Aadhaar OCR System

Project Description:

Build a MERN stack web application to perform OCR (Optical Character Recognition) on Aadhaar cards. The application will allow users to upload images of the front and back of an Aadhaar card, process these images through an API, and display the extracted information on the frontend.

Frontend:

Create a frontend application using ReactJS with the following functionalities:

- A landing page with a user-friendly interface to upload two images: one for the front side and one for the back side of the Aadhaar card. (Reference (a))
- Display the uploaded images on the same page after a successful upload.
- A button or action to trigger the OCR process on the uploaded images.
- Display the extracted Aadhaar card information in a clean and organised format. (Reference (b))

Database:

You may not need a database for this project since you can process images and send the results directly to the front end. However, you can choose to store the OCR results in a database for further analysis or auditing if desired.

Technical Requirements:

- Use React for building the frontend.
- Utilise Express.js to setup the backend server.
- Employ a suitable library or tool for image processing and OCR.
- Ensure that the application is user-friendly, responsive, and provides clear feedback on the OCR process.

Additional Considerations:

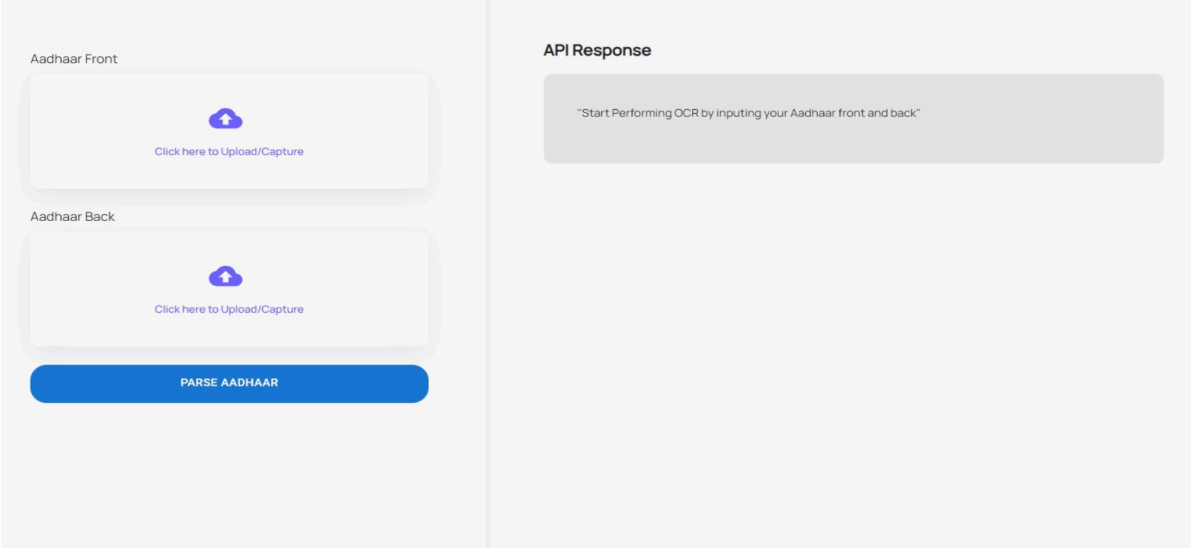
- Implement error handling and validation for image uploads and API calls.
- Secure the application by sanitising user inputs and validating file types.
- Deploy the MERN stack application on a platform of your choice for testing and demonstration.

Submission:

- Documentation: Include README.md files for each repository detailing the setup, deployment, and testing procedures.
- Deadline: Submit the GitHub repository link, Hosted live link and screen recording within 96 hours.

References:

(a)



(b)