



CHECK IT

REAL TIME FOOD DETECTION APPLICATION UQU-CS-2022S-19

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Introduction

Due to the need of muslims, travelers and people who are allergic to certain food ingredients and struggle to know if the product contains halal or not ingredients and if a product is allergens .

We came up with "check it" it's an english language application that recognizes the text on the products using artificial intelligence using the mobile camera by scanning the product.

Abstract

Check it application helps muslims to ensure that products are free of pork derivatives and alcohol, as well as people who have allergies, by identifying the components of the product using scanning and text analysis with Visual Character Recognition (OCR), and the process of converting an image from the text into a readable text format, which can take advantage of artificial intelligence (AI) to implement Intelligent Character Recognition (ICR) methods, then compare them against the database and retrieve the results.

Objectives

Assist the user to detect if the product is halal or not, whether it contains pork derivatives or alcohol, and also if it contains any allergens.

Data collection

The data was collected in two ways :



Saved data by file
.JSON



Stored data

Tools



Existing Systems



Ask Halal



Scan halal



Allergy Scan

Methodology



Requirements



Design



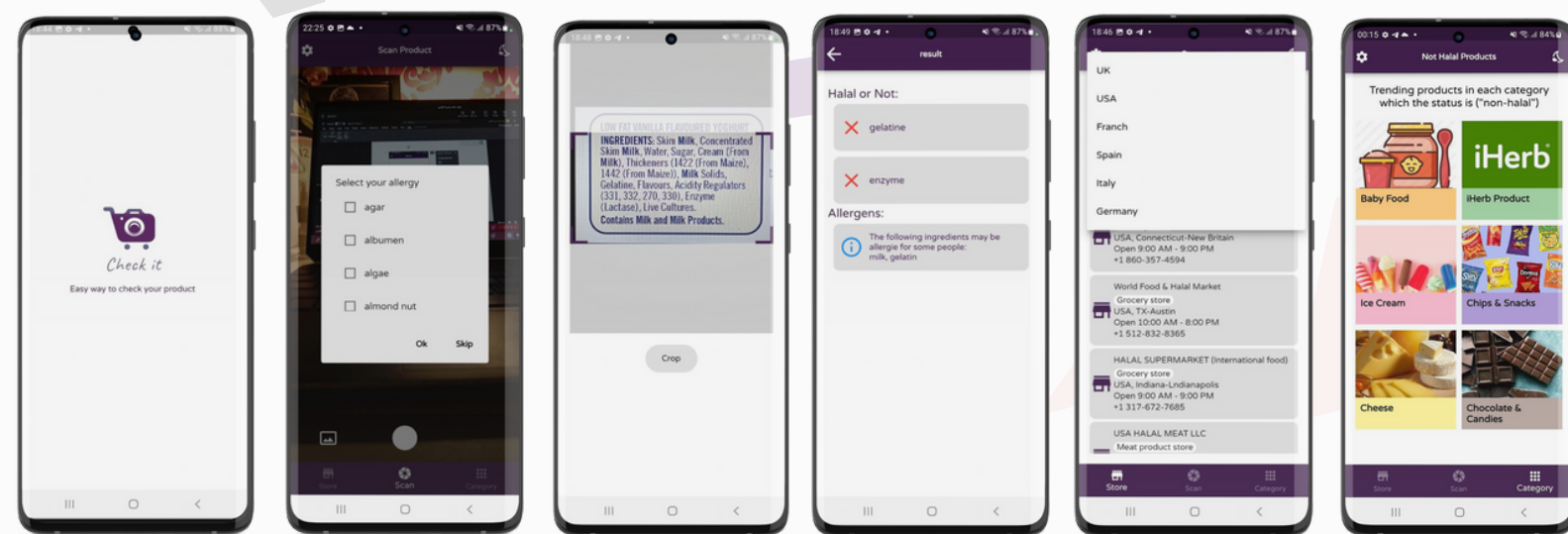
Implementation



Testing

Waterfall Methodology.

Check it Interfaces



Conclusion

This project came up with the Check it application, as it achieves the goals of the project in terms of identify the specific components of products.



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Scan to watch the demo

