SMART CABINET

The Smart cabinet stores packages of food ingredients. It collaborates with the smart counter and the smart stove to correctly infer the cooking actions.

LCD DISPLAY

LCD will show the nutritional information of the food ingredient mixtures and the recommanded amount of each nutrition composition.

SMART STOVE

The smart stove embedded with a load cell and a RFID reader to detect the weight of containers placed over it.

SMART COUNTER

The smart counter can detect countertop cooking actions. We assume that all food ingredients are stored in RFID-tagged containers. Using the weight change of each container, we can inference how a user mixes food ingredients and the nutrition information of the resulting mixtures.



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HOW DOES THE SYSTEM WORK

The system includes a smart counter, smart cabinets and a smart stove. All the components are embedded with weighing sensors and RFID readers to detect the weight transfer between components and containers

During the cooking process, a user is enhanced with healthy awareness about the nutritional information of food ingredient mixtures in each container and the recommanded amount of each nutrition composition in each container. A user can then follow the recipe and use the information that system provides to adjust the amount of food ingredients.

SMART CHEF

A smart chef can use this system to prepare healthy and delocious dishes.