

# Baby Feed

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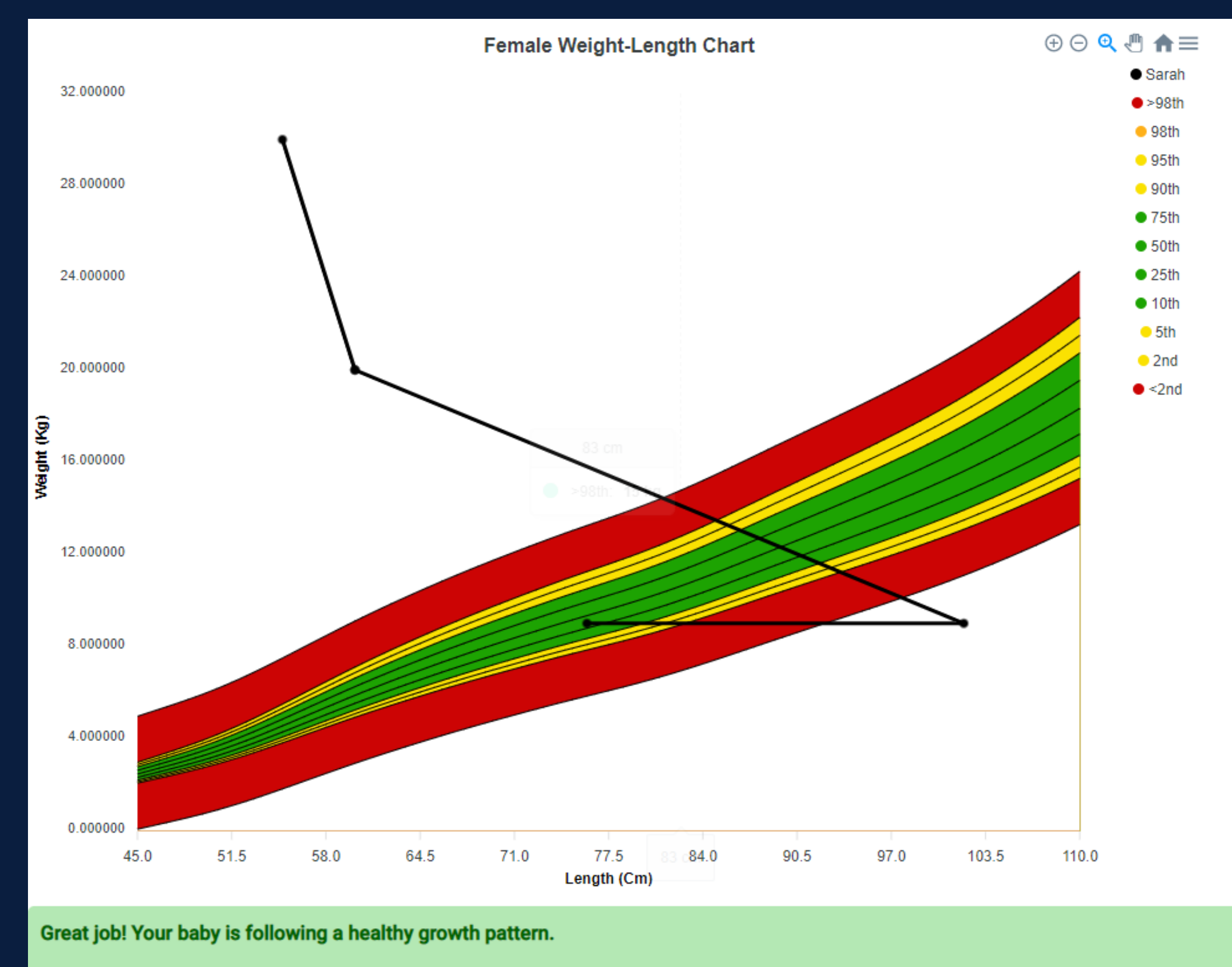
Instructor/Faculty: : *Dr. Masoud Sadjadi*, Florida International University



## PROBLEM

Baby Feed is an application used for research purposes with the intention of parents adding data for their baby's eating patterns and growth while also providing useful feedback and resources. This semester we addressed the baby growth chart because it lacked user-friendliness as well as useful visualizations and interpretation of the baby data. We also had to address the lack of resources for the parents.

## SCREENSHOTS



| Name  | Age | Height | Weight            |
|-------|-----|--------|-------------------|
| Sarah | 2   | 60     | 20                |
| Sarah | 3   | 55     | 30                |
| Sarah | 4   | 60     | 20                |
| Sarah | 5   | 101.6  | 9.071845843937941 |

## DEVELOPMENT TOOLS



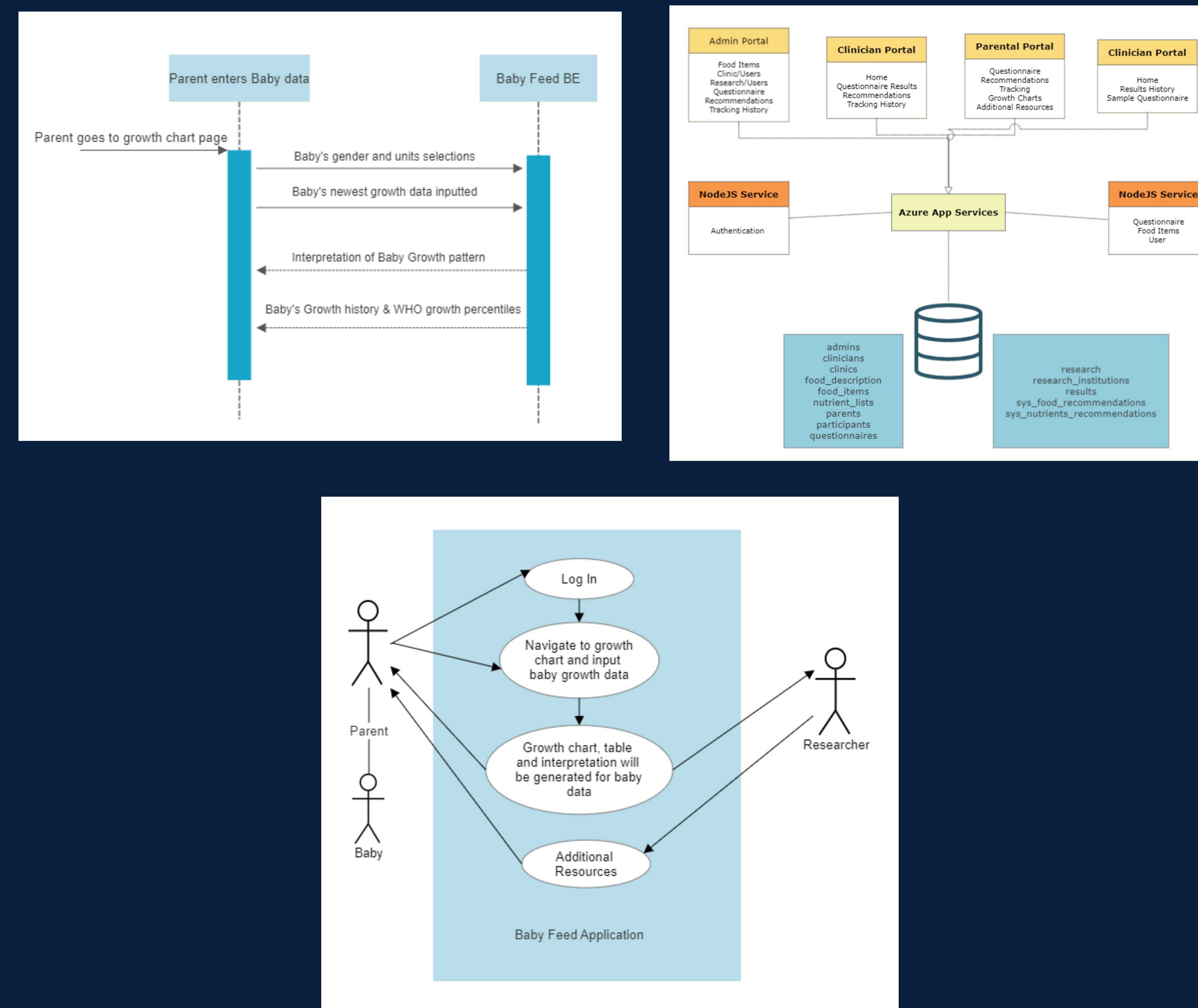
## ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by *Dr. Cristina Palacios*. We/I thank *Jada Wilson, Sergio Fernandez, Christian Derisca, Valrie Jules and Wenjia Wang* for his/her/their assistance and mentorship that I/we received throughout the senior design project.

## CURRENT SYSTEM

The growth chart has been completely redesigned with colored areas to provide a more accurate visualization of the growth percentiles the baby is falling into and hovering features that allow the user to get a more specialized view of the data. Now the parent will be able to see a table with the history of the baby's growth data to act as a support for the chart as well as an interpretation of the growth data when it is inserted that will provide to the parent whether the baby is following a healthy growth pattern. There is also a tab of video resources for the parent.

## SYSTEM DESIGN



## REQUIREMENTS

- Add colored percentiles and hovering feature that allowed the parent to view the percentile areas that the baby falls into.
- Add support for both male and female as well as metric and customary data.
- Provide an interpretation message for baby's growth pattern
- Create a supporting table to display the growth history of baby.
- Create an additional resources tab for parents to view.

## IMPLEMENTATION

- Passed in a brand-new Apex Charts library that allowed us to customize the chart to display colored areas and more features useful for the parents.
- Added logic for the selection of data for the chart based on the units (metric/customary) provided by the parent and the gender of the baby.
- Added logic for the display of a message depending on the percentile that the baby data fell into
- Correct the existing data to match the format required by the new chart.
- Created a table to be displayed underneath growth chart with the data for the specific child.
- Created a New Tab on the website with additional links that open videos for the parent.

## SUMMARY

Through the above implementation, we were able to correct the primary problems that we needed to address when we began our work on the application. The new chart library proved to be tedious but made all the difference in the system design and user-friendliness of the application.