

Supplement Analyzer

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Abstract

 Supplement Analyzer is a cross-platform mobile application that gives greater understanding to supplement ingredient labels.

Features

- Firebase backend for saving large amounts of data and sqlite database for saving user data
- Implements ml kit for Optical Character Recognition
- In depth information on supplement ingredients.
- Uses flutter, which allows the program to run on both ios and android.

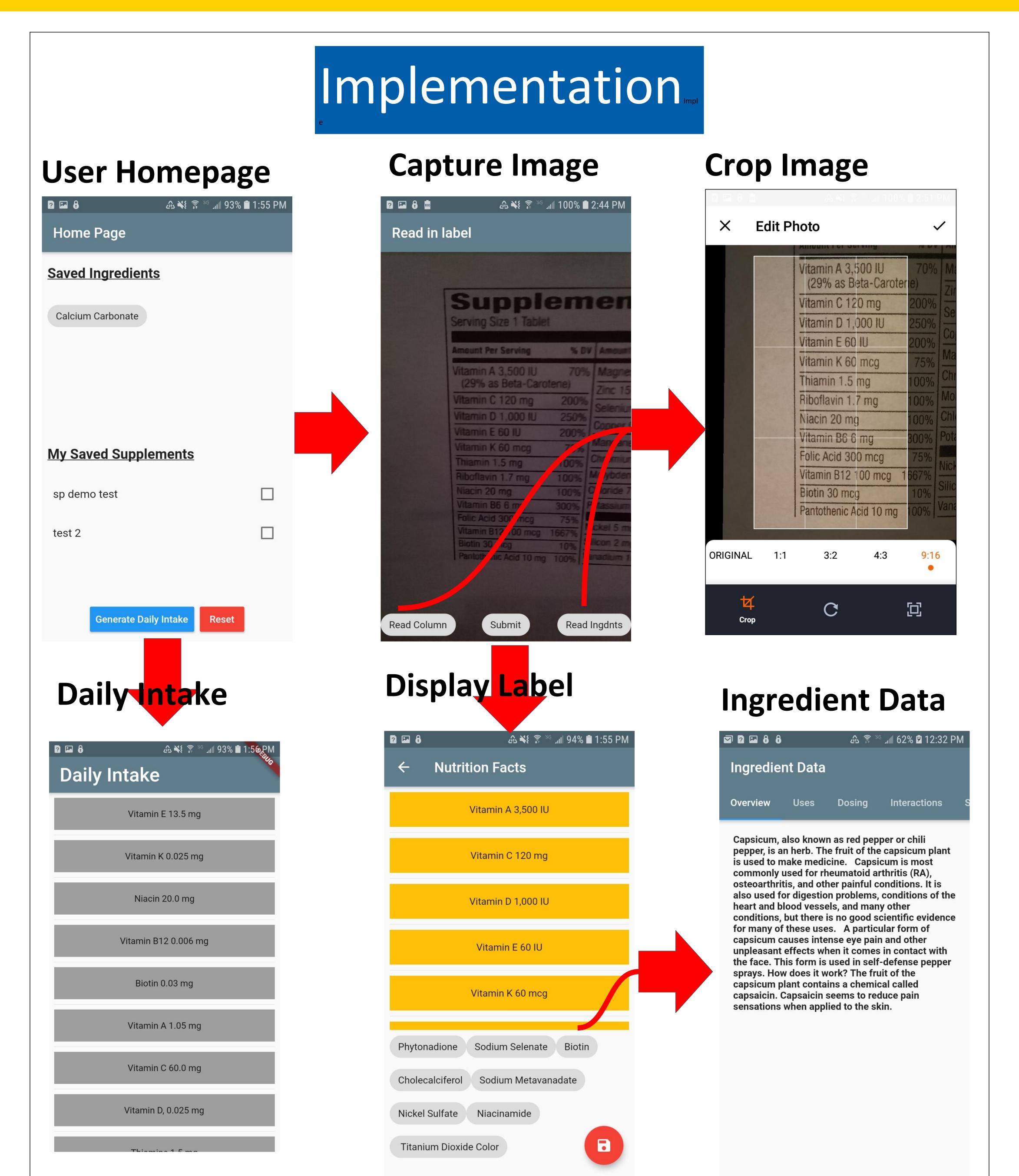




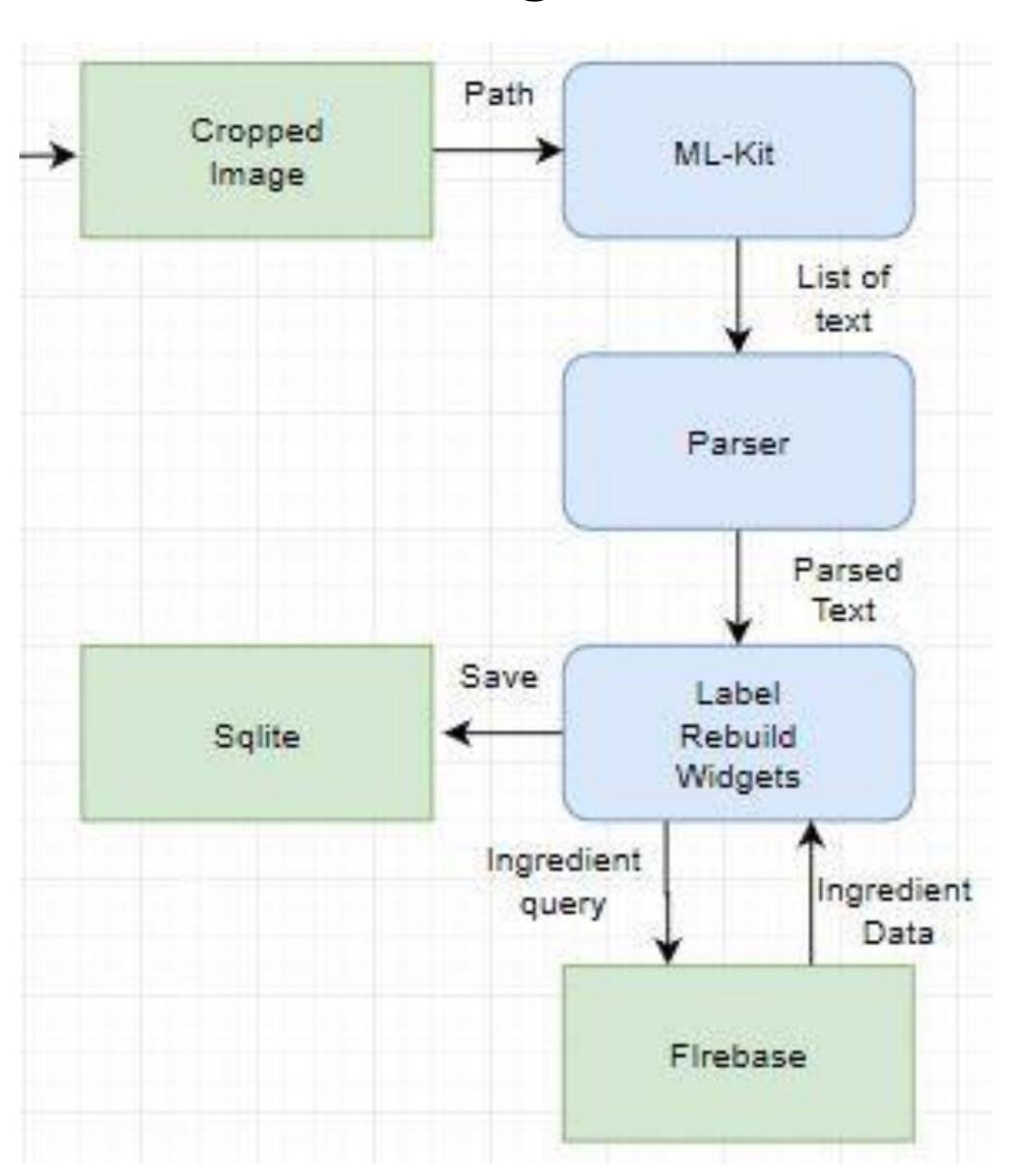


Challenges

- Using OCR(Optical Character Recognition) to read labels from the curved bottle.
- Extract the letters from blur image or picture.
- Lack of design mode, which makes UI development much more difficult.



Data Flow Diagram: Rebuilding the label



Conclusion

- In completing this project we have been able to implement many topics learned in our corsework.
- We set up multiple databases, a backend server, performed web scraping and gained experience with parsing.
- By using Flutter we have gained experience with a framework that is used by many large corporations.