Project Description

- **Overview:**
  o 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**:
  o Scan for information: the program can see the barcode and find the product and display its nutritional facts
  o Check for allergies or preferences: you can check only for the product one ingredient without needing the rest of the information
  o 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
  o User friendly interface: the program will have a simple to use interface that the user can choose the searching method from.
  o 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.
  o 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** – make the interface and set up some of the data base for the local brands items

- **Libraries** :
  o Urllib, openCV, imageWriter, Tkinter

- **The Special Feature:**

  o 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.