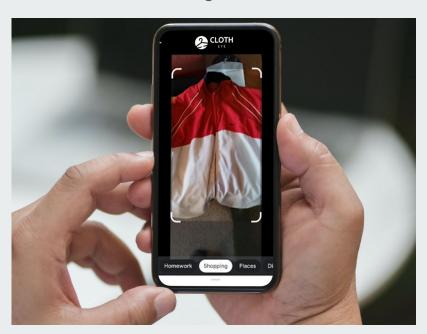
ClothEyeClothing Scanner

App development Case study G1102 - IM



S1: Select app space

Clothing Scanner

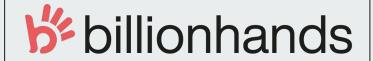


Game



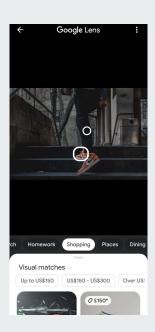
S2: Clothing Scanner

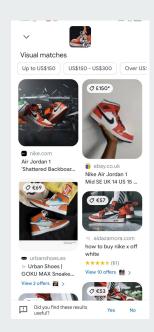




Google Lens

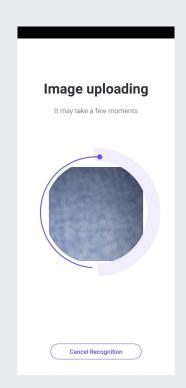
- -Very general: Translate, Text, Search, Homework, Shopping...
- -Expensive products (Price from original reseller)





CamFind

- -Slow uploading
- -Not a lot of results
- -Object detection oriented



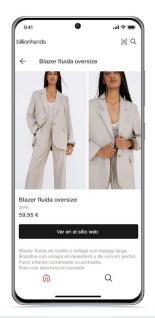


Billionhands

- -Influencer oriented
- -No live recognition within the app

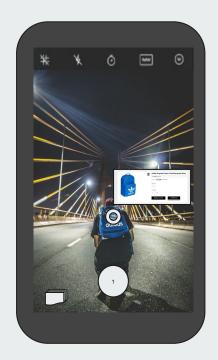


...y compra la prenda **que más te guste.**



S3: Design, functionality, UI

- Load image from gallery
- Basic camera parameters
- Trigger to freeze image ¹



Functionality Approaches

1- Local Image Recognition





2- Server Image Recognition







3- Server + Cloud Image Recognition













Remote Image Recognition using Cloud APIs

Client



Android application developed using Android Studio.

Takes pictures with camera and send data to our server using HTTPS.

Enterprise Server



Linux server running script which receives images and analyzes them both locally and remotely using TensorFlow and Google Vision API. Once the labels are obtained we call cloud API again to search for corresponding products.

Cloud APIs

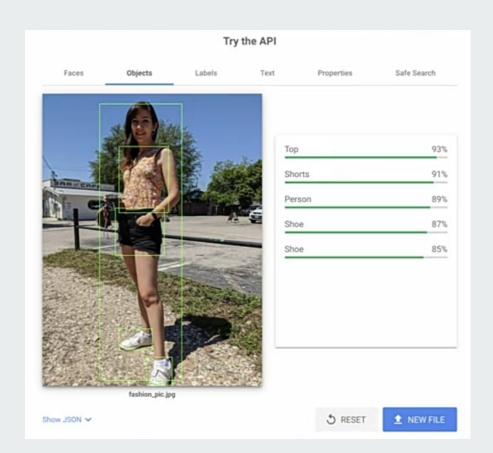


Cloud APIs return labels which are used to identify clothing and products that match the description given.

Google Cloud Vision API

- -Label detection
- -Product Search

Try it! | Cloud Vision API

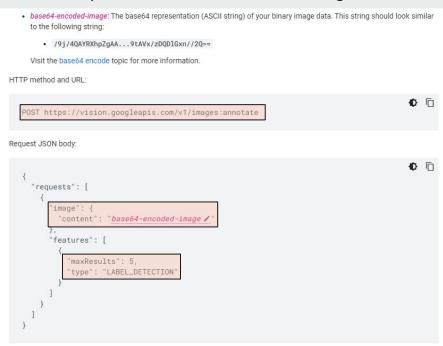


Vision API Pricing

	Price per 1000 units					
Feature	First 1000 units/month	Units 1001 - 5,000,000 / month	Units 5,000,001 and higher / month			
Label Detection	Free	\$1.50	\$1.00			
Logo Detection	Free	\$1.50	\$0.60			
Image Properties	Free	\$1.50	\$0.60			
Crop Hints	Free	Free with Image Properties, or \$1.50	Free with Image Properties, or \$0.60			

Label Detection

Request label detection on an image:



JSON Response:

```
"responses": [
    "labelAnnotations": [
        "mid": "/m/01c8br",
        "description": "Street"
        "score": 0.87294734,
        "topicality": 0.87294734
        "mid": "/m/06pg22",
        "description": "Snapshot",
        "score": 0.8523099,
        "topicality": 0.8523099
        "mid": "/m/0dx1j",
        "description": "Town",
        "score": 0.8481104,
        "topicality": 0.8481104
```

Product Search

- Create product set (Using API and scrappers)
- -Make request with local image
- Get response with **matching products** on your set

```
Request using local image:

{
    "requests":[
    {
        "image":{
            "content": base64-encoded-image
    },
        "features":[
        {
             "type": "PRODUCT_SEARCH",
            "maxResults": 5
        }
        ],
        "imageContext":{
            "productSearchParams":{
            "productSet":
        "projects/project-id/locations/location-id/productSets/product-set-id",
        ...
```

Response:

The response JSON includes the two following result types:

- productSearchResults Contains a list of matching products for the entire image. In the sample response the matching
 products are: product_id65, product_id35, product_id34, product_id62, product_id32.
- productGroupedResults Contains bounding box coordinates and matching items for each product identified in the
 image. In the following response there is only one product identified, followed by matching products in the sample product
 set: product_id65, product_id35, product_id34, product_id93, product_id62.

Product Search API Pricing

Tier: images/month	List price		
Number of images	0-1000	1001-5,000,000	5,000,001-20,000,000
Prediction per 1000 images	free	\$4.50	\$1.80
Storage per 1000 images	free	\$0.10	\$0.10

Clothing Websites APIs, Scrappers

```
var axios = require("axios").default;
var options = {
  method: 'GET'.
  url: 'https://asos2.p.rapidapi.com/v2/auto-complete',
  params: {
    q: 'bikini top',
    store: 'US',
    country: 'US',
    currency: 'USD',
    sizeSchema: 'US',
    lang: 'en-US'
  headers: {'X-RapidAPI-Host': 'asos2.p.rapidapi.com', 'X-RapidAPI-Key': 'SIGN-UP-FOR-KEY'}
axios.request(options).then(function (response) {
    console.log(response.data);
}).catch(function (error) {
    console.error(error);
});
```

Business model

Brokerage/Market-makers

Infomediary: Interés en marcas de una zona

Advertising: Posicionamiento



If your application is accepted, you'll be invited to browse the extensive range of Nike links a

Affiliates can earn up to 11% commission on valid sales.

APPLY NOW

FAQs

What are the benefits of Nike's Affiliate Programme?

Once accepted into Nike's Affiliate Programme, you can benefit from the following perks:

· Earn up to 11% commission on all valid sales

- · 30-day cookie period
- · Full range of category-specific affiliate banners
- · Specific Nike By You promotional material
- · Automated product feed
- · Frequent affiliate communications regarding offers and new products
- · Gifts available for affiliate-run competitions and promotions

Who can become a Nike Affiliate partner?

We've partnered with established websites including:

- Sports sites
- · Fashion/clothing/shoe sites
- News sites
- · Health and fitness sites
- True content sites
- Shopping directories
- Bloggers

Business model - II

Data used:

90€/month on clothing (avg)

20€/sale (avg)

3% Conversion rate on E Commerce

5-10% Commission for affiliate conversion

Expenses(300€/month - 50k scans):

1,5€/1K units Vision API Pricing

200€/month Cloud Server Hosting

searchvolume.io

Keyword ▼	Avg. monthly searches ▼		
clothing	18,100		
shoes	165,000		
top	40,500		
trousers	12,100		

7M * 90€/month * 0,05(Commission Rate) = 31M€ (Upper bound)

50K * 0,03 (Conversion Rate) * 20€/sale*0,1(Commission) = 3000K€

smartinsights.com

Conversion	Rate By Region						
	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Change since 2020 Q2	Change since 2021 Q1
GB	4.0%	4.4%	4.5%	4.6%	4.4%	10%	-4%
us	3.1%	2.9%	3.1%	2.7%	2.8%	-10%	5%