1. General Overview
   1. Grocery List. Keeps track of past shopping sprees, and coupled together with budget data gives a score for each new shopping trip. Analytics page to display past and current data.
2. Technical Challenges
   1. It will most likely be a challenge to display all the information on the main page that we need to display, because of the uncertainty in the number of active shopping lists.
   2. We plan on implementing a sorting capability within the shopping list to display items based on priority (want/need/none) as well as price and name and even quantity. So there will need to be several different methods/one method overloaded a bunch of times in order to be able to sort each item on each field.
   3. As of yet, Room and the database side of this is largely unknown, so the implementation of the autofill/dropdown for creating a list from a template will require some research and learning.
   4. We will also need to delve deeper into the world of canvas.drawxx() in order to accomplish our analytics page design complete with scatter plot and pie chart.
3. Requirements
   1. Due to the nature of the a shopping list it makes the most sense to use the MVVM design pattern, as the ui will be separate from the main logic while also separating that from the data in use, ie the shopping lists
   2. There will be use of the navigation component as we are intending to have multiple screens to switch between from the main page to individual shopping lists to the analytics page
   3. The app will be useful as it helps one keep track of shopping lists and tracks that data overtime
   4. The remainder of the requirements are inferred to be met through making the application.
4. Time Estimation
   1. Main - total of 8 hrs
      1. Add New List - total 4 hr
         1. Create from Existing - 4 hr
   2. Analytics - 10 hrs
   3. ShoppingList - total 12 hrs
      1. ListItem - total 10 hrs
         1. Database for suggested price? - 8 hr
   4. CurrentTrip - total 10 hrs
      1. Add Item - 4 hrs
      2. Checkout - 1 hr
      3. Sort - 3 hr
   5. Grand Total - 40 hrs
5. Group Members
   1. Luke Shumway - A02268065
   2. Shawn Thorne - A02305794
   3. Emma Wheeler - A02312062