



# **Bengali Braille to Text Translator**

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# Project Overview

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# Bengali Braille to Text Translator

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- Desktop Application
- Translate Bengali Braille Code to Corresponding Text
- Input ➡ Scanned Image of Bengali Braille Document

# Braille code of the Bengali Text

“আমার সোনার বাংলা”

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আ ম আ র



আমার



স ও ন আ র



সোনার



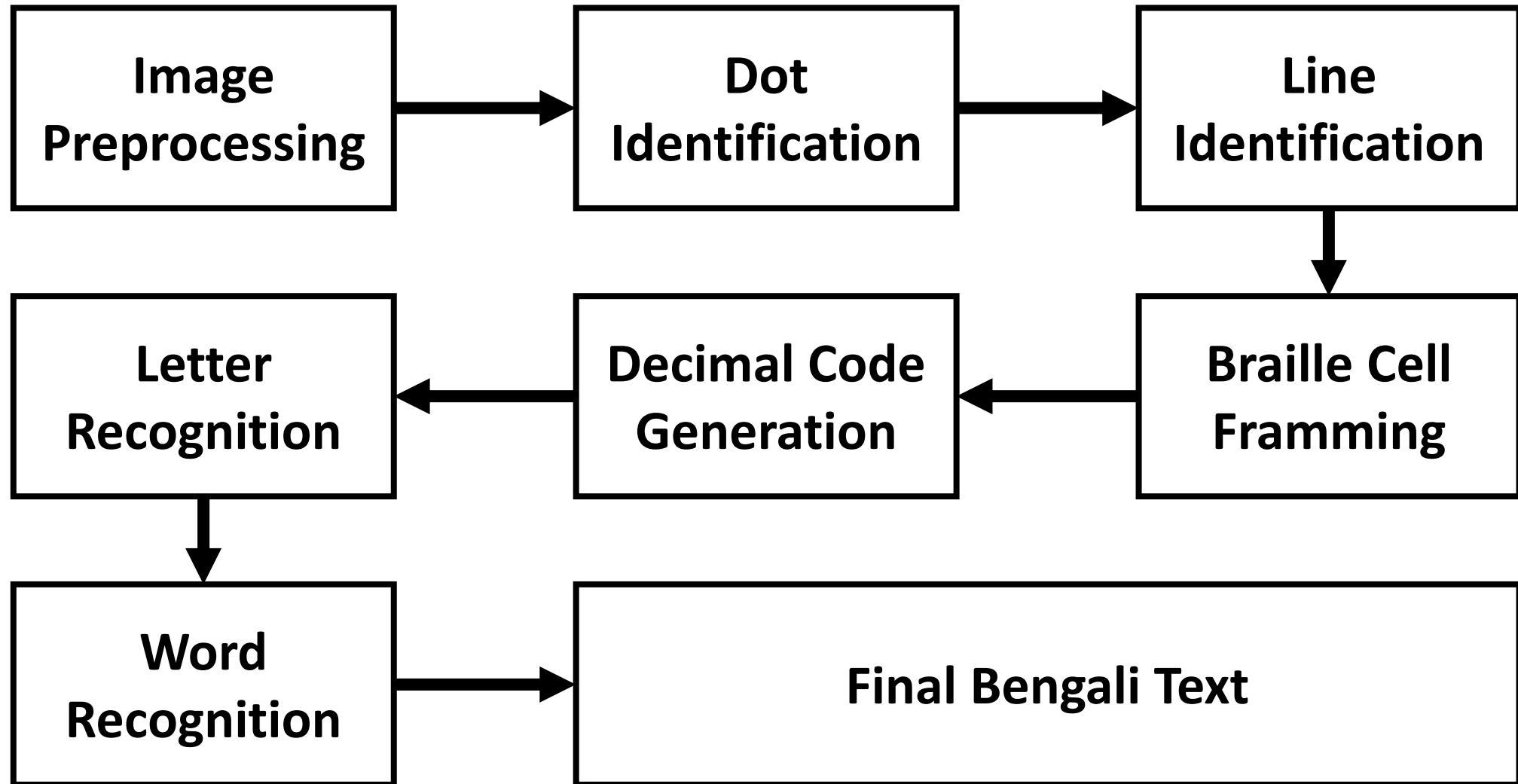
ব আ ং ল আ



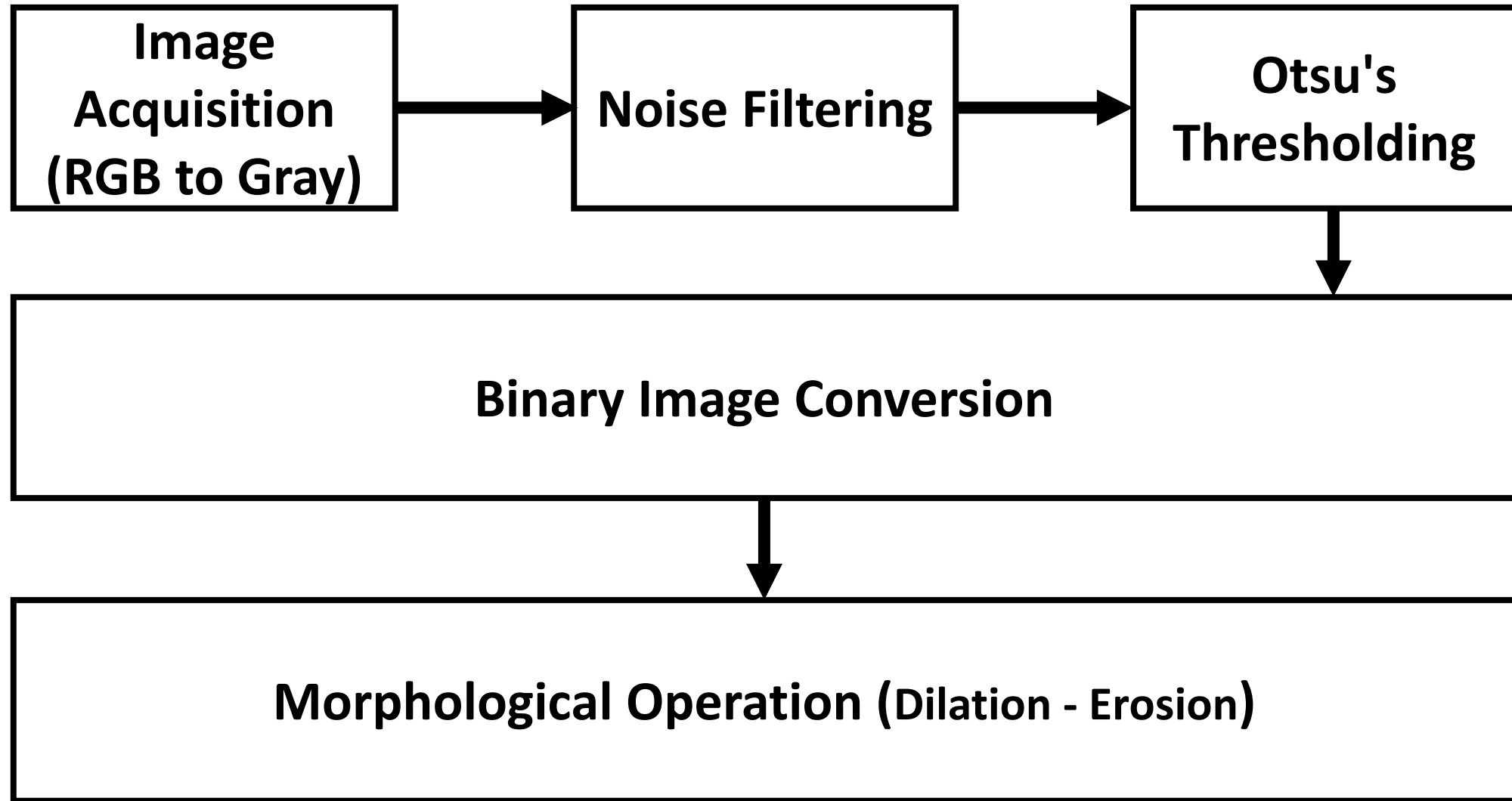
বাংলা

# Methodology

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# Image Preprocessing



## Example of Braille code and Bengali text

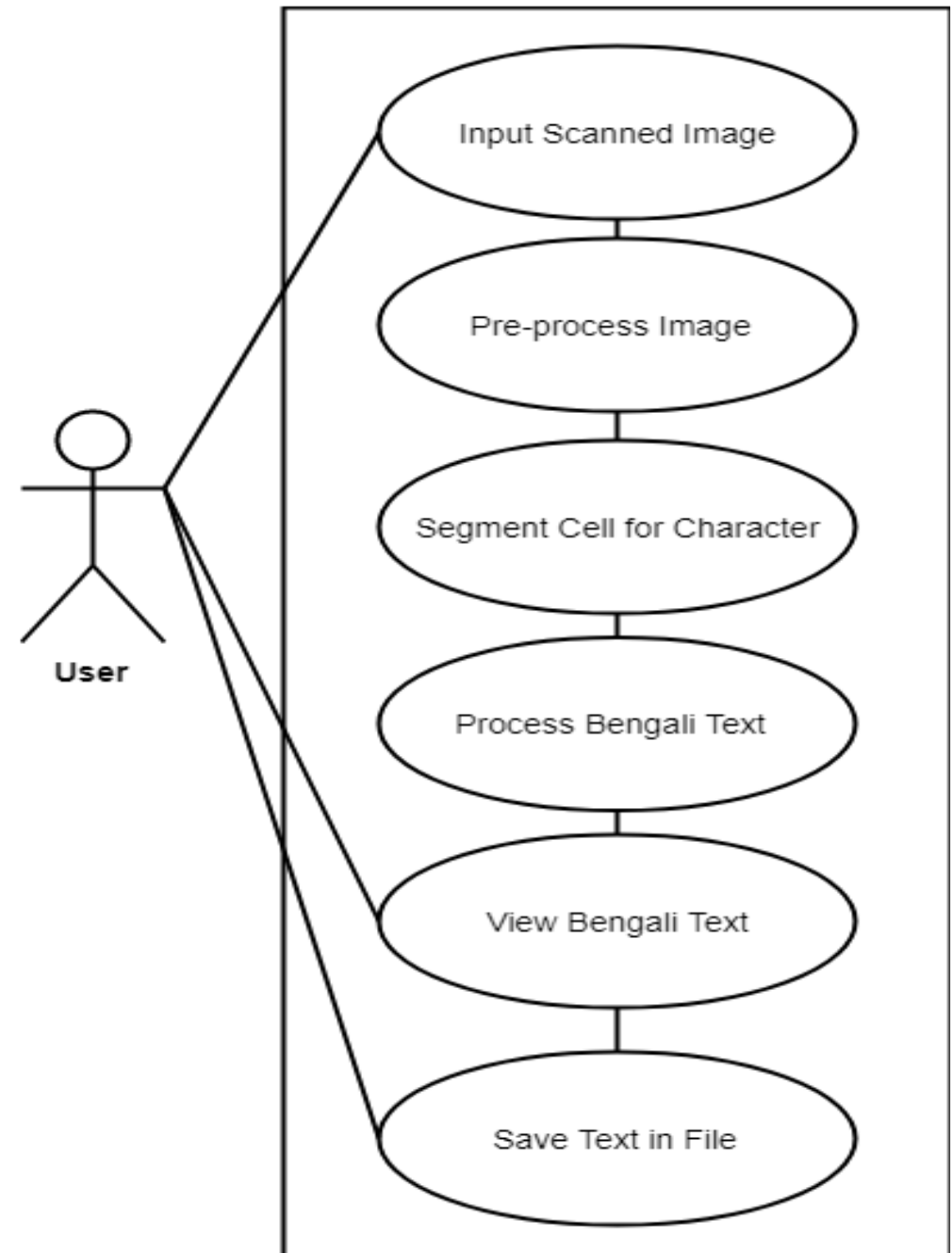
Bangla Word	Conjunct	Distribution	Braille Representation
কক্ষ	ক্ষ	ক ্ষ	
জান	জা	জ া এ	



Bangla Word	Conjunct	Distribution	Braille Representation
রাষ্ট্র	ঈ	ষ্ট্র	⠠⠠⠠⠠⠠⠠
স্বাতন্ত্র্য	ন্ত্র	ন্ত্র্য	⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠⠠

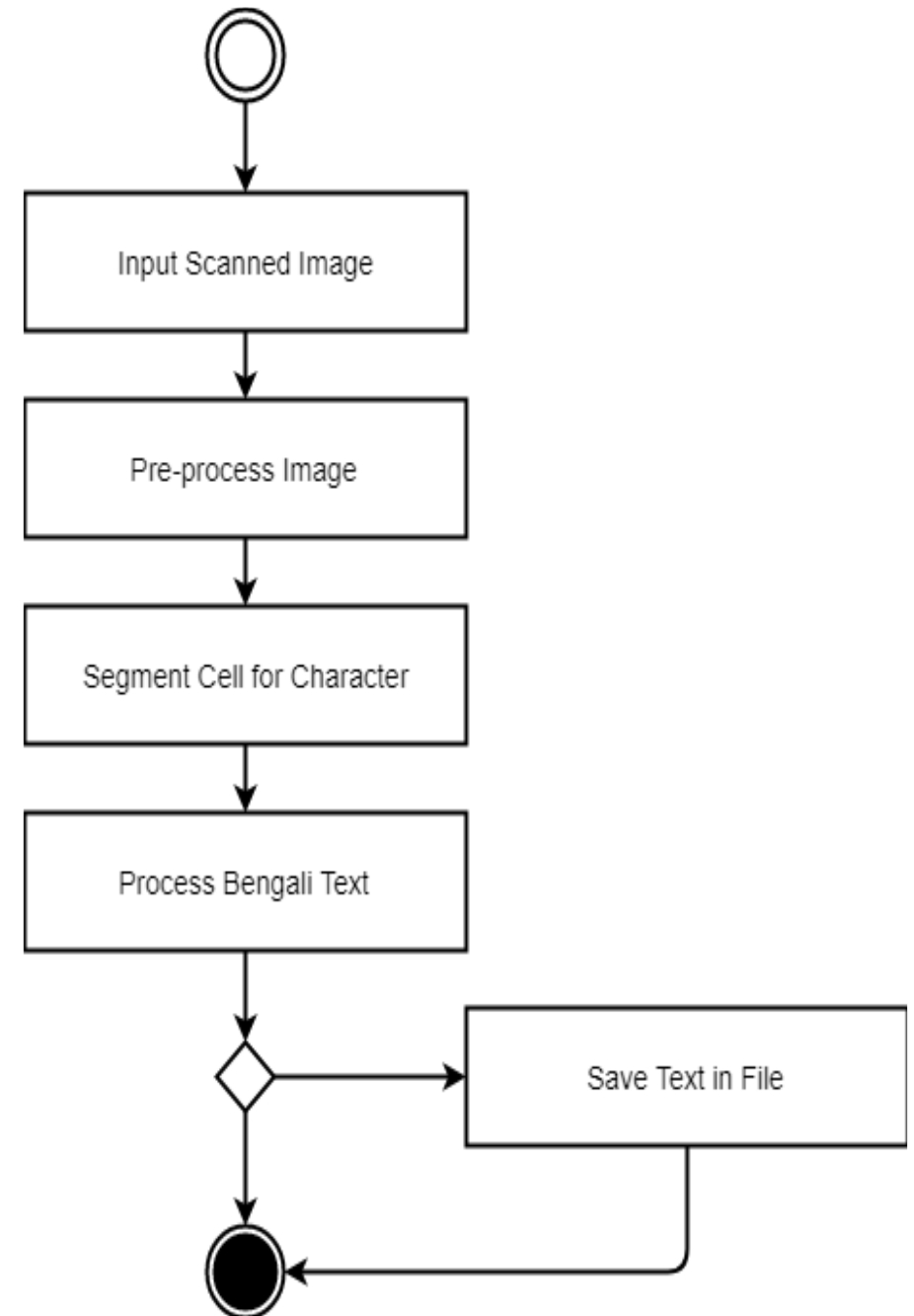
# Use Case Diagram 1.1

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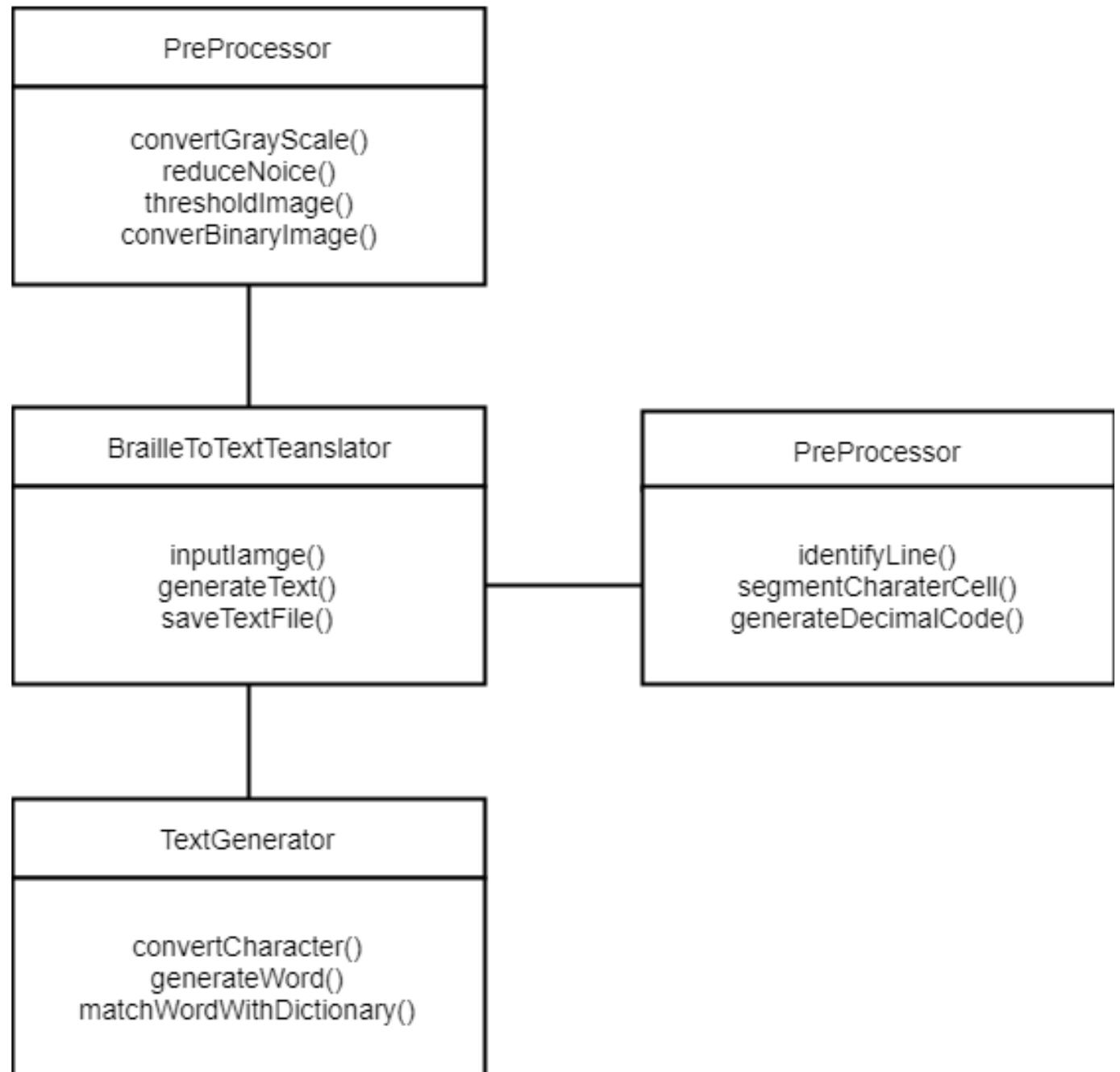


# Activity Diagram Level-1

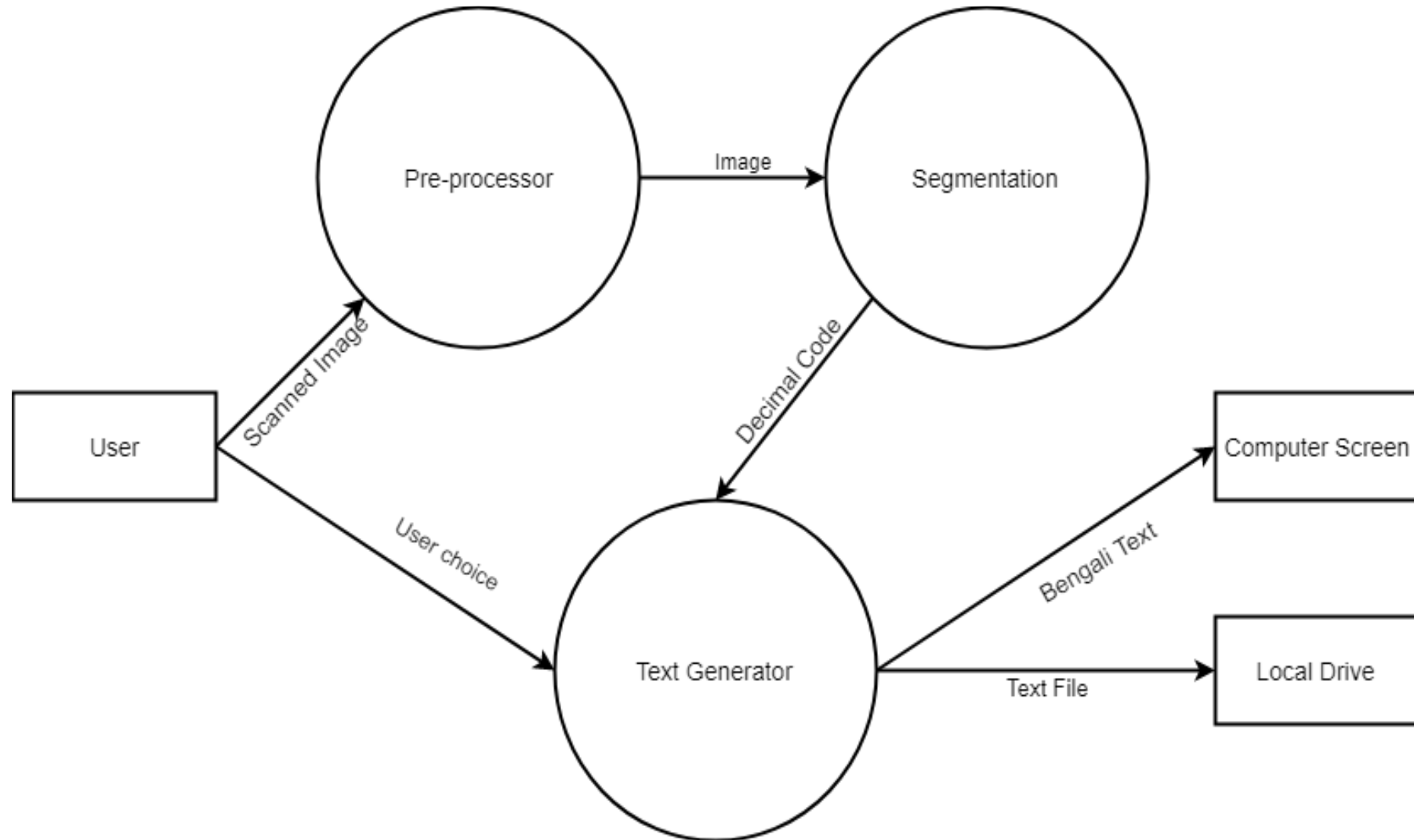
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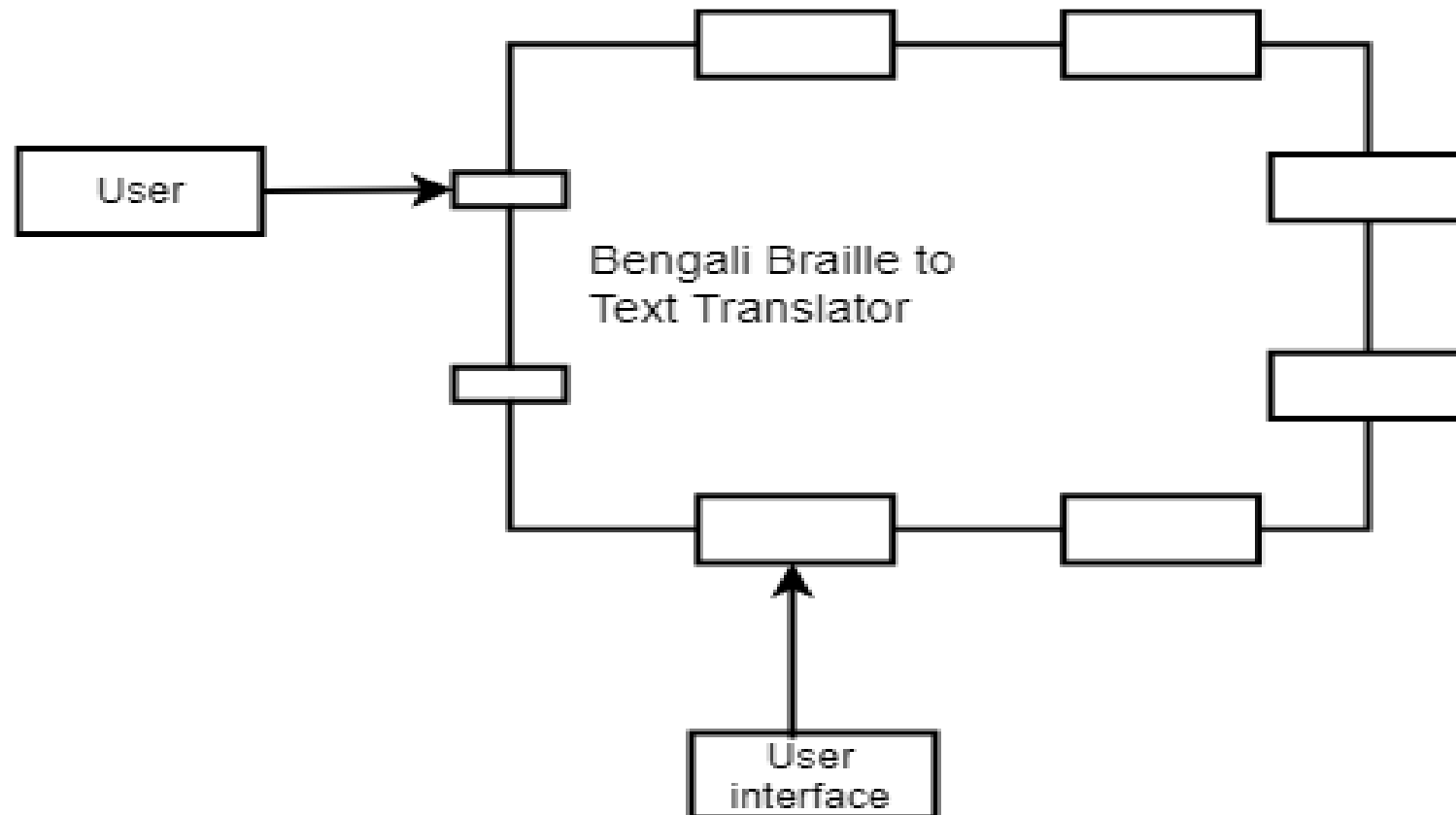
# Class Diagram



# Data Flow Diagram Level-1



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# Tools & Technologies

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# Backend

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# Frontend

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# Progress

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- Preprocessing
- Noise Reduction to Identify Dot

Q & A

Thank You