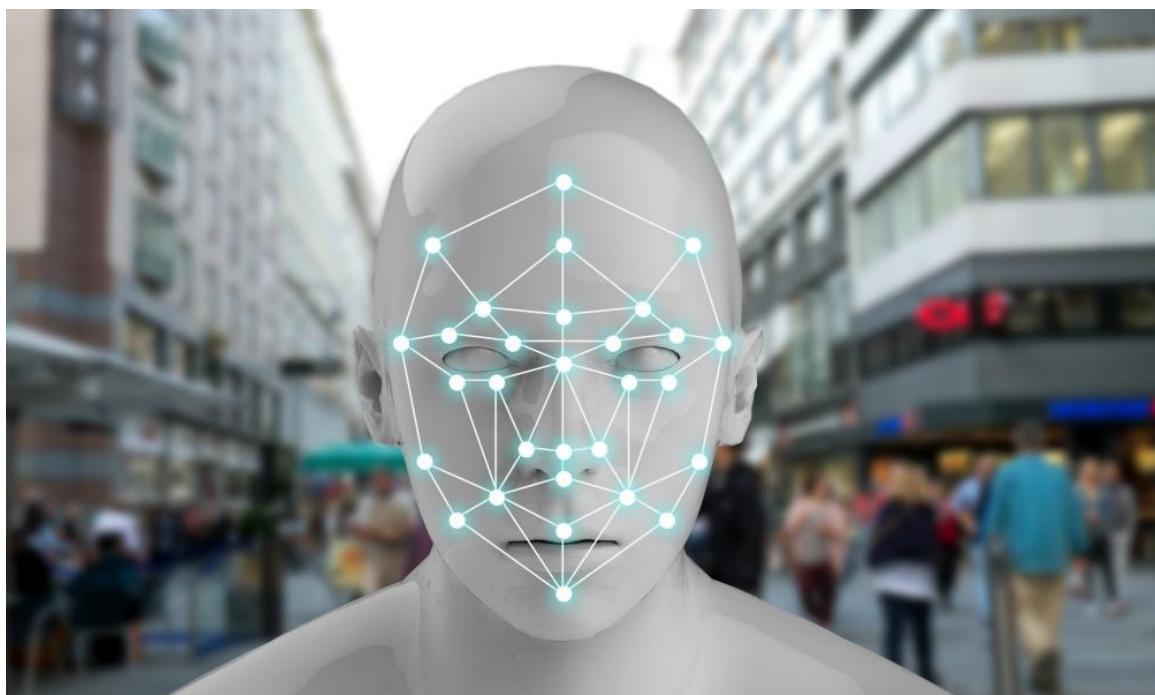


# **IMAGE TEXT RECOGNITION**

**Cross Platforms App**



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**ID: 6345**

# **OVERVIEW**

## **Objective:**

This is an image labelling app using Flutter UI with Android Studio and Google ML Vision. This app uses the phone's camera to detect texts in an image and outputs the text from the image.

It detects text in an image using Google's ML Vision which converts any text in an image such as quotes, titles, subtitles, etc. to actual text.

## **List of Features:**

1. Splash Screen
2. OCR Image to Text
3. Flutter Firebase ML Kit
4. Optical Character Recognition
5. Image Gallery Detection

## **Boundaries:**

This app will not detect characters distinct from the English alphabets.

Text will not be saved for future viewing.

# **AIM OF DEVELOPING**

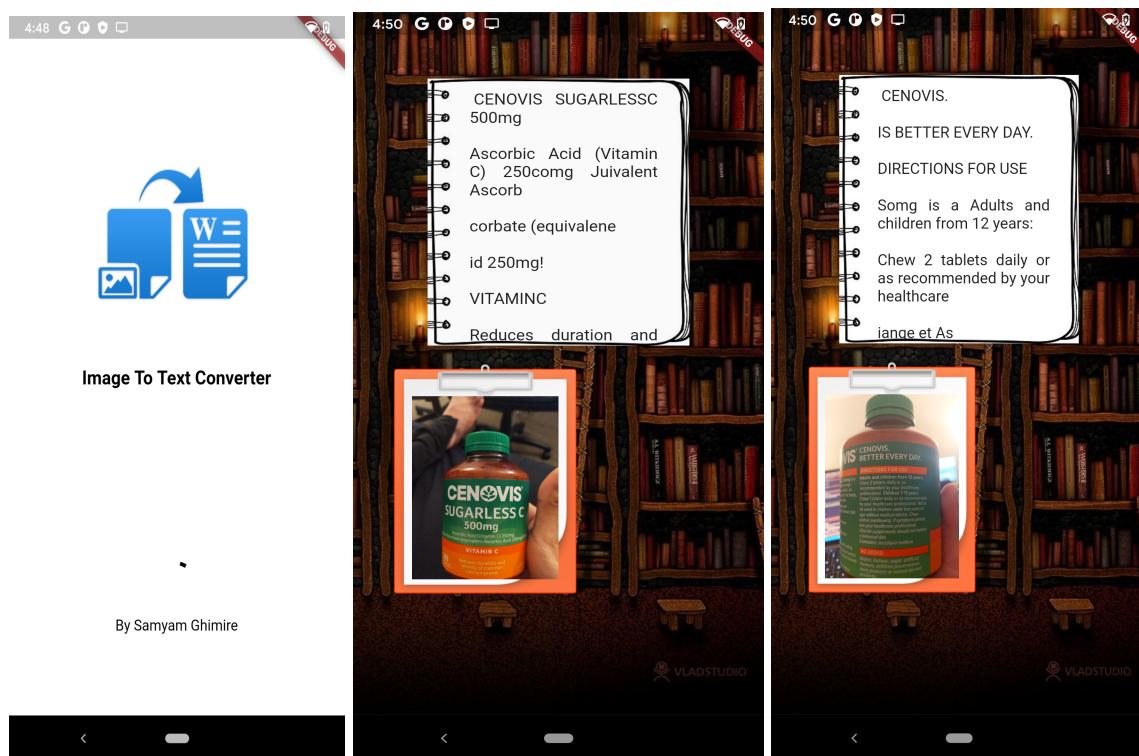
The main aim to develop this app was to get myself familiar with the flutter UI for cross platform app developing. Along with cross platform development, I can also learn about image recognition technology which can be a great asset for my portfolio.

I can learn about OCR(Optical Character Recognition) which comes quite handy if you want to obtain texts from images or PDFs. Basically, OCR can detect any kind of characters(typed, handwritten, or printed) in an image. Examples of use of this technology can be seen in Banks where they use OCR to scan customer documents and such.

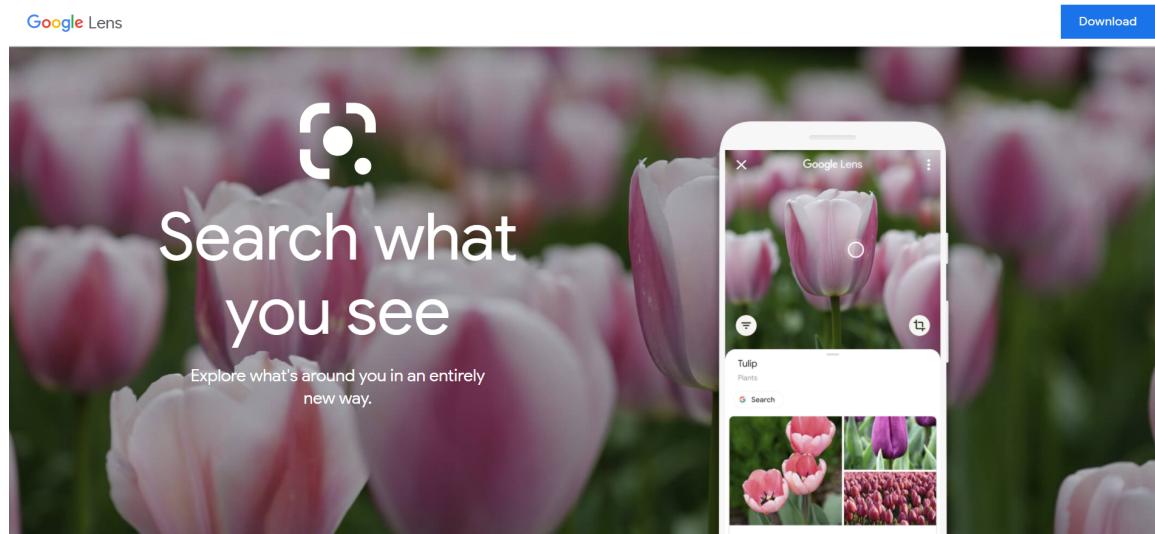
# User Interaction

The User interface and interactions with this application has a very minimal feel. The application simply provides a service this application executes effortlessly. this app is designed to be used by people of all ages.

## GUI Mockups

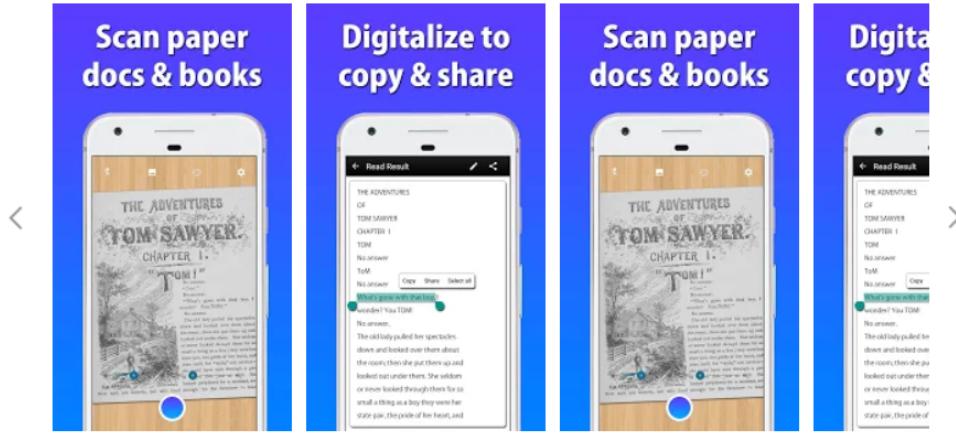
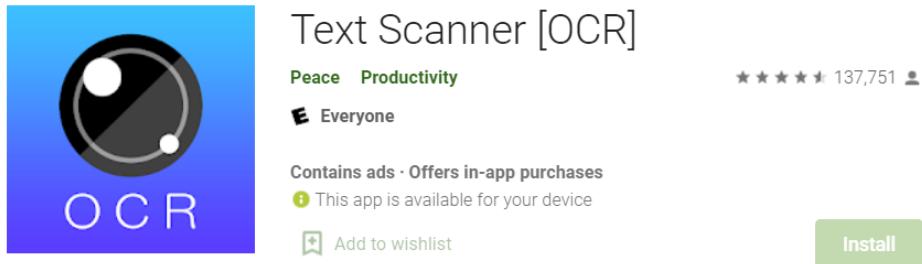


# INSPIRATIONS



Google Lens is one of the best image recognition software out there in today's world. It has several image recognition capabilities such as Text detection, text translation, object detection, product recognition, menu detection, etc.

The list goes on as Google has implemented many features in this single app. It also uses machine learning as a framework which does most of its work.



Text Scanner [OCR] is one of the best image-to-text apps out there besides Google Lens. It supports more than 50 languages and boasts that it has the highest Accuracy in OCR. From Books to Magazines to Newspapers, this app can scan and convert them all to text!

