



# LIKHAVAT

[https://github.com/sanyakalra/Likhawat\\_v1](https://github.com/sanyakalra/Likhawat_v1)

**BY:-**

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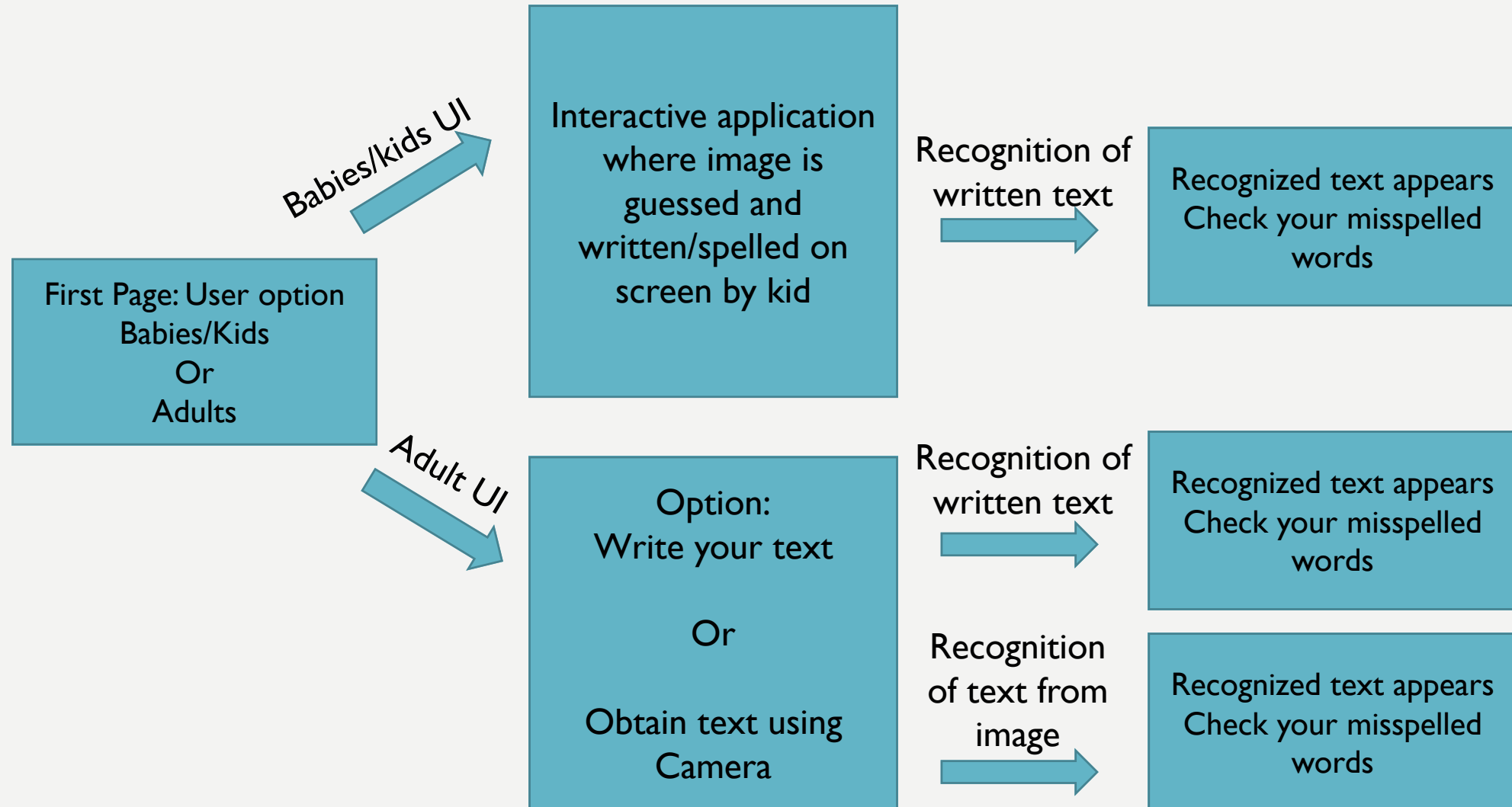
# PROJECT GOALS

**In a nutshell:** This Android Application is based on learning how to recognize letters/alphabets

## **Features:-**

- Incorporates feature of User option
- Incorporates feature of writing messages by hand rather than typing
- Incorporates feature of detection and recognition of letters/alphabets with camera (the camera feature has auto detection with and/or without flash)
- Converts handwritten text to digital form
- Helpful for improvisation of handwriting
- Helpful in correction of misspellings in handwritten texts

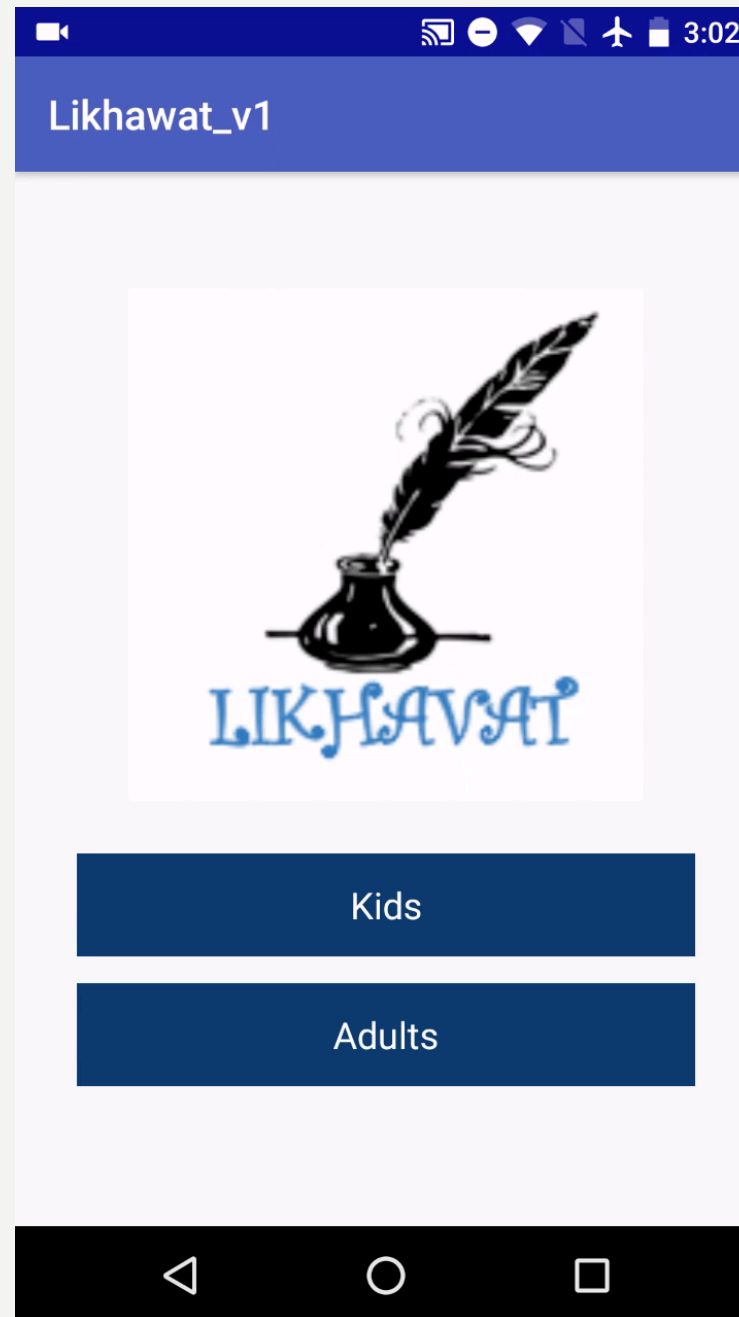
# SYSTEM DIAGRAM



# ACCOMPLISHMENTS

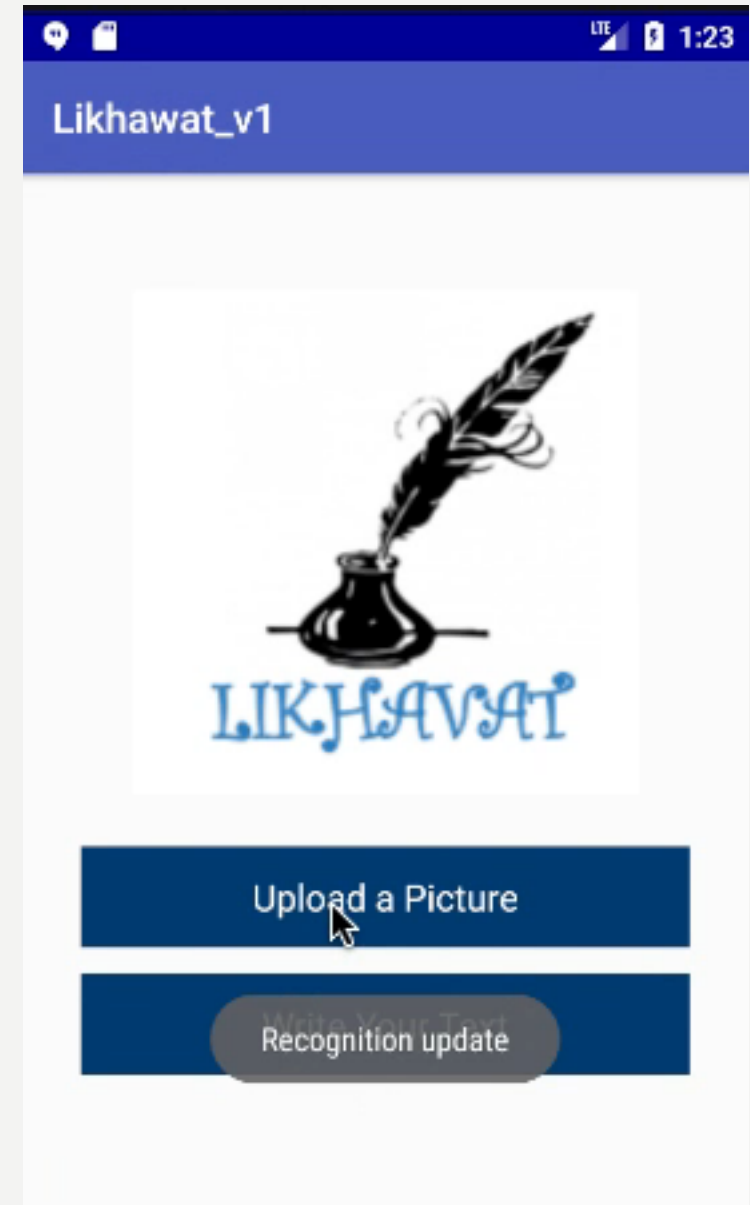
- Incorporated feature of User option : kids and adults
- New and Improvised UI
- Recognition of letters/alphabets in handwritten text (alphabets include both small and Capitals letters) using MyScript Library
- Recognition of letters/alphabets in handwritten text (alphabets include both small and Capitals letters) using Optical Character Recognition (OCR) with Android Mobile Vision Text API
- Conversion of text to digital form
- Interactive fun application for kids
- Able to read blocks, lines words with camera feature
- The API lets us recognize text in any Latin based language (English, French, German)

# DEMO



# CHALLENGES

- Integration of MyScript library into the application
- Detection of long length words
- Cursive writing detection
- Incorporation of Optical Character Recognition (OCR) into the application
- Reading a single word which is cursive correctly from image
- Application crashes when tried the Upload photo and crop photo option , handling issues with that
- Adding, incorporation and integration of all the different features into the final application





# THANK YOU

*ANY QUESTIONS?*