



# Open Food Facts Project proposal

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# Summary

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# Abstract

In this paper I outline possible improvements over the iOS app.

I have noticed a great lack of Apple guidelines in the design, not to mention user experience is highly affected by this.

I here suggest simple, but yet, effective changes in the design to make the app valid for Apple's style and bring value to the product.

I then dive into possible implementations which would further enrich the OFF experience.

Users need to put at ease, and yet, be informed through the App.

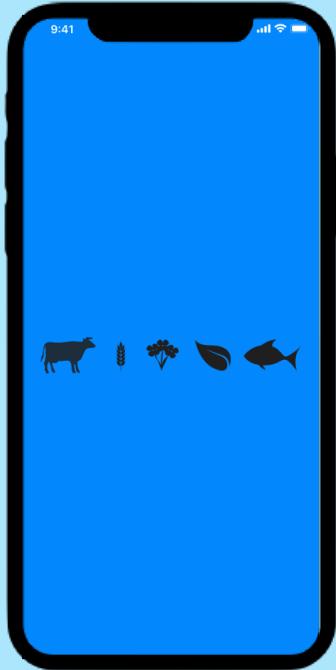
Login should be optional and would not be stressed a lot, rather the experience of tagging should be pretty immediate

# Proposal

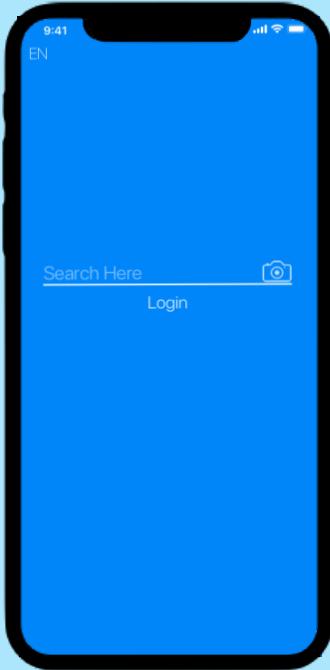
As users need to have great user friendliness in order for their products to be functional, I would suggest making the following changes to the iOS App:

1. improve overall UI adhering to Apple's Guidelines (AutoLayout for the collectionView)
2. create a brand color palette (users' eyes will get accustomed with time and makes content more readable)
3. change UI with an icon based tab bar
4. change UI with a new minimalistic and responsive search screen
5. change display of items by replacing the TableView with a UICollectionView
6. add a page controller for different macro nutrient display

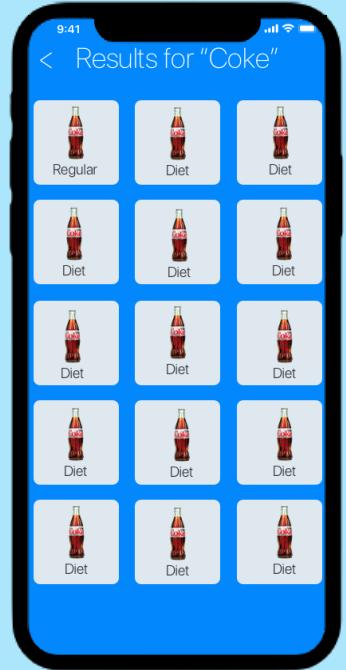
# Prototypes



LaunchView



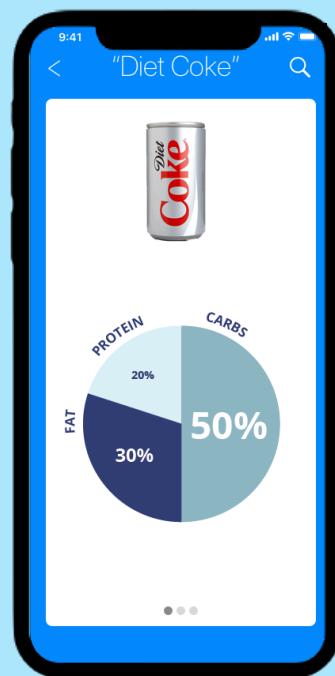
MainView



CollectionCellView



CellView &  
PageViewController



CellView &  
PageViewController

# New Functionalities

A user needs not to just benefit out of UIKit.  
iOS Apps need to be modernised with current usage.

I propose using ARKit for instant and live view of the pie chart and nutrient partitioning.

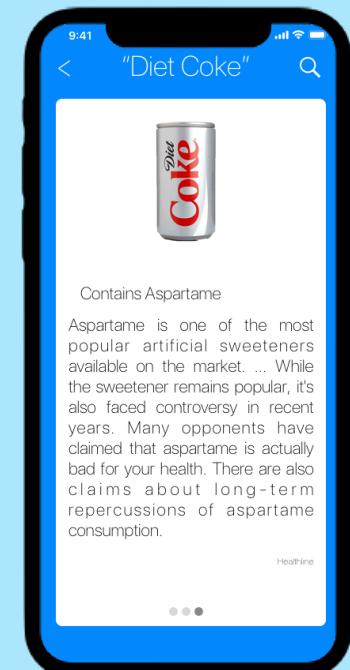
For instance, ARKit can be used to display information instantly, without additional interaction needed



ARKit implementation

I also propose partnering with online healthcare services to display additional information.

Example: diet coke contains aspartame, or for instance diet red bull contains sucralose and caffeine and use MayoClinic or LiveStrong API to display associated health dangers/benefits



CellView &  
PageViewController

# Roadmap

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- Search Screen
  - Launch Screen
  - CellCollectionView
  - Refinements
  - CellView + PieChart
  - Refinements
  - ARKit
  - APIs
  - Refinement
  - Final Wrap Up
- 1st Month
- 2nd-3d Month

# About Me



D'Ambrosio Mario Robert

Programming is what I do daily, it is not just a job or a hobby, it is what I've wanted since a very early age.

And as coding without a purpose can become boring, I find engineering problems a perfect match.

That is why I chose to attend the 'École Polytechnique Fédérale de Lausanne' to keep me stimulated on the world's craziest projects.

I have worked on DSP (Seam-Carving, GeoMap on <https://github.com/MarioRD>), prime sieving and optimisation problems.

I am currently an iOS programmer at the Apple Developer Academy, being one of the 400 scholarship winners.



Get my CV Here