Smart ID Scanner

(Python Track)

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Problem Description:

Came across a banner or any picture with text or a visiting card? Would you like to store the information in that image as text for future use? It is possible by extracting the text from the image. This application helps you do that. Browse the image and get the text extracted.

Introduction:

- To develop an end-to-end application where users can register and login to their respective accounts.
- Once logged in, the user should be able to upload an image for text extraction. Then the API sends the image for processing.
- Such images may contain important textual data that the user may need to edit or store digitally. This can be done using **Optical Character Recognition** with the help of **Tesseract OCR Engine**. OCR is a branch of artificial intelligence that is used in applications to recognize text from scanned documents or images.
- Users get the extracted text from the image.

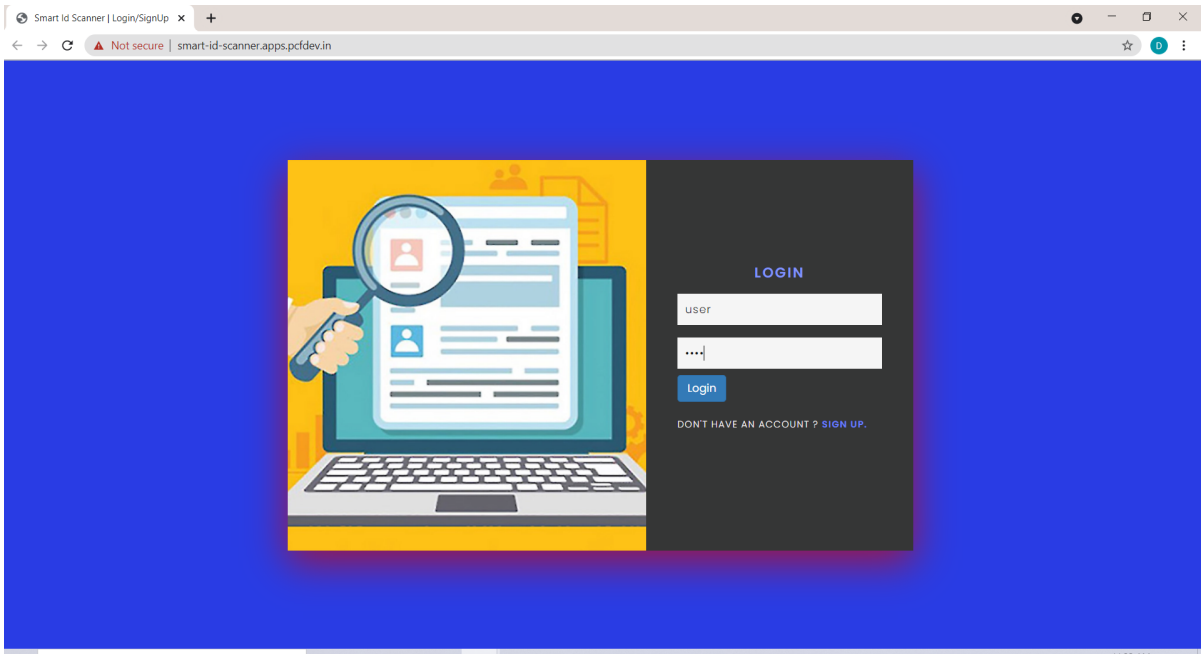
Skills Required:

- HTML
- Bootstrap
- MySQL
- Python-Flask
- Cloud Foundry
- Tanzu Application Service
- REST API's

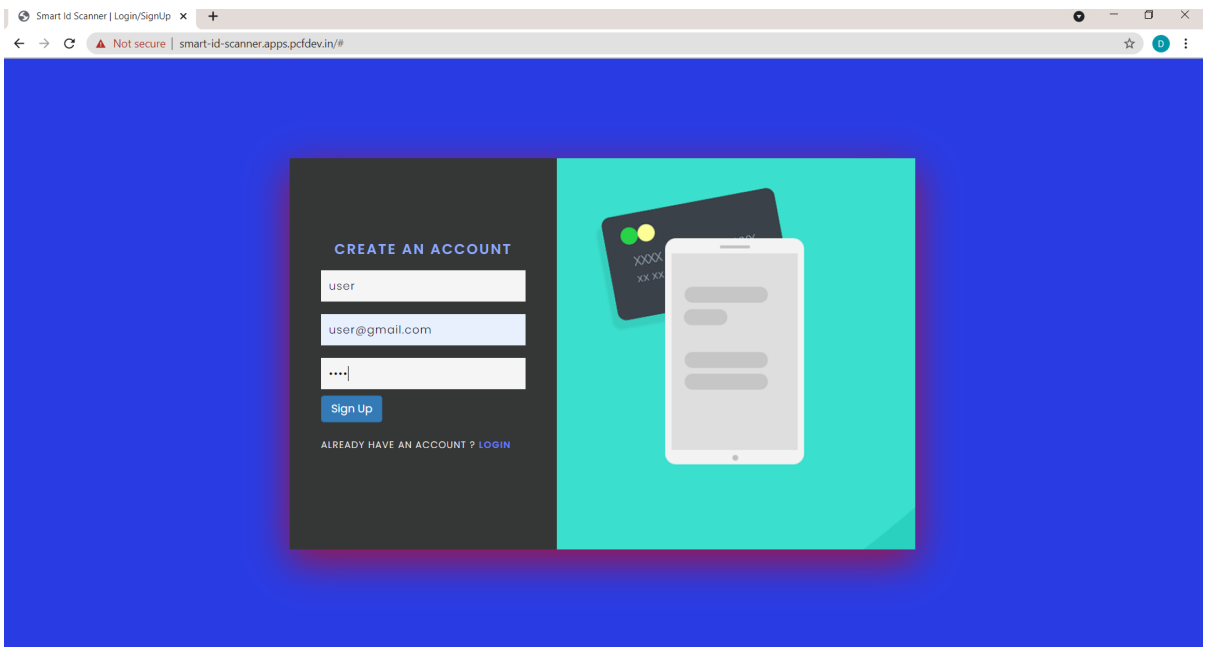
Project Link: (Source code)

- **Smart-ID-Scanner Project**
- **http://smart-id-scanner.apps.pcfdev.in/**

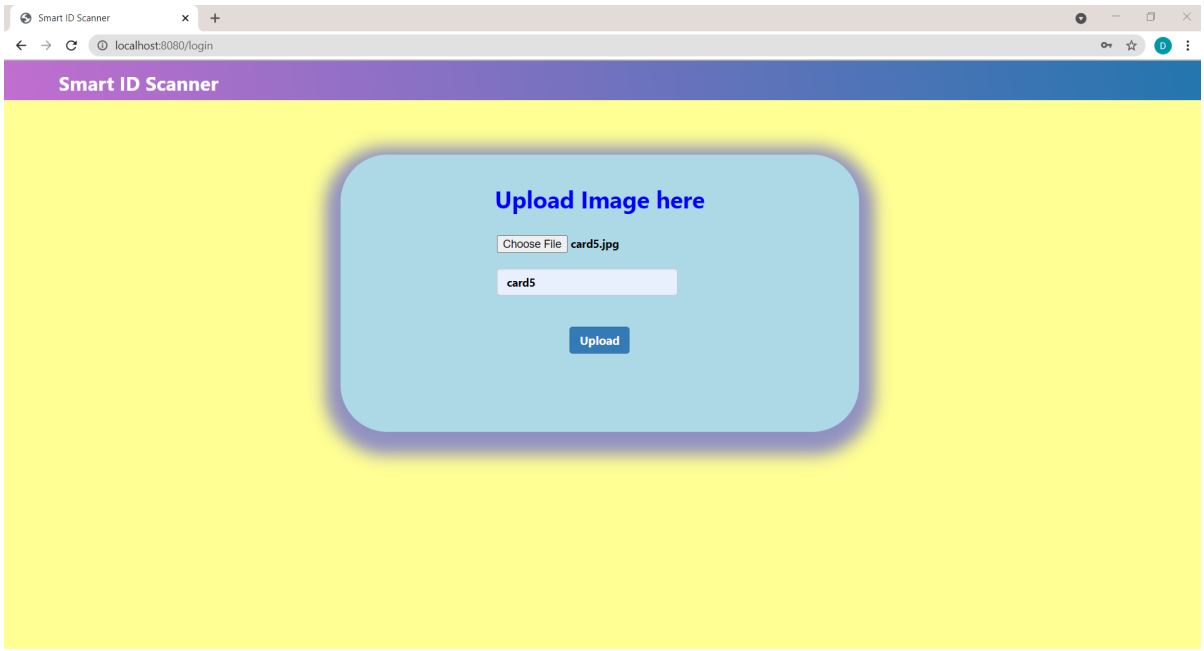
Output:



Login page

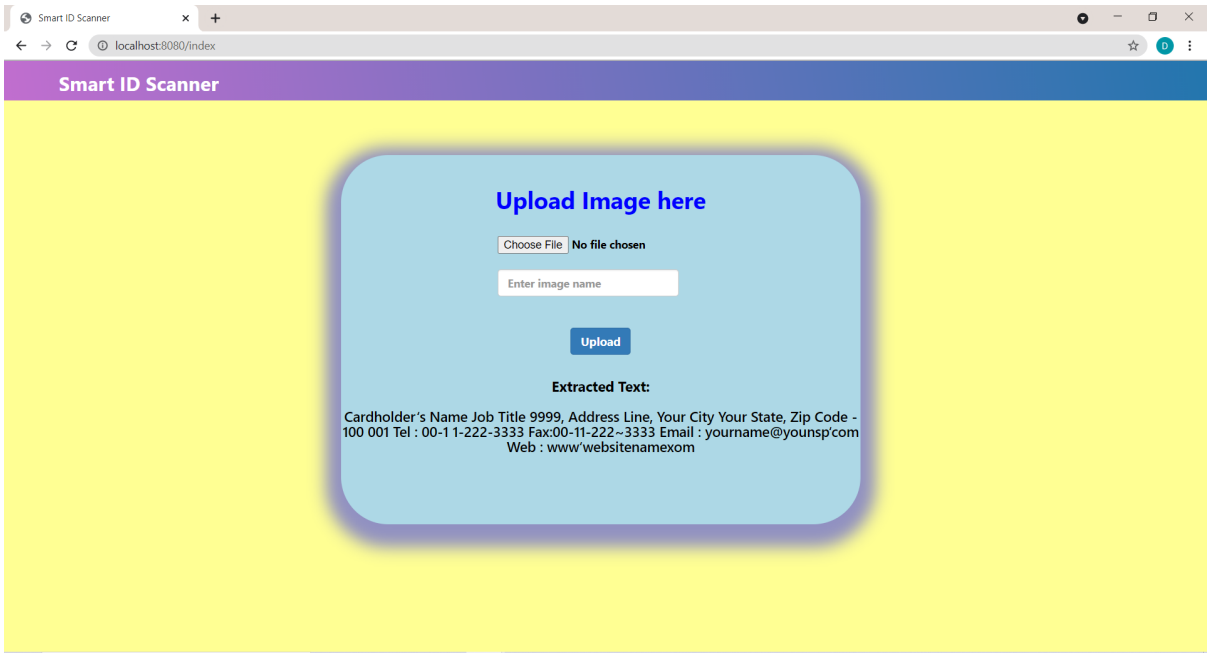


Signup page



Home Page

Uploaded image



Extracted Text

Conclusion:

- In the current world, there is a great increase in the utilization of digital technology and various methods are available for the people to capture images.
- This system can be used for character recognition from scanned documents so that data can be digitalized. Also, the data can be converted to audio form so as to help visually impaired people obtain the data easily.

References:

- https://github.com/smartbridgesip/VMware-Tanzu-Build-aThon-Pythontrack
- https://stackabuse.com/pytesseract-simple-python-optical-character-recognition
- https://stackoverflow.com/
- https://cloud.google.com/vision/docs/ocr