Walchand College of Engineering Sangli.

Department Of Information Technology

"PRINTED BOOK TO AUDIOBOOK CONVERTER FOR VISUALLY IMPAIRED "

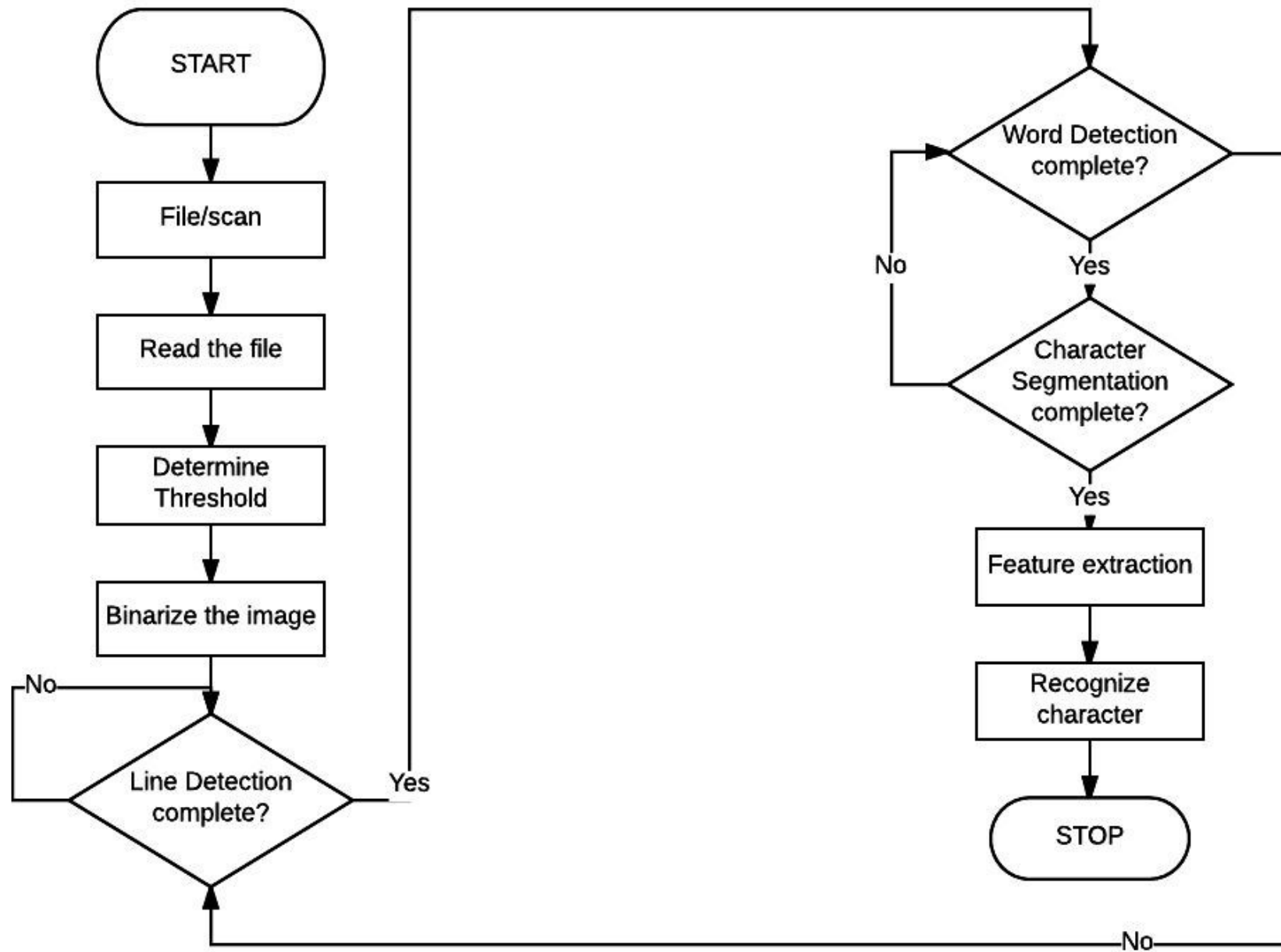Presented by :

1.Bele Ravishankar Pandit.   (2013BIT060)

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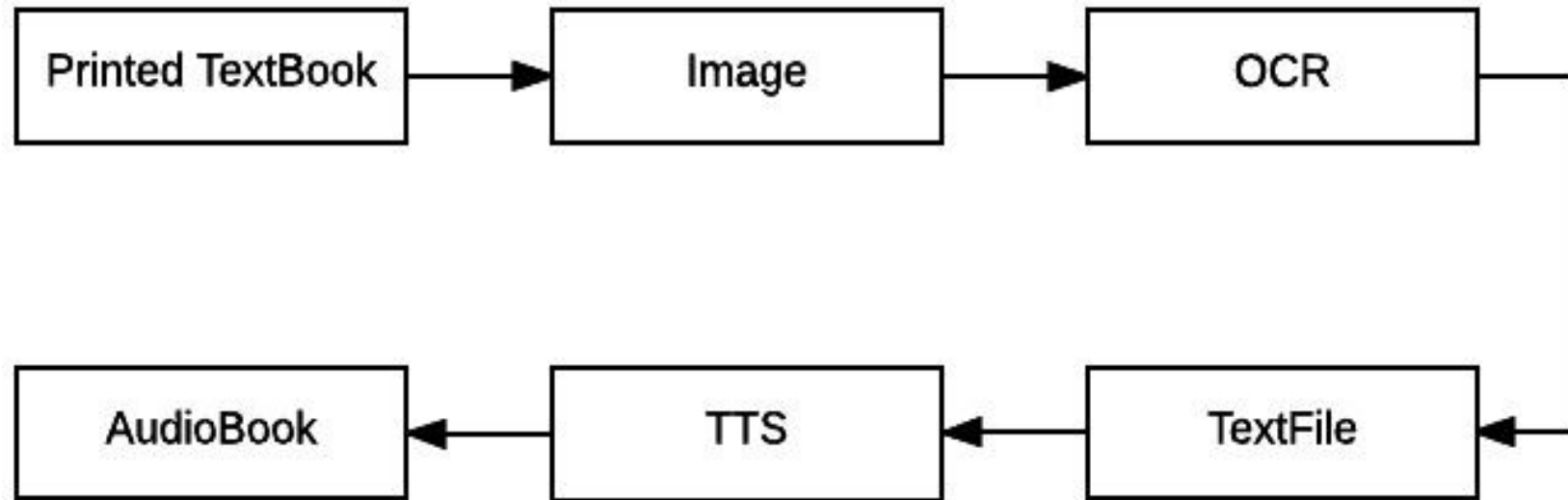
Under the guidance of :

Mr. M.B.Narnaware.

Objectives of the Project :

- To implement OCR(Optical Character Recognition)algorithm for English.
- To implement conversion of Text to Audio.
- To implement OCR algorithm for Braille language.

START

File/scan

Read the file

Determine Threshold

Binarize the image

Line Detection complete?

No

Yes

Word Detection complete?

No

Yes

Character Segmentation complete?

Yes

Feature extraction

Recognize character
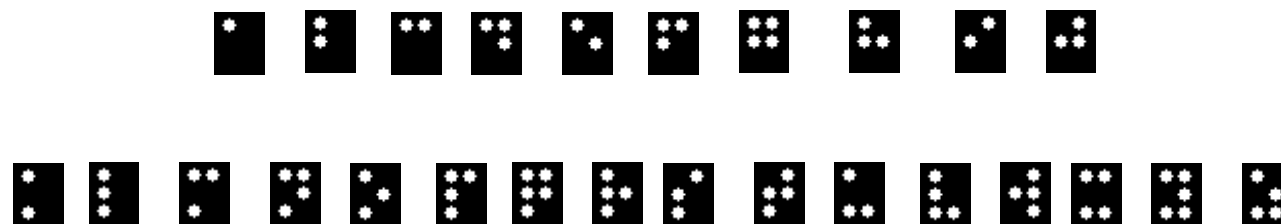
STOP

No

OCR Algorithm Flowchart

PROJECT'S FLOW STRUCTURE

Input Image

CELL   RECOGNITION

SPLITED CHARACTERS' IMAGES
(TEST DATA IMAGES)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

DATABASE

Database is a collection of interrelated data organized in specific forms in order to suit for specific applications.

DATABASE MANAGEMENT SYSTEM (DBMS)

DBMS is a collection of interrelated data and a set of programs that manage or control the use of data. It provides an interface between the database and its user.

RGB IMAGE

DATABASE

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WORD SEGMENTATION

DATABASE

DataBase is a collection of interrelated data organized in specific forms in order to suit for specific applications.

DATABASE MANAGEMENT SYSTEM (DBMS)

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CHARACTER SEGMENTATION

- **Tools:**
- Jupyter Notebook.
- OpenCV.
- Python3.
- TTS Engine.

THANK YOU