A-Tracer/Allergic/Allergy Checker/A-Checker

Social Aspects of the case:

* We all know that grocery shopping can be time-consuming, now imagine if you or some close to you have dietary restrictions in from of a food allergy. Having to read the nutritional label on every single new product you wish to purchase just to make sure it does not contain any trace of something you’re allergic to takes up a lot of time, and some might not even be comfortable standing in the store and reading label after label.
* With further restrictions, as reduced eye sight or difficulties reading small texts for instance, makes the task even harder and close to impossible. And limiting the person to only keep buying products they already are familiar with, thus greatly reducing their opportunities to discover new and exciting dishes instead of eating the same old dishes day after day.
* Making sure that you do not ingest something you’re allergic to, especially if you have severe food allergies, is of great importance. If you’re in a rush or stressed out, overseeing some of the ingrediencies is quite possible and the consequences can be fatal.

Technological Aspects of the case:

* Every single product that you can find in any grocery shop has its unique barcode. These barcodes are stored in a database which connect the barcodes, to their designated product. These barcodes will enable us to get all the information about which ingredients are within the desired product.

The Solution:

* Our potential solution would be to create a simple, user-friendly, and accessible application. Aiming at allowing everyone to use it no matter your age or how comfortable you are with smartphones and application. Giving you and your friends and family an easier time when grocery shopping with food restrictions.
* The application will allow the user to specify which ingredients they wish to avoid, simply by checking these off. Then using the camera on your phone, the user simply scans the barcode. The application then automatically pulls the product from the database, and runs through the ingredients checking if the product contains any of the ingredients or traces of these.