

Project Description

- **Overview:**
 - This project will be give the user information about the product they search for. It can process an image. The user will take a photo of a barcode of a food item and the user will get back the item's information including the nutritional facts. The user can check for a certain ingredient for allergies or preferences and it will say if it is a part of the ingredients or not. The program will also have a data base for local branded products to help consumers.
- **Features:**
 - Scan for information: the program can see the barcode and find the product and display its nutritional facts
 - Check for allergies or preferences: you can check only for the product one ingredient without needing the rest of the information
 - Search by typing: you can just type the name of the product without taking the picture of the barcode and you'll get the information
 - User friendly interface: the program will have a simple to use interface that the user can choose the searching method from.
 - Display of the item: when a user searches for a certain product the user will get the photo of the item so the user knows that the item is what they are looking up.
 - Can work on local brands: The program will have a data base containing local branded items. The familiar and popular local items will be inputted in the data base.
- **First check point** - a set of features you will demo at the first checkpoint. Describe each feature and if you will implement part of a feature, indicate that clearly.
- **Libraries :**
 - Urllib, openCV, imageWriter, Tkinter
- **The Special Feature:**
 - I think the local market brands are the ones less exposed to this kind of applications. I think having this feature will be useful outside the use of this course. I personally wanted to use it for different types of products that are locally made. I know that non Arabic reading consumers would appreciate this feature, because I have noticed that few products either do not have English translations on their ingredients list or have poor translation. I think feature will come in handy especially because the local brands are growing now more than ever.