps Component
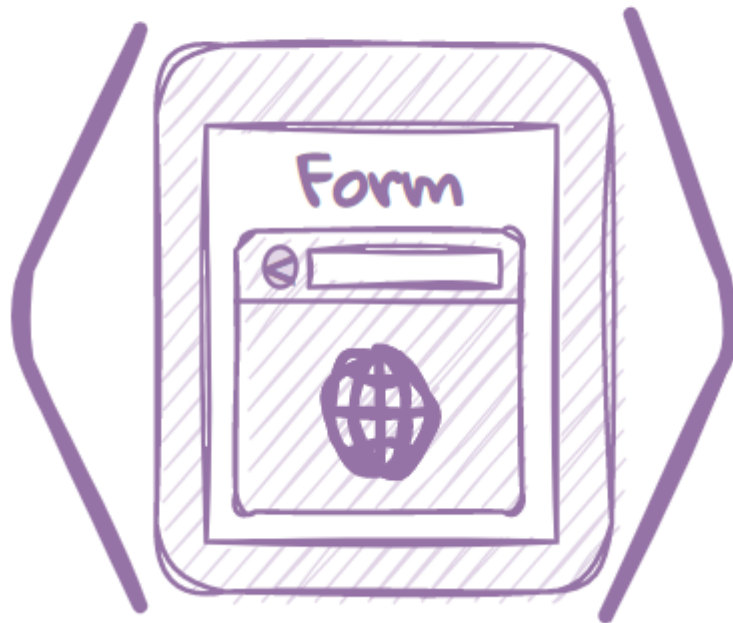
Form

Power App

Sharing Data - Reporting using PowerBI
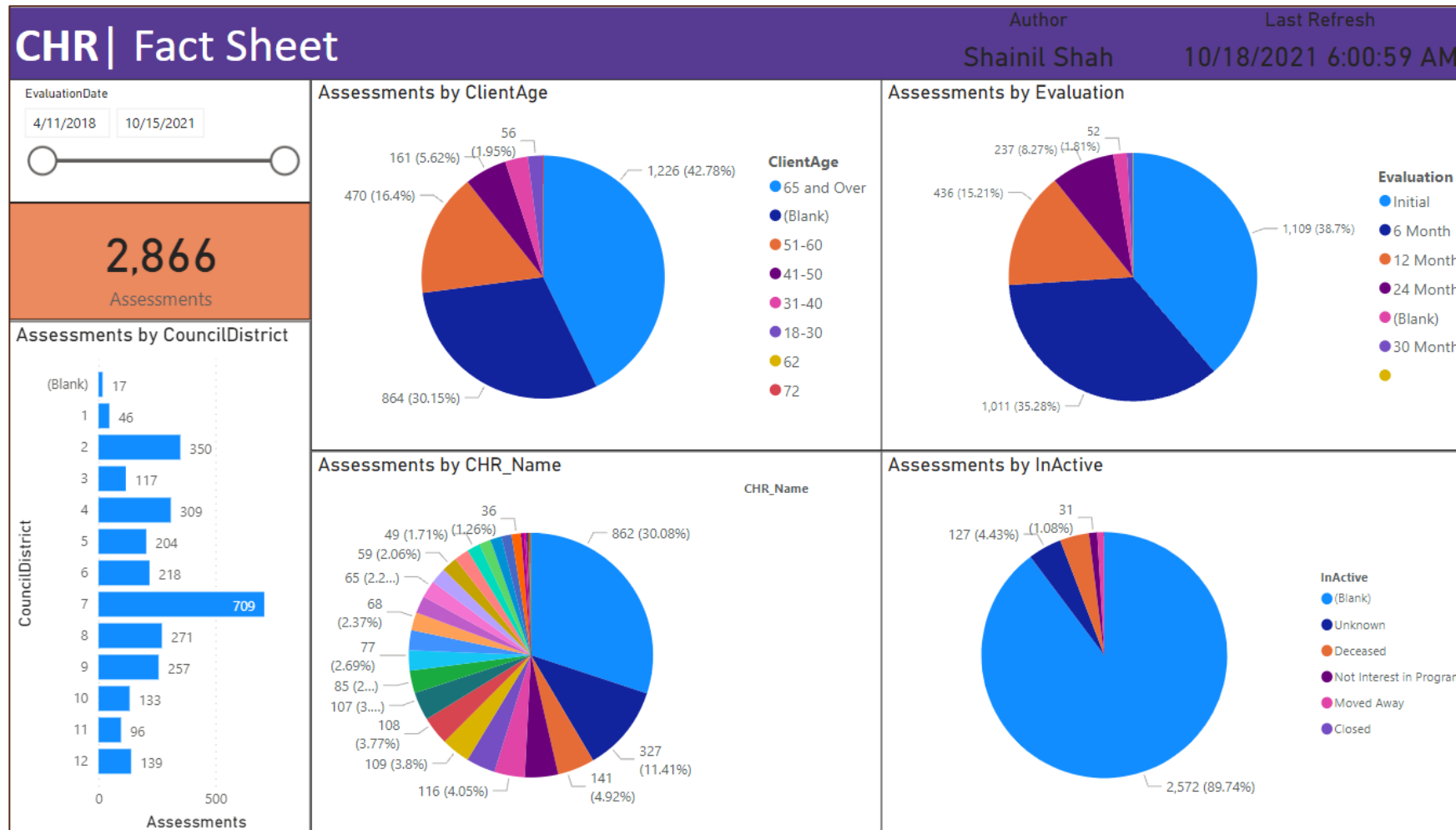
- Power BI Hosted Service
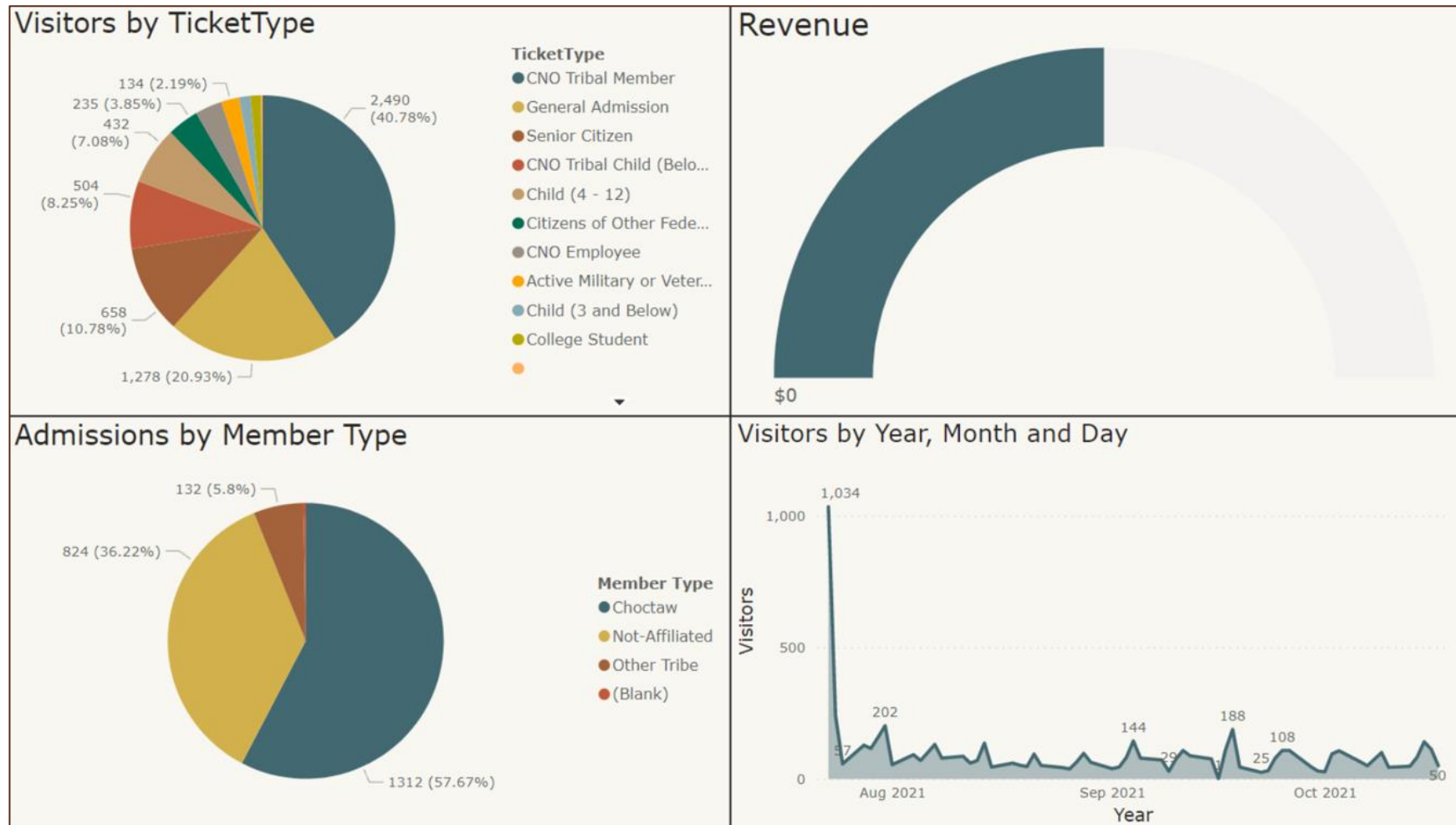

- Power BI Report Server on premises

Sharing Data - Reporting using PowerBI

Sharing Data - Reporting using PowerBI

Power Platform Governance

Considerations

- Licenses (Procurement & Asset Tracking)

- Connections

- Integrations

- Choosing the right administrators

- Environments

- "Center of Excellence" concept

Environments

- Research and Development

  - Default user environment

- "Production" Solutions

  - Request a dedicated environment for large scale apps

    - Request process should have a design review and data elements review

  - Email address per solution.

Getting Started

Sample Application Ideas (SPO based data storage)

- Small inventory applications

- Approval workflows

- Meeting notes

- Many provided templates

Conclusion

- Provide a solution for simple intake-based programs

- Mobile workflow

- Democratized Code Development

- Leverage Power Platform to empower a Data Driven Approach

Further Resources

We compiled a short list of resources

to help point you in the right direction.

Awesome Power Platform

A curated list of awesome Power Platform resources.

- Overview of PowerApps
- "Fusion Development" overview from Microsoft
- An Illustrated Guide to Fusion Development
- Governance
- Microsoft Power Platform Center of Excellence (CoE) Starter Kit

Power Apps

- You Tube Tutorials - Shane Young
- You Tube Tutorials - Reza Dorrani
- Microsoft Learn Tutorials
- PowerApps Pricing

Resources