

Logo History









Word List

Trustworthy	Grading	Beneficial	Advocacy
Honest	Cooperation	Food	Lobbying
Standards	Benevolent	Nutrition	Connections

Extra Virgin Easy to Use Health

Proposals



RFID Chip and App

Program an app that will be fraud resistant with the following features included:

- a. Producers Information
- b. Harvest Date and Certification Date
- c. Redesigned Seal with RFID chip
- d. Scan an Olive Oil Seal

The app will have the following optional features:

- Producer to Table that tracks olive oil from the producer to the store.
- Recipes that contain olive oil.
- Various levels of advertising for fund raising.
- 2 Hologram Seal
- 3 Producer's Name on Seal

Related Logos



























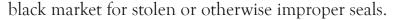




Problem Statement

One of the major problems facing olive oil producers and certifying agencies such as the COOC is counterfeit merchandise. Many people want to sell fake "Extra Virgin Olive Oil" and cash in on the big rewards. As the COOC grows larger and gains influence, some manufacturers may try to counterfeit the seal.

The current seal is just a sticker with the date on it or not as in the dated seal or generic seal. This is very easy to counterfeit and moreover there is no specific manufacturer on the seal so anyone can take a genuine seal off one bottle and put it on theirs. When the COOC seal grows in popularity and acceptance there may be a





If a customer uses an app to identify the sticker by producer/grower and compare it to the bottle being sold, fraud can be significantly reduced and the consumer can be more assured that they are buying genuine olive oil as opposed to being victimized by fraudulent olive oil. This is very important to our food supply security.

The current website lists all approved manufacturers of olive oil but how many consumers go to the store then check the website to see if a particular manufacturer is

really using the seal properly or improperly?

The COOC has the opportunity to establish trust in its label and confidence that it is the real deal as opposed to a fraud. This can be accomplished at low cost as described in the next section.

Solutions



RFID Tag and App

Embedding an RFID tag into the sticker is a way to turn many consumers and store owners into fraud fighters. Using the latest technology I can allow the user to verify the integrity of the COOC Seal.









Splash Screen

The splash screen shows our new logo and loading for at least 2 seconds. (can be adjusted)



Home Screen

The main menu shows what can be done with the app and a photo of olives.



Scan Screen

When one clicks on scan a bottle they are brought to this page that invites them to scan our seal on a bottle with an RFID capable phone.



Scan Screen

After scanning, the user is brought to a screen where they are given more info about the olive oil and a chance to report seal fraud.



Fraud Screen

Clicking on Report Fraud brings the user to this screen so they are sure that they want to report the fraud and make certain that the information is accurate.



Fraud Screen

The user is prompted to take a photo of the suspected bottle.



Fraud Screen

The user is asked to confirm the quality and accuracy of the photo.



Fraud Screen

User then enters information about the store and the olive oil.



Fraud Screen

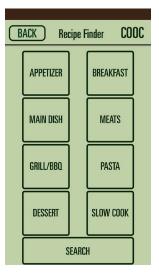
User then confirms the information one more time.



Fraud Screen

We thank them and let them know that there will be an investigation. User then clicks back to the main menu.

Recipes (optional)



Recipe Screen

When the user clicks on the recipe icon there is a list of the kinds of foods to cook.



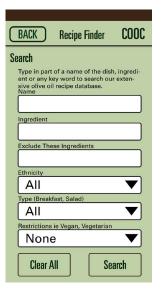
Recipe Screen

After clicking on a category the user is brought to a list of recipe items.



Recipe Screen

Clicking on a recipe brings you to a recipe page with ingredients and instructions.



Recipe Screen

Clicking search brings up this menu to look for recipes.

Meet the Producers (optional, generates revenue)

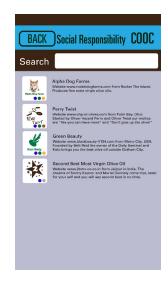


When the user clicks on Meet the Producers they are brought to a page with various levels of producer. In order to generate more revenue for the California Olive Oil Council there will be different levels of advertising that will charge an upkeep fee to be on the list. There are two levels that cannot be paid for Green and Blue which are for environmentally friendly and so-cially responsible producers and requires documentation. Then there is all COOC member list.









The above screens show various filters for searching for olive oil producers. There are little dots on the bottom right side of the logo to indicate a particular type, advertiser



Producer

When one clicks on search they are brought to this search page to look for by name location or other criteria.

being gold, silver, bronze, and blue and green for social and environmental responsibility.



Producer

After clicking on a producer one is brought to the producers page on the app with a view of the area and a glamour shot of the product.

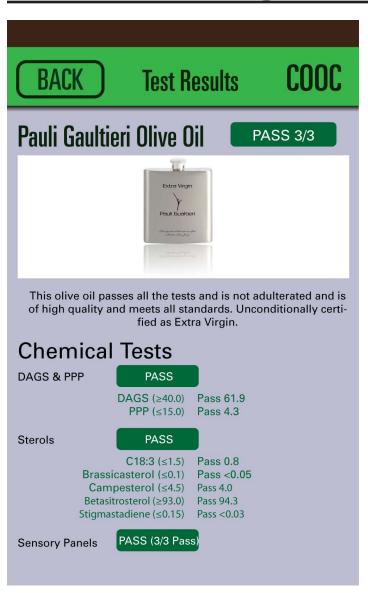


Test Results (optional)

There are Test Results links on the profile pages of the olive oils that are listed. When the user clicks on the Test Results button they are brought to the next screen on the next page.

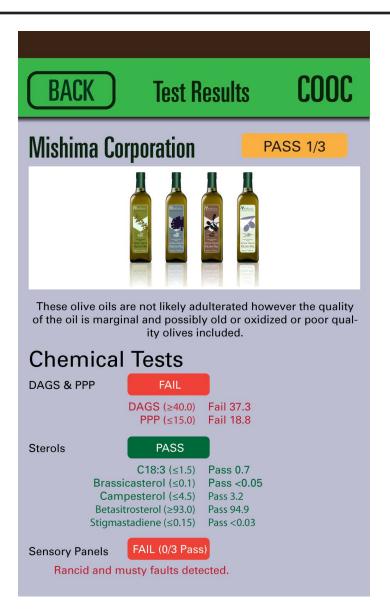






Good Olive Oil (optional)

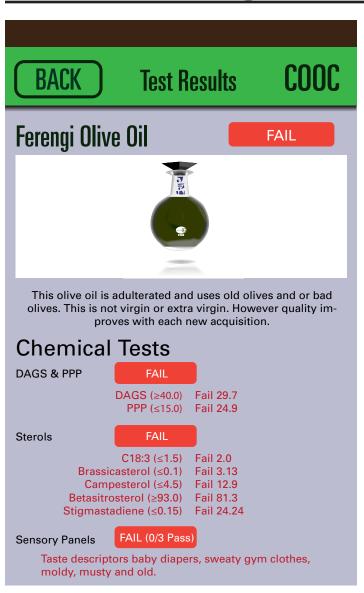
Shown on the left is a good result for an olive oil test that passes all criteria including diacylglycerols (DAGs) pyropheophytin (PPP), sensory tests, and sterol tests.



Marginal Olive Oil

(optional)

Shown on the left is a semi passing result for an olive oil test that passes all criteria except DAGs and PPP. This passes one of the three criteria.



Defective Olive Oil

(optional)

This olive oil does not pass any of the criteria and is not certified.





ERROR



Screens showing the possible outcomes of a scan with genuine or questionable results.



Food Security & Tracking (optional)

A sample screen showing tracking on an olive oil shipment. This helps cut down on fraud by tracking every legitimate shipment to cut down on fraud as much as possible and increase food security.

Options for the labels

If a producer sells olive oil in a large container as opposed to individually packed bottles. There can be one sticker that is cloned onto a sticker sheet of seals with the same ID for tracking. One sticker is placed on the container for tracking, the rest are applied to the bottles that are filled for the customer.

If a producer sells one or more boxes of bottles to one store. There can be a cloned sticker sheet for each box of bottles where the ids on each bottle are the same. One sticker is applied to the box, the rest to each bottle at any stage of distribution.

If a producer sells pallets to a store they can use multiple sheet of cloned id stickers. The sticker will be applied to the exterior of the pallet.

Technical Details

Security through Unique Encrypted IDs

Serial Number Format EPC RFID Gen 2v2

01 • 000C00C • 0007F6 • 00000FF

Version COOC ID Producer ID Product ID

Number Generation:

When an olive oil seal is manufactured the Producer ID is set and each seal is run with a unique product id. Of course the producers and product ids will not be incremental as 1,2,3. There will be a geometric check-summed algorithm whereas the id will always checksum to the last digit.

Producer code: check digit is the country code mod 16 (0-F)h. The number is all the numbers added up then mod 16 to equal the checksum.

Product code: check digits is the last two digits of the year mod 16.

Greece = 1, Italy = 2, Spain = 3, France=4, USA = 5, Japan = 6, Australia = 7.

If the checksum on the label is not correct then the label is fraudulent.

The app will detect fraudulent labels.

Sample Producer Codes in Order

USA produced 000055h = 5h = 5 % 16 = 5

000145h = 1h + 4h = 5h = 5%16 = 5

000235h = 2h + 3h = 5h = 5%16 = 5

000325h = 3h + 2h = 5h = 5%16 = 5

000415h = 4h + 1h = 5h = 5%16 = 5

000505h = 5h = 5%16 = 5

0006F5h = 6h + Fh = 21%16 = 5

0007E5h = 7h + Eh = 21%16 = 5

Additional Security









Holograms (optional)

Using a three layer hologram we can increase the difficulty in reproducing our seal and make soaking off the seal difficult because soaking will damage the hologram reducing reuse.



Producer's Name

(optional)

Printing the producers name on the seal can reduce fraudulent reuse of the olive oil seal by others.

Benefits

These articles below show a disturbing increase in food fraud where people are deliberately labeling one kind of food as another and misleading people. As consumers we see this apparently unabated criminality as a sign that the FDA and the USDA are not doing their jobs so our confidence in our food diminishes. This hurts producers and prices of olive oil making a measurable impact on the olive oil industry as a whole. By making olive oil less susceptible to fraud we will increase the amount of money that producers can make with legitimate olive oil. The benefit of this can be in the millions of dollars and long term be well worth any investment.

The FDA and USDA can be pressured by consumers movements to help national security by passing regulations for labels and adding certification requirements to use certain words on food labels such as regulating the term Extra Virgin to include a certification requirement.

Links to fake olive oil articles:

http://www.foodrenegade.com/how-tell-if-your-olive-oil-fake/

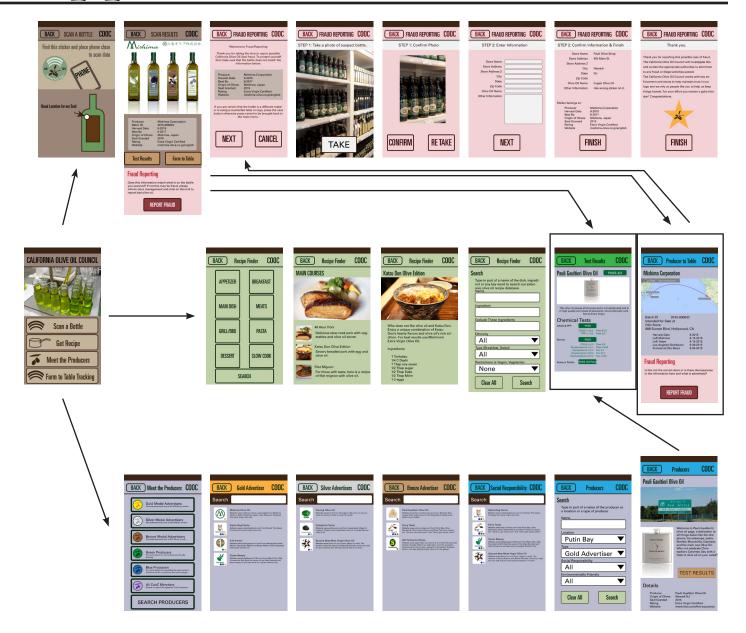
Food Fraud:

http://articles.mercola.com/sites/articles/archive/2013/05/04/food-fraud.aspx

More Fraud:

http://foodidentitytheft.com/food-fraud-comes-in-two-varieties-illicit-and-officially-permitted/

App Screen Chart



Costs

This app is very customized and requires database work as well as custom UI and security. There is camera function as well as search and administration functions on the app. The estimated cost for these on the three platforms will be \$175,000 includes Android, Windows, iPhone.

Competitors quotes:

https://www.otreva.com/calculator/#

http://appestimator.tusnuadesigns.net/

http://www.kinvey.com/app-cost-estimator

http://www.formotus.com/14018/blog-mobility/figuring-the-costs-of-custom-mobile-business-app-development

The RFID antennae on the seal costs less than 5 cents each.

Hologram costs

http://www.zebraimaging.com/pricing/

Credits

California Olive Oil Council for old logos.

Various olive oil stores for the comparative logos on pages 4 and 5.

Apple and Sony for illustrations of their phones on page 7.

Takao for photos of farm on page 7 and olive oil bottle on page 8.

ABC for the still of the Brady Bunch on page 7.

Cortopassi Farms for the 4 bottles on page 8, Mishima label Design is by Brian Imagawa.

Acme for the flask on page 12, the design for Pauli Olive Oil is by Brian Imagawa.

All other photos, illustrations and designs are original Brian Imagawa works.

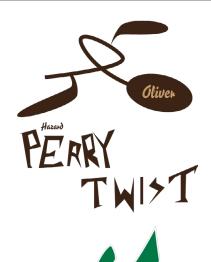
Little Gallery















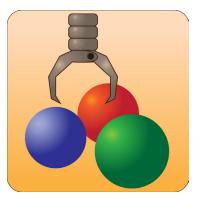














Thank you.











