**FooCycle**

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**Mission Statement**

*To promote food sustainability by encouraging food waste reduction and facilitating food exchange.*

**Inspiration**

Have you ever bought too many groceries or had food that you didn’t want to eat anymore? Many Americans throw away perfectly edible food. According to the U.S. Food and Drug Administration, in the United States alone, Americans waste $160B of food, which is nearly 30 to 40 percent of the entire U.S. food supply. At the same time, one in eight Americans struggle to put enough food on the table.

**What it does**

FooCycle allows users to post about unwanted food items or leftovers within communities. Food that is not necessarily expired or bad, just not wanted by that particular consumer anymore. Community members can see the food postings within their community, browse through, and contact other uses for food that might be interested in.

**Stack**

The project’s main database system is planned to be built in NoSQL’s MongoDB. Our plan as of right now is to use the MERN stack (MongoDB, Express, React, and Node) to build an interactive web app for our project. However, we might change this later on to a simpler web connector or a more primitive project that can run in the command line but still expresses and demonstrates the intricate uses of MongoDB.

**Functionality**

Users will be able to query our MongoDB database through the interactive web app, and also be able to perform all the CRUD operations through MongoDB. Users can add communities, add users, update user names, view postings, communities, and delete communities as well. There is much more functionality and scalability for our project as well. Future implementations may include in app communication, a sub-database for reviews, statistics, and user authentication. While potentially being out of the scope of MongoDB demonstration, any feature that can display the implementation of MongoDB will be written and added. Currently, we have a rudimentary demonstration of our project using Python and MySQL.