



IBM - CALL FOR CODE

Food Loop

Help change the world



How it begins

AGRICULTURAL INDUSTRY

- One of the best ways to understand and give value to local farmers and the small agricultural industry came when the world almost collapsed with a pandemic, where lockdown was the solution and food was one of the primaries concerns.
- If the world is in a lockdown, you have to depend by online services, and that is when Food Loop came in mind.



About Food Loop

WHAT WE DO

- This service is a subscription box optimized, literally, for your dietary needs.
- The boxes are individually constructed following an algorimactly solution for your nutrition needs, and the locally accessible foods produced in your region.
- Also, it eventually includes infos of these farmers that produce the food you will consume. (Eventually, even recipes)

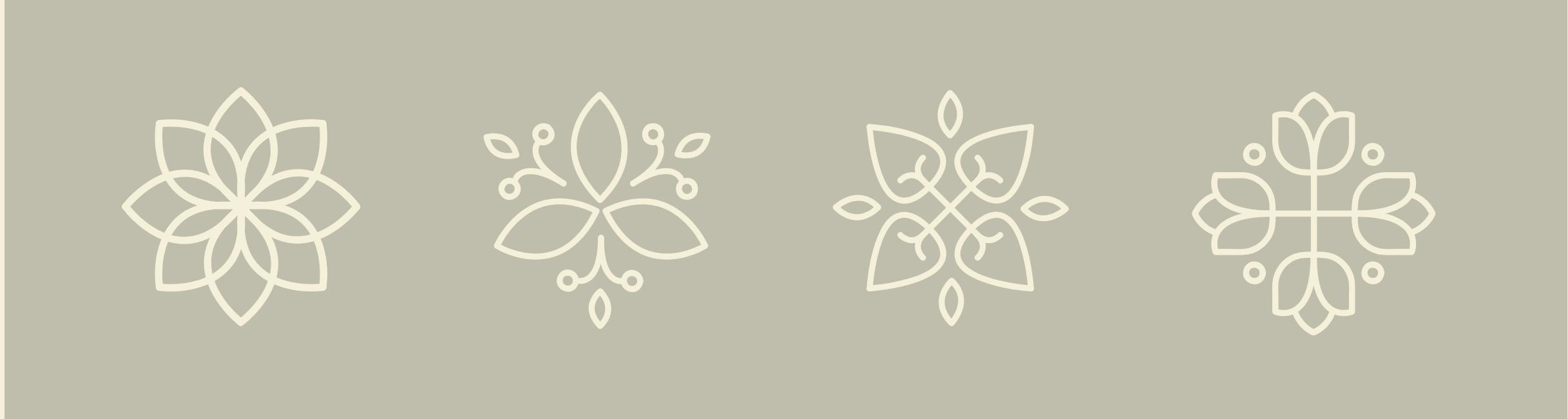


For the Farmers

- our service will provide suggestions of new goods to plant/produce. These suggestions will be tailored to farmers, based on their regional nutrition demands, as well as climate, farm space, budget, etc.
- that will be feed to AI algorithms that can suggest better investments.



How it Works



FOOD LOOP - SUBSCRIPTION BOX

- When clients are interested in our boxes they can access our site, and look at eco-friendly produced food that can satisfy their needs.
- For the local farmers and small agriculture investors we have a market to sell their products, and maintain their well-being.

About Food Loop ideas



WHY IS IMPORTANT?

- The world consumes a lot, and with that we have the big agricultural industry that is responsible, globally, for 70% of the use of freshwater. This causes a huge impact in the climate changes.
- With a progress to give more space to local farmers, more families can support an ecological small business, have a better diet and help the world with these little changings.



What's Next

for ours boxes we have a lot of ideas, but the initial products can be chosen and the customers will decide the plan to receive the box weekly, monthly or yearly.

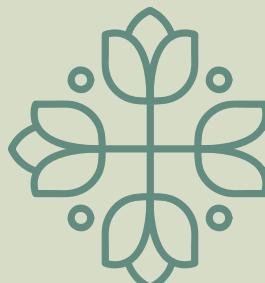
Initial Products



veggies



fruits



snacks



extra: recipes



Our Code

Our recommendation system is built using the IBM® Watson Machine Learning. This system uses regional information of the farmers, as well, as the demands from consumers in their region.

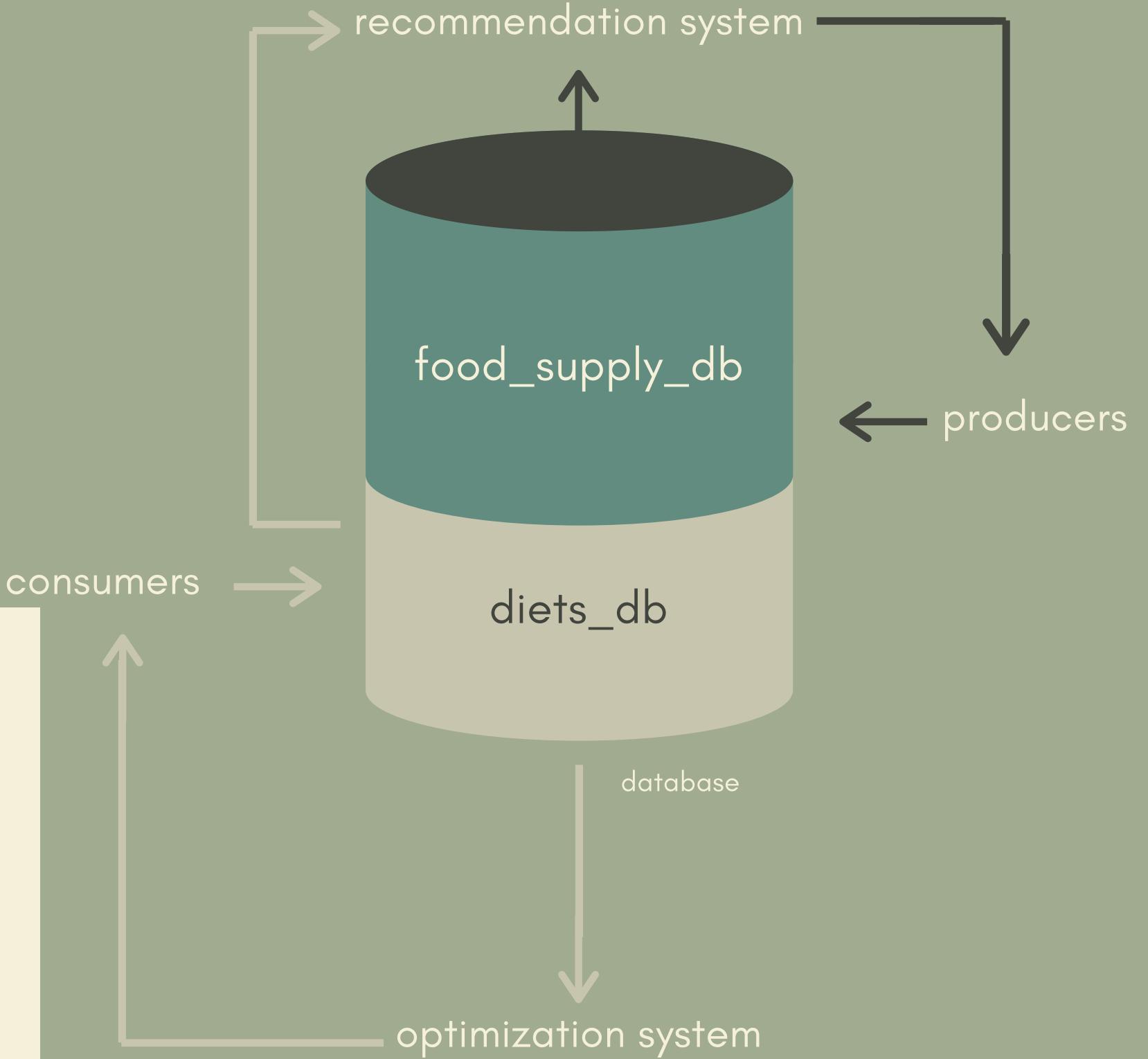
On the other side, our optimization system takes the consumers' diets and models them as a Linear Program, and uses the IBM® Decision Optimization for Watson Studio to solve each problem. From the solutions we can craft the boxes for our clients.





MACHINE LEARNING

- Our solution basically uses two different systems: a recommendation system, and an optimization one. The first, is directed for the food producers, while the later is related to consumers.
- Both systems rely on a unified database, with two important distinct representations: diets and foods. The diets database stores all diets from our clients, that will be used for construct their box, while the food database store the stock of food produced by the registered farmers, also contains the nutrition of specific foods collected from FoodData Central.



With this, we wish to give space for small farmers and producers to gain recognition, while providing food with quality for our clients.

At the same time respecting the nature and using recycle material to produce our boxes, prioritizing our costumers and their needs.



Breath Nature

The Idealists



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CLEITON NEVES

github @cd4sh

"Connect with the
community, Reconnect
with the world"

FOOD LOOP

