



Intro

Solution

Development

#Aller Scan



Group 8: Software

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#1 Introduction



Introduction

Problem we want to solve:

People are hard to know if they are allergic to a cosmetic product





Introduction

Causes of the Problem:

1. The text in the product is **too small to read**
2. People are **not familiar with the cosmetic ingredients**, thus they don't know if a product is allergic to them

#2 Solution



Solution

Develop a Scanner to Read the Ingredient List

- **Read the list automatically**
(no need to read it using our eyes!)
- **Check our database**, if there's any allergen in the list



Intro

Solution

Development

Solution: How it works



Input:

Image of ingredient list



Our Program



Output:

Allergen checking result

#3 Development



Intro

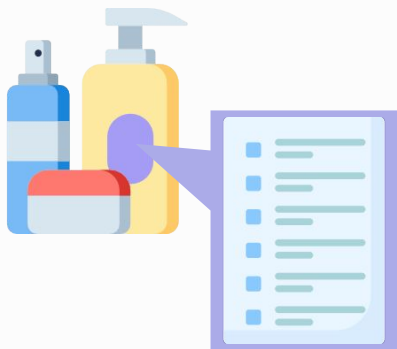
Solution

Development

Development: 3 Steps

1

Build a scanner



2

Build a database



3

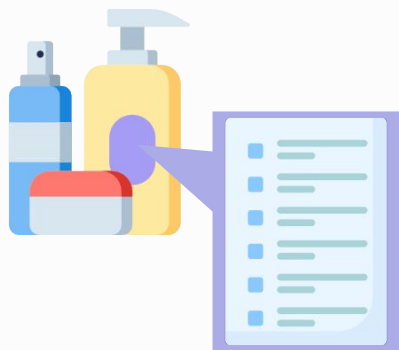
Calculate the result





Development: 3 Steps

1 Build a scanner



2 Build a database

3 Calculate the result

We Build the scanner using
OCR (Optical Character Recognition)





Development: 3 Steps

1 Build a scanner

We collect
common allergen
from an academic
review paper

2 Build a database



3 Calculate the result

Then organize
them into a table
(a csv file)



Development: 3 Steps

1

Build a scanner

2

Build a database

3

Calculate the result

We write a program to compare two things:

- The text in the ingredient list
- The allergen in our database

Then show the result:

if the list contains allergen or not





#Thanks!

Do you have any questions?



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