Problem Solving (A3) Report Topic: Newborn Nutrition Tracking

Identify the Problem:

- Parents have a hard time tracking the nutrition of newborn babies.
- Many parents track this information in a sheet of paper handed to them by their doctors, which can be a tedious and time-consuming task.

Set the Target:

- The target is to create an application that can keeps track of newborn baby's daily nutrition and suggests to the parents the appropriate number of daily servings and serving sizes considering different factors.
- In addition, the application should give remainders to the mother for pumping and feeding the baby.

Analyze the Causes:

- Parents are usually overwhelmed by the amount of work that having a newborn baby carries.
- Parents have to keep track of the amount of milk their babies are eating between formula and breastmilk every day.
- The nutrition plans for babies are specific to every child making it harder for parents to understand the optimal number of daily servings and serving sizes to give their children.

Name: Kathiana Diaz Mendoza

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Propose and Implement Countermeasures:

- We want to create a tracker for parents to log the ounces of breast milk and formula milk their babies are drinking daily. We can suggest daily servings and serving size based on the babies age and weight.
- Work on a UI were the data will be logged. It should include a calendar view.
- Develop password and username system.
- The application should give remainders to the mother for pumping and feeding the baby.
- Work on the algorithms that record the data and provide results based on the following table.



Check/Evaluate:

- By keeping track of the baby's nutrition and suggesting servings, the parents are able to fulfill correctly their baby's needs.
- By providing remainders for pumping and breastfeeding, we are helping the mother be more organized and be able to plan ahead.

Act and/or Standardize

- The nutrition could also be affected by other factors including the frequency of the baby's diaper change. We could keep adding new parameters into consideration to make more accurate predictions.
- Later on, the recorded data could be used to optimize our algorithms and update our system.