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Extraction of Important Information from Handwritten Articles

Shivam Purbia, Saurabh Kumar, Nikhil Suhalka, Ronak Vaishnav, Neeraj Sharma
UG Student, Department of Computer Science & Engineering, Geetanjali Institute of Technical Studies, Udaipur, Rajasthan ;313001, India.

Abstract: The main objective of is to allowing user to upload an image of a article (set of lines) and storing the user's file to AWS database. And allowing user to download the summary and detected text from the article in .txt and .MP3 format. So that they can have a short file to listen rather to read the whole page and to get the useful information contained in the article downloadable in .txt file.

I. INTRODUCTION

Many recognition system have been development for languages based on various scripts and digits all over the world, taking input in either of online and offline modes, with considerable efficiencies. These system have proved to be highly applicable in the fields of Banking, Education, IT systems and Postal Sector for digitization of processes and automated information retrieval. And the system aim to recognition text and bring it to editable form from the given document image, where the input text can be machine printed, hand written of hand printed form.

II. METHODOLOGY

Firstly we are using the Streamlit interactive widgets to take the input from user as the name and then the file to be uploaded. Converting the file-like obj. To bytes to make a request to Amazon recognition API and parsing the json (response), making the summary from the text. Using NLP and spacy extracting the information. Using text-to-speech API allowing the user to play the text as audio in the the app itself. Displaying a link to download the results.

A. Problem Statement

Recognition of handwritten and computer generated text from an image (jpg, png) file, and extraction of useful information from the article and a short summary of what the article is all about.

B. Need of the Project

Optical character recognition is science that enables to translate various type of documents or image into analyzable, editable and searchable data.

III. REQUIREMENT ANALYSIS

Requirement analysis result in the specification of software's operational characteristics indicates software's interface with other system elements and establish constraints that software must meets. Requirement analysis allows the software engineer (sometime called analyst or Modeler in this role) to elaborate on basis requirements during earlier requirement engineering task and build models that depict.

IV. PROCESS MODEL

A. Descriptive

Take the point of view of an external observer who looks at the way process has been performed and determines the improvements that must be made to make it perform more effectively or efficiently.

B. Prescriptive

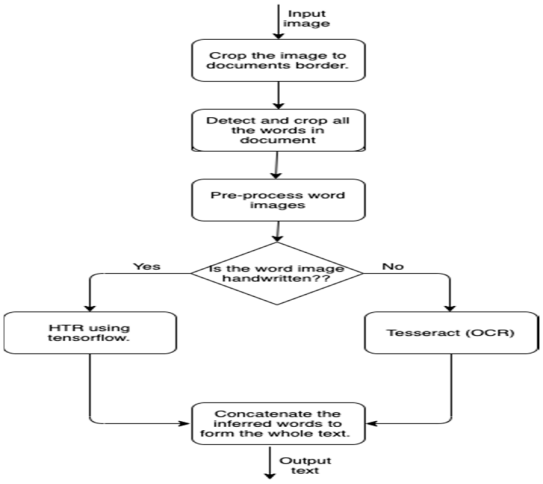
Establish rules, guidelines, and behavior patterns which, if followed, would lead to the desired process performance.

C. Explanatory

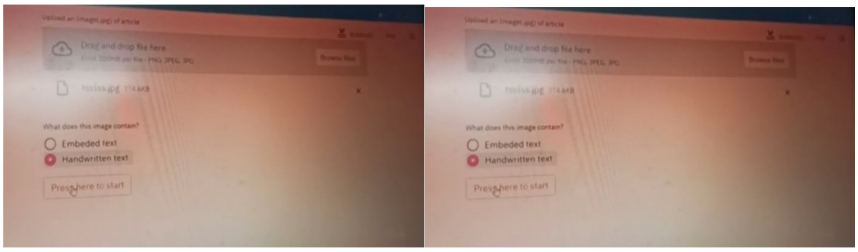
Provide explanation about the rationale of processes.

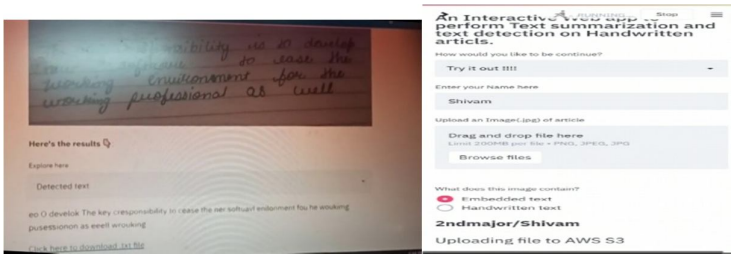
V. PROJECT DESIGN

A. Use Case Diagram



VI. RESULT





VII. CONCLUSION

It is an AWS EC2 for deployment of our app and for converting the web app into an android application. And starting the screen session and hosting the app in the session and then detaching the session to keep the app running even after logging out of the AWS EC2 Linux cli. And conversion of the web app to an android app using Gonative services for free.

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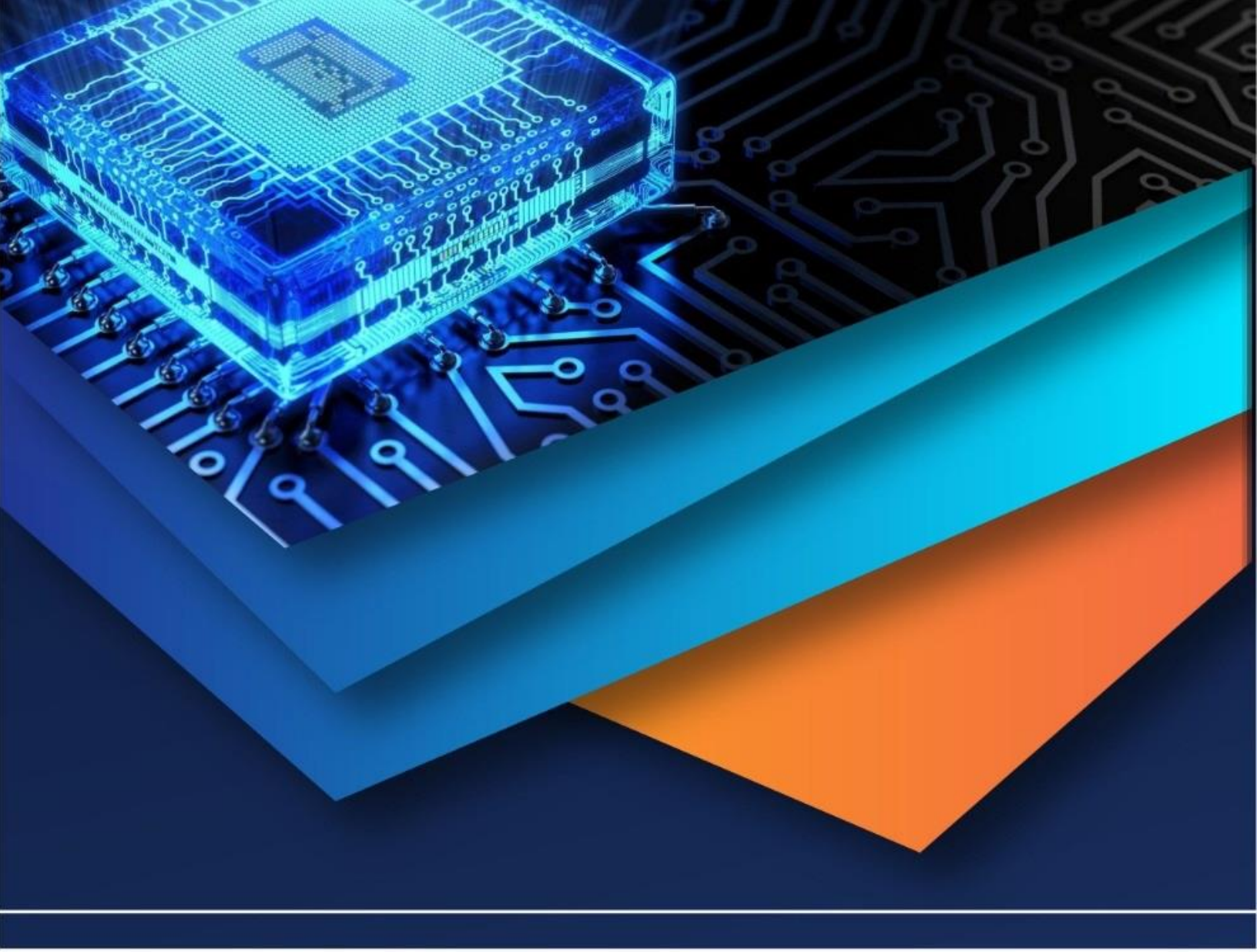

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