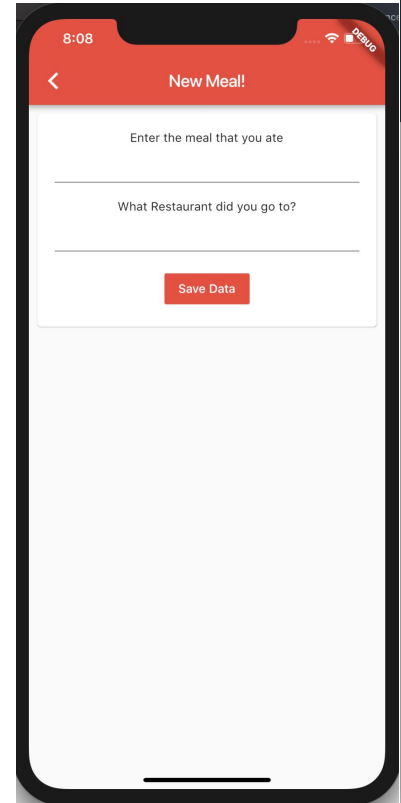# Restaurant recommender

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General Idea

- Recommend restaurants that are similar to the places the user is going
- Suggest frequently bought together items
- Use Google's Places API to locate nearby restaurants that fulfil the categories selected by the program

What data structures are we using?

- Graphs
  - This is how we will recommend different restaurants/food
  - Given a user's saved restaurants/foods, our program will search the graph and return related restaurants/foods
- Linked List
  - Store restaurants/foods a user has saved
  - Multiple users?
    - Have a main linked list containing a user in each node
    - Each node will contain a pointer to another linked list with that users data

Plan

Have a flutter program that allows us to take the food and restaurant the users had tried and recommend other similar options to that food, then using Google maps data show the user information on the recommended restaurant. Our program may suggest further options the user could try out as well.