**Image Entities Extraction with Flask**

**Overview**

This project is a Flask web application that allows users to upload multiple images from a folder, extract specific entities using Optical Character Recognition (OCR), and display the results in a table format. Users can also download the extracted data in JSON format.

**Features**

* Upload multiple images for processing.
* Extract entities such as Booth Number, Name, Age, and Gender from the images.
* Display extracted data in a user-friendly table.
* Download the extracted data as a JSON file.
* Loader to indicate processing status.

**Requirements**

* Python 3.x
* Flask
* Tesseract OCR
* Pillow
* pytesseract

**Installation**

1. **Clone the repository:**

bash

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git clone <repository-url>

cd <repository-folder>

1. **Create a virtual environment (optional but recommended):**

bash

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python -m venv venv

source venv/bin/activate # On Windows use `venv\Scripts\activate`

1. **Install the required packages:**

bash

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pip install Flask pytesseract Pillow

1. **Install Tesseract OCR:**
   * Download and install Tesseract OCR from [Tesseract OCR](https://github.com/tesseract-ocr/tesseract).
   * Make sure to add the Tesseract executable path to your system's environment variables.
2. **Create an uploads folder:** Create a folder named uploads in the same directory as app.py to store uploaded images.

**Usage**

1. **Run the application:**

bash

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python app.py

1. **Access the application:** Open your web browser and go to http://127.0.0.1:5000/.
2. **Upload Images:**
   * Select multiple images from your folder and click the submit button to extract entities.
3. **Download Output:**
   * Click the download button to get the extracted data in JSON format.

**Customization**

* Modify the extract\_entities function in app.py to customize the entity extraction logic based on your specific needs.
* Adjust regex patterns according to the format of the text you expect from the images.