EXTENDED PROVIDER DATA SERVICE

Cambria's development team reviewed the user story and the associated business objective of the application. The team also reviewed the dataset and the dataset definition provided as part of the RFP. Based on the core user story "As a caseworker or parent, I would like to search for child care providers in my vicinity so that I can choose the best provider for a child.", the development team performed a gap analysis to determine if all relevant information (data) was provided by Mississippi. The different data elements provided as part of the RFP are:

- ProviderName
- LicenseType
- ProviderType (integer between 2 and 8)
- ProviderTypeDescription
- QualityRating (integer between 0 and 5)
- QualityRatingDescription
- ProviderCapacity (integer between 1 and 700)
- PhysicalCity
- PhysicalZipCode
- CountyNumber (integer between 1 and 82)
- CountyName
- PhoneNumber

As part of the Human Centered Design and user interviews, Cambria team realized the need to add more user stories and therefore the need for more data elements even though the core user story would have been met with the dataset provided by Mississippi. Cambria team followed the intuitive approach of Agile process and Human Centered Designed to develop the prototype that led the need to add more data elements and relevant data. Based on the user research and additional user stories, Cambria saw the need for additional attributes:

- Street Address
- Availability
- Special Needs

The different user stories that led to addition of the new data elements are:

- **User Story# 1:** As a Caseworker or Parent, I would like to search for childcare providers in my vicinity so that I can choose the best provider for a child.
- **User Story# 4:** As a Parent, I want to know if a childcare service has availability for my child/children's age and needs so that I don't waste time exploring options that cannot take on any more children.

DATA GAPS

Upon finalizing the different data elements that are necessary to enable the user defined user stories, Cambria team engaged different methods to fill in the data.

Availability: The objective of adding this data field is for users to search for facilities that are available for new beneficiaries. The team randomly populated 'Yes' or 'No' across all the records in the dataset. If a user wants to prioritize their search by searching all facilities where the facility is accepting new children, the user can simply choose 'Yes' for 'Availability'.

Special Needs: The objective of adding this data field is for users to search for facilities where they accept children with special needs. The team randomly populated 'Yes' or 'No' across all the records in the dataset. If a user wants to prioritize their search by searching all facilities where the facility accepts children with special needs, the user can simply choose 'Yes' for 'Special Needs'.

Street Address: Cambria team randomly picked two zip codes - 38632 and 38652 and populated street addresses (please note these addresses are valid but not necessarily accurate) so the team could show the mapping of street addresses using Google Maps. The intent was to accurately reflect the team's ability in using REST API's and reuse much of Google's code that is publicly available for use.

Since the dataset only had few randomly populated addresses, the team conducted detailed research and found some publicly available information that contains a list of all child Care Centers participating in the Mississippi. The list was found on Mississippi website at www.mdhs.state.ms.us/media/259267/**Eccd-QRIS-list**-updated.pdf. Cambria team used this dataset for development of the prototype in addition to the dataset provided in the RFP, since the data was available on a publicly administered and managed website.

MERGED DATASET

Both the datasets were then merged to come up with an extended dataset. The dataset at this point in time had all the fields necessary to meet all the user stories gathered as part of the initial interviews.

Cambria team then uploaded the data to a free open data service, Google Fusion Tables (https://developers.google.com/fusiontables/) and used the API provided by Google to interact with the dataset. This was done to simulate real-time interaction with Google's data service. This data service is a reusable service that could be an open external data service providing access to an open/public data repository or an internal data service going against an internal data source.