

## OCR App Documentation

The OCR App is a web application that allows users to draw or upload an image and extract text from it using Optical Character Recognition (OCR) technology. It is built using React.js and Axios library for making API requests.

### Installation

To run the OCR App locally, follow these steps:

Clone the repository or download the source code.

Navigate to the project directory.

Install the project dependencies by running the following command:

```
``npm install``
```

Start the development server with the following command:

```
``npm start``
```

This will run the app in development mode and open it in your default browser at

<http://localhost:3000>.

### Usage

The OCR App provides a user-friendly interface for drawing on the canvas or uploading an image file and extracting text from it.

Drawing on the Canvas:

- Use your mouse to draw on the canvas area.
- The drawn image will be displayed in real-time on the canvas.
- Click the "Clear Canvas" button to clear the canvas and start drawing afresh.

Uploading an Image:

- Click the "Choose File" button to select an image file (supported file types: JPEG, PNG, BMP, PDF, TIFF).
- The selected image will be displayed on the canvas.
- Click the "Clear Canvas" button to clear the canvas and upload a new image.

Extracting Text:

- After drawing or uploading an image, click the "Extract Text" button to initiate the OCR process.
- The image will be sent to the OCR API endpoint along with the provided API key.
- The extracted text will be displayed in the output area below the canvas.

### Components

The OCR App consists of the following main components:

App: The main component that renders the entire application. It handles the canvas drawing, file upload, and API request for text extraction.

Canvas: A reusable component that provides the canvas functionality for drawing.

## Dependencies

The OCR App utilizes the following main dependencies:

React: JavaScript library for building user interfaces.

Axios: Promise-based HTTP client for making API requests.

HTML5 Canvas: Web API for drawing graphics and images.

## Configuration

To configure the OCR App, you need to provide your OCR API endpoint URL and subscription key. Modify the following variables in the code:

**apiUrl**: Replace with your OCR API endpoint URL.

**apiKey**: Replace with your OCR API subscription key.

## Conclusion

The OCR App is a simple yet powerful tool for extracting text from drawings or images. It leverages the capabilities of OCR technology to provide accurate and efficient text extraction.

The user-friendly interface allows users to interact with the app easily and obtain the extracted text with just a few clicks.

Feel free to explore and enhance the OCR App based on your requirements.