Receipt parser server

Monolidth

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Receipt manager app is a minimalistic application to mange receipts.

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GET STARTED

At the moment, there are precompiled releases available on our Github release page or in the FDROID repository.

After, the installation you can add, insert and manage receipts. However, a small configuration is required for OCR.

1.1 OCR support

Before you can use OCR to extract the key information out of your receipt a receipt server **is required.** For more information, please read the receipt parser server documentation.

After, executing the receipt parser server. The *API-TOKEN* is shown on the server console. The receipt server IP is the IP of your server, the receipt parser server is executed on.

Now, you have to specify following information:

- 1. Server Address
- 2. API token

For that go to:

- SettingsWidget/API token and specify the API token.
- SettingsWidget/Server and specify the receipt parser server domain or IP address.

For more information, please read the settings documentation.

TWO

COMMON SETTINGS

2.1 Language

You can select between the German and English language.

2.2 API token

The API token is shown on the server console. You can scan the QR code printed on the server console or type the API token manually. To apply the API token, press the button with the arrow icons.

Tip: If you don't want to use an API token, you could leave this field empty.

THREE

NETWORK SETTINGS

3.1 Detect receipt server

This feature allows finding the receipt parser server. To identify the receipt parser server, the zeroconf protocol is used. This feature works only if both (client and server) are connected to the same network and are in the same subnet. If the receipt parser server appears, you can press on icon in order to automatically set the receipt parser server IP.

3.2 Specify server IP

You can specify the receipt parser server IP using the server Widget. You could use both domain or IP address.

The client performs a connection test if the server address is applied. If the connection test fails, the address is not applied and appear to be the address specified before or not set.

Valid IPs are e. g. 192.168.0.101 Valid domain: receipt-parser.xyz

Tip: If you use a domain name, please don't specify the protocol.

3.3 Enable HTTPS

By default, HTTPS is enabled but you could also disable HTTPS if you want to.

Please note that this is not recommended but might be useful for testing.

FOUR

CAMERA SETTINGS

To improve the quality of the image and the receipt parser output you can set various parameters depending on your conditions.

4.1 Rotate image

The client does not detect the rotation of the image by default. By default, the image is taken horizontally and no rotation is required. If you want to take an image vertically, enable rotation. This allows rotating the image by 90 degrees.

Rotating detection is planned for the future.

4.2 Grayscale image

This option is recommended to be set. Grayscaled images are easier to parse. However, if you have a bad lighting conditions, you could disable this feature.

4.3 Gaussian blur

Enable if the image has a lot of noise.

4.4 Neuronal network parser

The neuronal network parser is more flexible, since it does not require a fixed rule set. Therefore, is more suitable for bigger projects. However, the neuronal network parser is not implemented in the receipt parser server at the moment.

At the moment the receipt legacy parser is always used since the trained German, English and French receipt dataset was to small.

4.5 Legacy receipt parser

The receipt legacy parser uses a fixed rule set. You can define your store names in the receipt parser configuration file.

If the store name is not present in the configuration file, the receipt parser could not determine the store name, thus the receipt data and total (if present).

4.6 Send training data

The receipt training dataset is used to train the neuronal network parser. The neuronal network parser works good on English receipts and on certain stores e.g. Starbucks. However, the parser performs bad on German receipts.

The receipt training dataset is not uploaded to any third-party service, it is uploaded to your receipt parser server. You have full control over your receipt dataset.

FIVE

DEVELOPMENT

5.1 Enable debug output

Enable debug output shows are more detailed error message e.g. the performed POST request.

5.2 Show articles (WIP)

Allow, to show the items on the receipt.

5.3 Detect edges (WIP)

Allows to detect the edges of your receipt and cut of non receipt content.

Tip: increase the distance, if it does not work

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SI	X

OPEN-SOURCE LIBRARIES

Show all open source libraries used in this client.