SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai
SRI RAMACHANDRA FACULTY OF ENGINEERING AND TECHNOLOGY

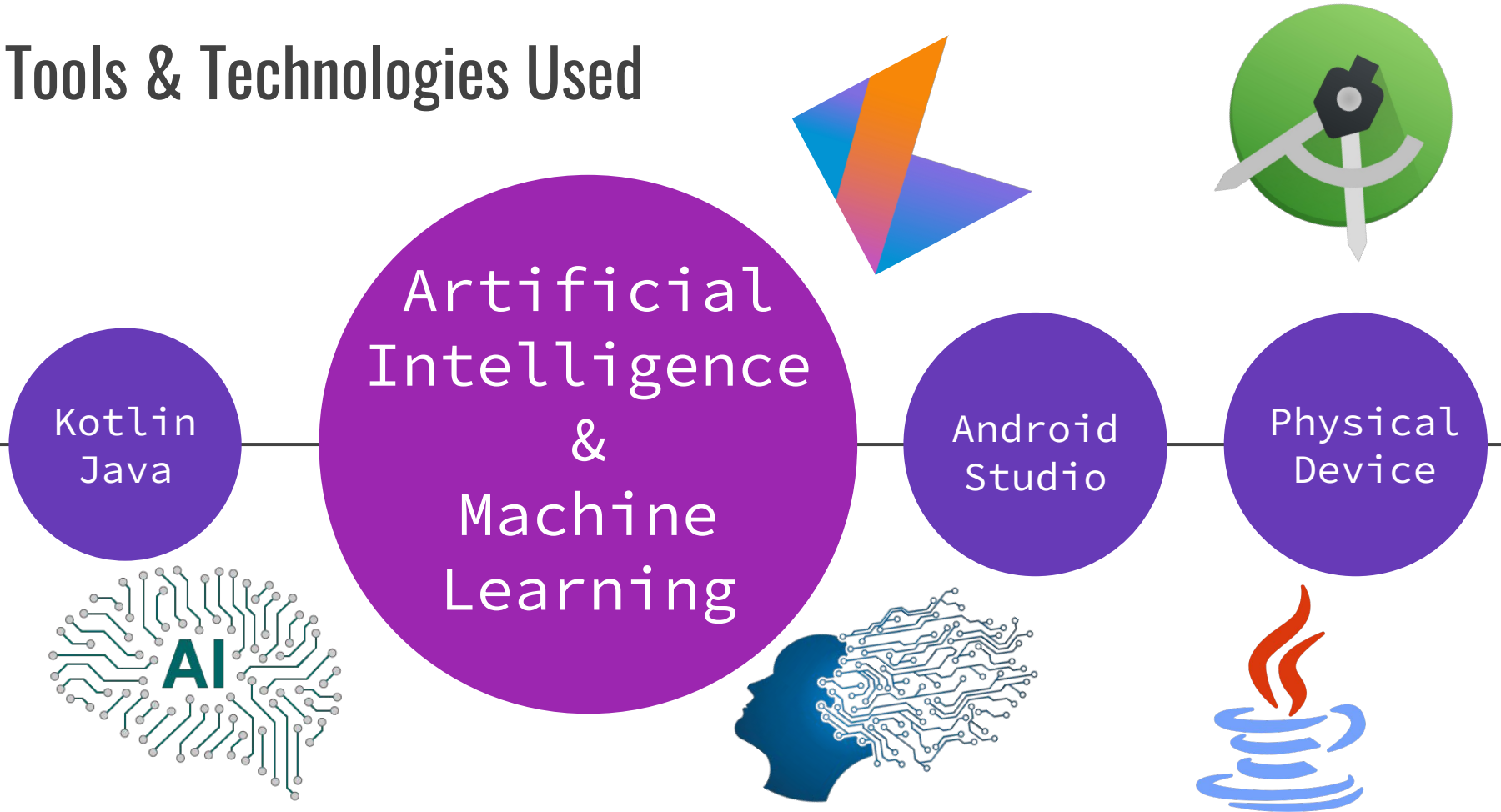# OCR - Optical character recognitionw

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Objective

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- To create an app which recognises texts from an image.
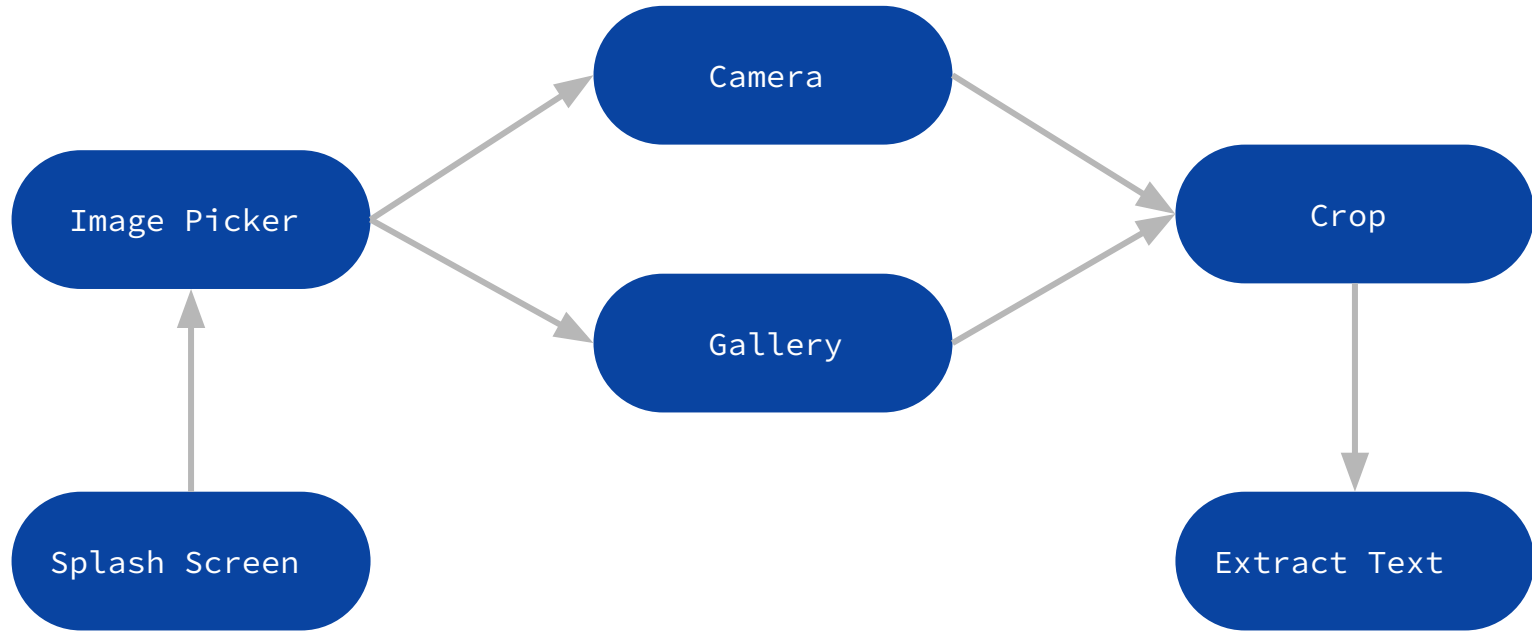
- Designing the UI with ease.

Tools & Technologies Used

Kotlin Java

Artificial Intelligence & Machine Learning

Android Studio
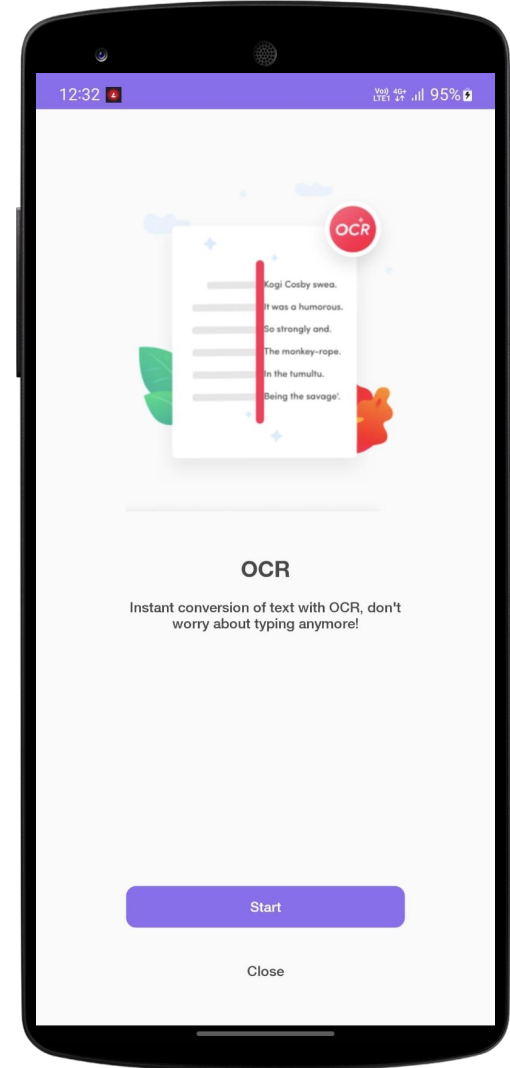
Physical Device

WorkFlow of the App

Work Samples of the App

Splash Screen

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A splash screen is a graphical control element consisting of a window containing an image , a logo and the current version of the software.

Also it is the time for loading the internal process of importing and exporting the packages into the application
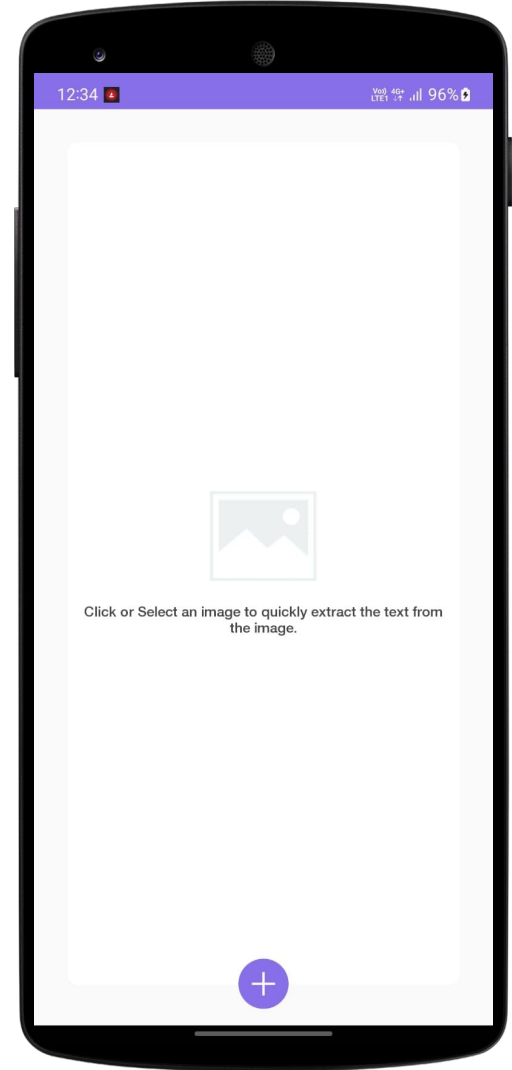
Home Screen

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Home screen or a start
screen is the main screen on
a device or computer
program.

And home screen often
differs from one to other
operating system as the
pixels and the size of
layouts differ

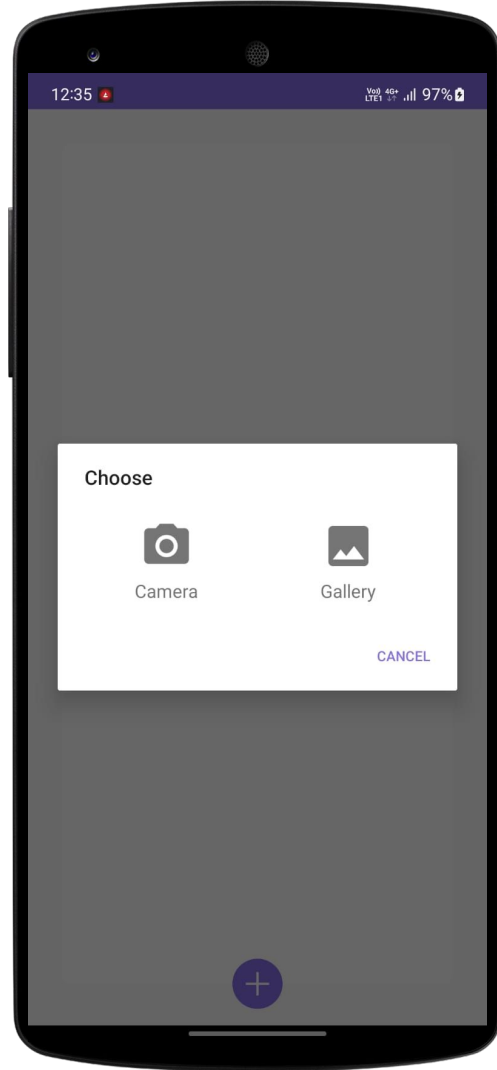Click or Select an image to quickly extract the text from the image.

Image Picker Screen

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The image picker screen
helps to get the images from
other applications like
gallery. It provides an
intuitive UI for sharing
photos with your app.

This tool provides a
safe,built-in-way for users
to select media files.

Permission Access Screen

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It is the permission for an
individual user or a
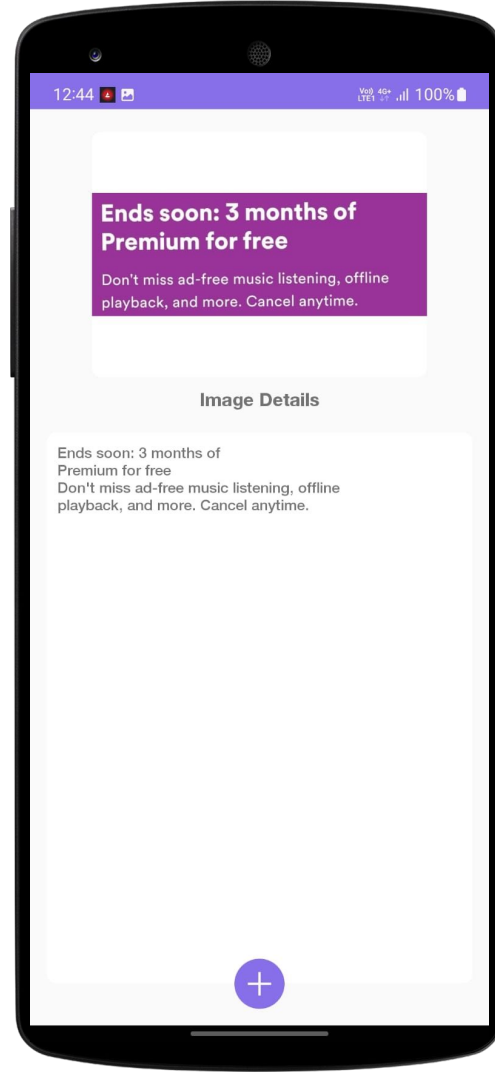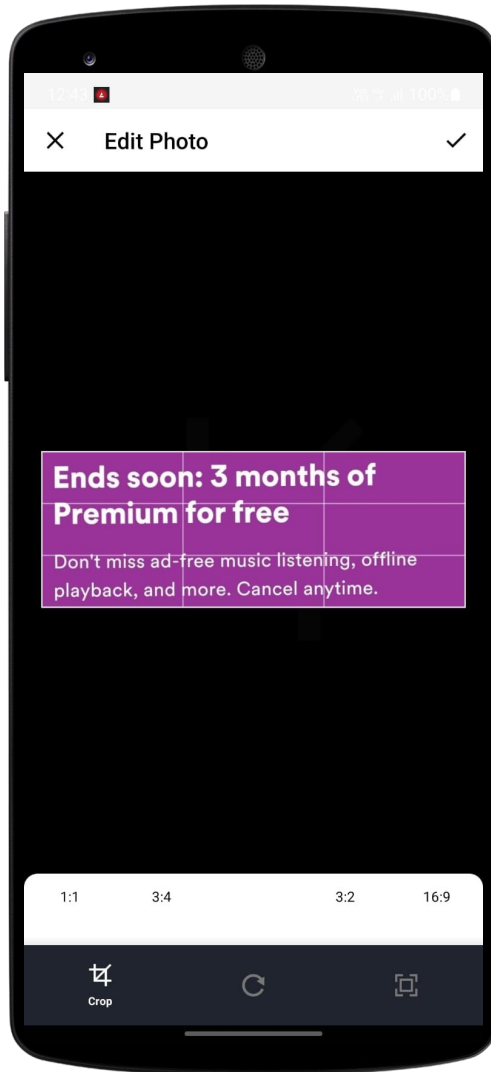computer application holds
to read the device files

It is a life access to the
media files when you click
the allow button as
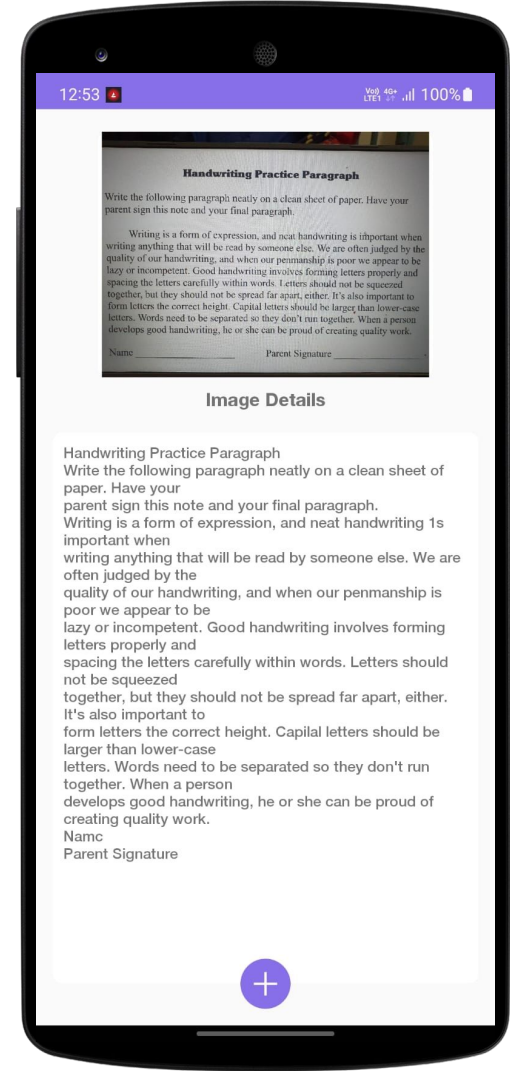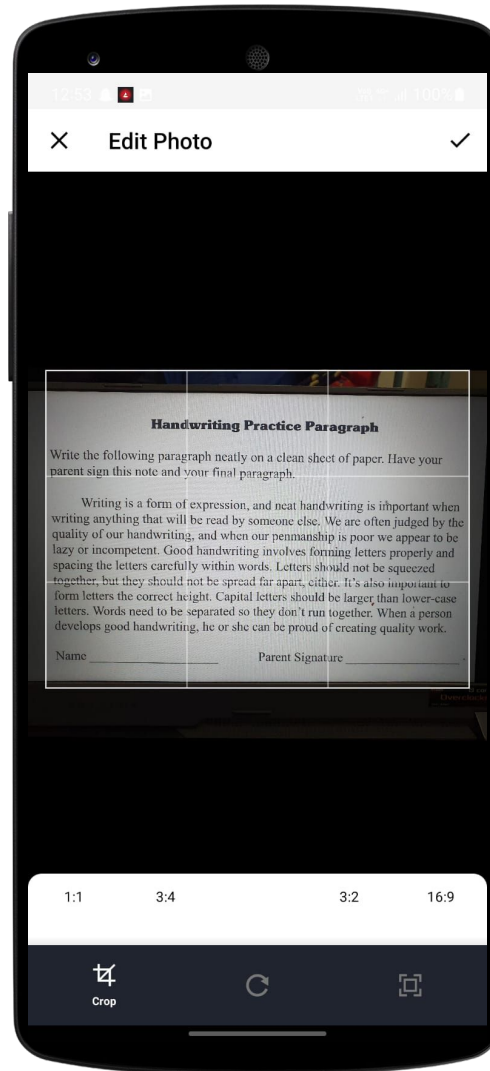displayed
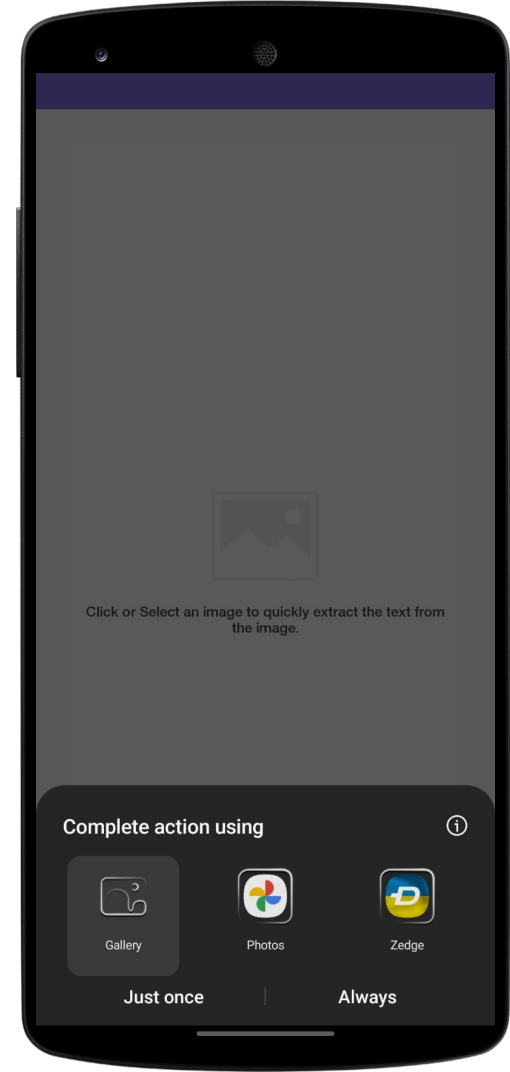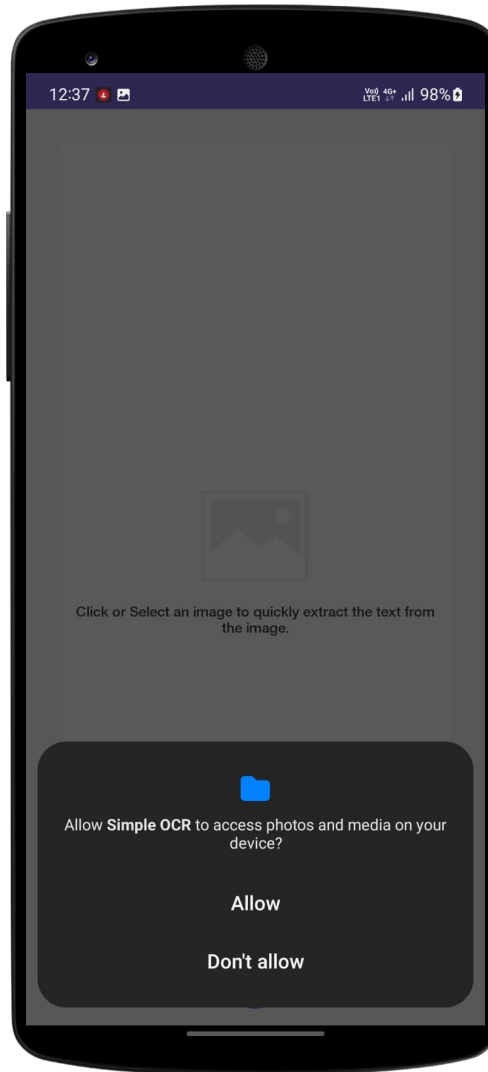
OCR from Gallery Screen

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Screen OCR is a screen capture and a character recognition tool. You can use Screen OCR in a such a way of cropping the required size of the image and get the text into the text column as shown.
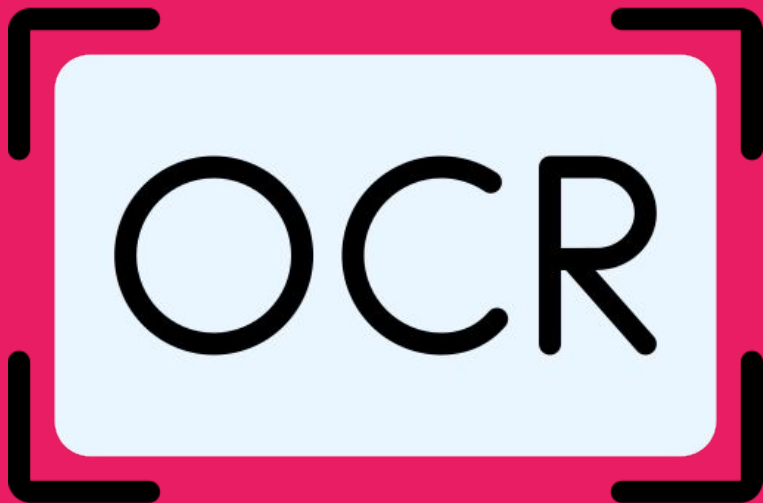
OCR from Camera Screen

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High Speed with High Quality Optical Character Recognition(OCR) camera. It use text recognition algorithm which is Optical character recognition specially made for converting the image into text.

Edit Photo

1:1   3:4   3:2   16:9

Crop

Handwriting Practice Paragraph

Write the following paragraph neatly on a clean sheet of paper. Have your parent sign this note and your final paragraph.

Writing is a form of expression, and neat handwriting is important when writing anything that will be read by someone else. We are often judged by the quality of our handwriting, and when our penmanship is poor we appear to be lazy or incompetent. Good handwriting involves forming letters properly and spacing the letters carefully within words. Letters should not be squeezed together, but they should not be spread far apart, either. It's also important to form letters the correct height. Capital letters should be larger than lower-case letters. Words need to be separated so they don't run together. When a person develops good handwriting, he or she can be proud of creating quality work.

Name _____   Parent Signature _____

Image Details

Handwriting Practice Paragraph
Write the following paragraph neatly on a clean sheet of paper. Have your
parent sign this note and your final paragraph.
Writing is a form of expression, and neat handwriting 1s important when
writing anything that will be read by someone else. We are often judged by the
quality of our handwriting, and when our penmanship is poor we appear to be
lazy or incompetent. Good handwriting involves forming letters properly and
spacing the letters carefully within words. Letters should not be squeezed
together, but they should not be spread far apart, either. It's also important to
form letters the correct height. Capital letters should be larger than lower-case
letters. Words need to be separated so they don't run together. When a person
develops good handwriting, he or she can be proud of creating quality work.
Namc
Parent Signature

References

Youtube
YouTube Playlist Link

W3Schools
https://www.w3schools.com/kotlin/index.php

Stack Overflow
https://stackoverflow.com/questions/tagged/kotlin