SmallSketch Note User Guide

SmallSketch Note

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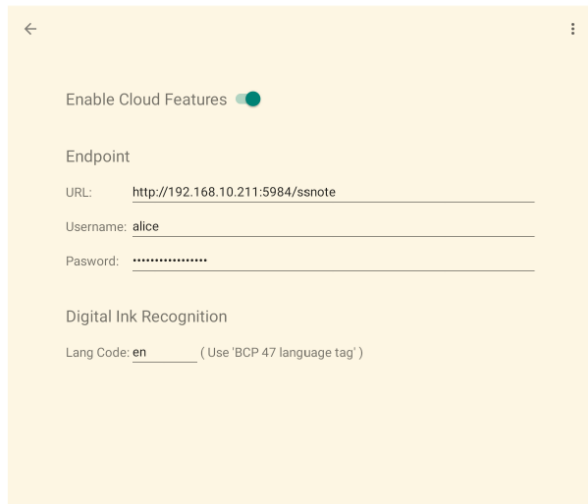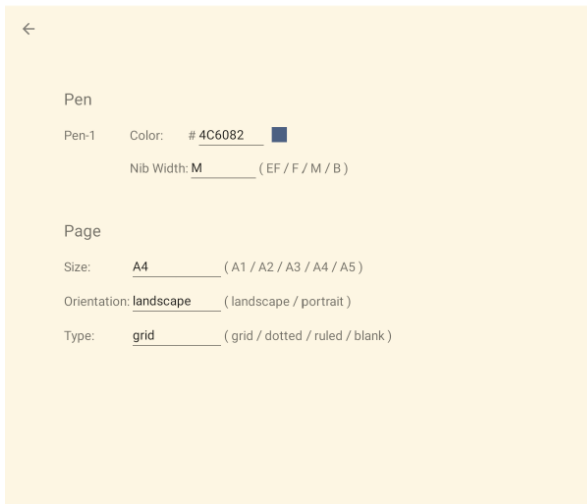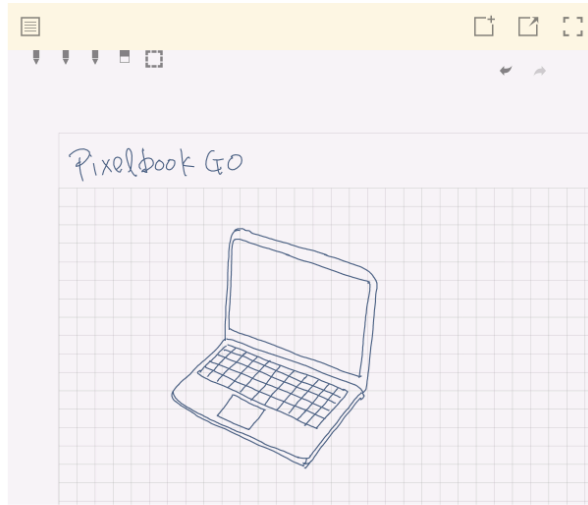
This document explains SmallSketch Note Version 1.1.5.

SmallSketch Note User Guide

Chapter 1. Introduction

SmallSketch Note is a simple handwriting and S Pen centric application for Android tablets.

1.1. Key Features

- Hand writing with S Pen

- Pen centric interaction design

- No frills UI for focusing on your thinking

- Backup and sync notes with Apache CouchDB

- Digital Ink Recognition

1.2. Requirements

- Android 6.0 (Marshmallow) or newer

- **S Pen** or Native Android Stylus

1.3. Installation

You can install this app from google play store.

1.4. Getting help

If you have any questions, please make contact. And also your feedback will be much appreciated.

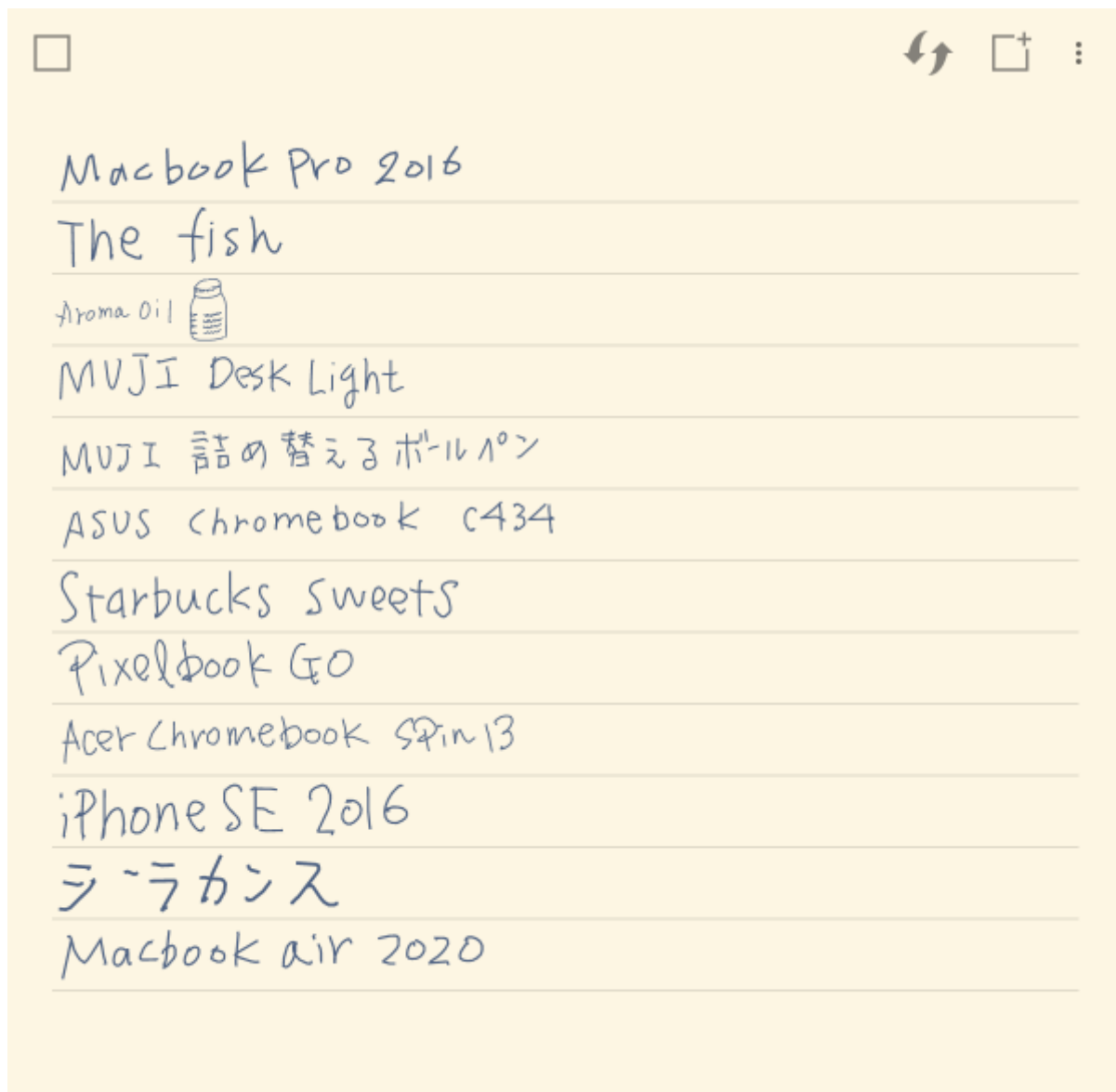To get update information, see Facebook / Twitter.

Chapter 2. Basic Usage

2.1. Activities

- Page List
- Editor
- Pen and Page Settings
- Cloud Settings

2.2. Page List

- ☐ Go to Editor
- ⚡ Backup and Sync
- ☐⁺ Add New Page
- Menu

- Import
  - Export
  - Export as PDF
  - Pen and Page Settings
  - Cloud Settings

💡 | Backup and Sync Icon appears only if Cloud Features ON Cloud Settings

2.2.1. Import / Export

You can import/export a page from/to Google Drive as SSN format.

💡 | This app also supports **SSF format** import. SSF is Small Sketch native format.

2.3. Editor

- 📄 Go back to Page List
- ⬜ Add New Page
- ⬈ Preview PDF
- ⛶ Fullscreen / Exit Fullscreen

Mode

- ▌ Pen
- ▌ Eraser
- ⬚ Selection

Edit

- ↩ Undo
- ↪ Redo

Editor has 3 modes, Pen/Eraser/Selection. And under the pen mode, using double tap gesture switch to or back **Zoom Mode** and **Normal Pen Mode**.

2.3.1. Under Pen Mode

- Stylus:
  - Draw strokes
- Stylus(Eraser):
  - Delete strokes
- Two Finger:
  - Scroll
- One Finger double tap:
  - Entering **Zoom Mode**
    - Under zoom mode, you can use two finger pinch in out.
    - In order to exit **Zoom Mode**, double tap with one finger again.

2.3.2. Under Eraser Mode

- Stylus:
  - Delete strokes

2.3.3. Under Selection Mode

- Stylus:
  - Create a group: lasso and create a group
  - Ungroup groups: stroke groups in vertical
  - Delete groups: stroke groups in horizontal
  - Resize a group
  - Rotate a group

Group

Lasso strokes with stylus and make them a group.

▶ ../images/videos/group.mp4 *(video)*

💡 | Group can be moved anywhere with stylus.

Resize a Group

Drag a right-bottom resize handle of the group with stylus.

▶ ../images/videos/resize_group.mp4 *(video)*

Rotate a Group

Drag a right-bottom rotate handle of the group with stylus.

▶ ../images/videos/rotate_group.mp4 *(video)*

Ungroup Groups

Stroke a group as vertical with stylus.

▶ ../images/videos/ungroup.mp4 *(video)*

💡 | You can also ungroup **groups** at once.

Delete Groups

Stroke a group as horizontal with stylus.

▶ ../images/videos/delete_group.mp4 *(video)*

💡 | You can also delete **groups** at once.

2.4. Pen and Page Settings

Pen

Pen-1   Color: # 4C6082   ▪

          Nib Width: M_____   (EF / F / M / B)

Page

Size: A4_____   (A1 / A2 / A3 / A4 / A5)

Orientation: landscape_____   (landscape / portrait)

Type: grid_____   (grid / dotted / ruled / blank)

💡 This settings change will be applied to a new page.

- ← Go back to Page List
- Pen
  - Pen1 Color and Nib Width
- Page
  - Size
  - Orientation
  - Type

2.5. Cloud Settings

- ← Go back to Page List
- Menu
  - ◦ Import
  - ◦ Export
  - ◦ Sync Log

2.5.1. Endpoint

You can backup and sync your notes with Apache CouchDB. See also the section Setting up your own CouchDB Server.

2.5.2. Digital Ink Recognition

About Digital Ink Recognition *Lang Code,* see this page in details.

Chapter 3. Advanced Usage

3.1. Setting up your own CouchDB Server

It explains how to install CouchDB on Ubuntu 20.04.

> 💡 Please also refer the official CouchDB install document.

3.1.1. Install CouchDB

Enabling the Apache CouchDB package repository:

```
$ sudo apt-get install -y gnupg ca-certificates
$ echo "deb https://apache.bintray.com/couchdb-deb focal main" \
 sudo tee /etc/apt/sources.list.d/couchdb.list
```

Installing the Apache CouchDB packages:

```
$ sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys \
  8756C4F765C9AC3CB6B85D62379CE192D401AB61
```

and

```
$ sudo apt update
$ sudo apt install -y couchdb
```

Under installing couchdb you have to answer for these questions:

- Server Type : standalone
- IP address : 127.0.0.1
- CouchdDB admin's password: *set up what you want*

After installing couchdb, check couchdb is running.

```
$ sudo systemctl status couchdb
```

And you can use systemctl command options *stop, start, restart*.

An example when you stop CouchDB:

```
$ sudo systemctl stop couchdb
```

3.1.2. Configure CouchDB

For using CouchDB as SmallSketch Note's server, just doing 4 steps under following.

> 💡 It needs *curl* command. If necessary, do *sudo apt install curl.*

Prepearing

Before start configuring, check CouchDB is running by curl.

```
$ curl http://admin:adminpasswd@127.0.0.1:5984/_up
```

> 💡 Replace *adminpasswd* with yours.

If CouchDB is running, returning such a message:

```
{"status":"ok","seeds":{}}
```

If not running, use systemctl command and make CouchDB running.

```
$ sudo systemctl start couchdb
```

Step1 Add User

To add a CouchDB user, create a *user.json* file in current dir like this:

```
{
  "docs": [
    {
      "_id": "org.couchdb.user:alice",
      "name": "alice",
      "password": "aliceInWonderland",
      "roles": [],
      "type": "user"
    }
  ]
}
```

> 💡 In this case, username is *alice* and password is *aliceInWonderland*. You can change them with what you want.

And do this:

```
$ curl -X POST -H "Content-Type:application/json" -d @user.json
http://admin:adminpasswd@127.0.0.1:5984/_users/_bulk_docs
```

If this command works, you get the message like this:

```
[{"ok":true,"id":"org.couchdb.user:alice","rev":"1-18d335cdfa1c7df9f71fdab2e2ed0264"}]
```

The *alice* user has been added.

Step2 Add Database

To add a CouchDB database, do this:

```
$ curl -X PUT http://admin:adminpasswd@127.0.0.1:5984/ssnote
```

> This *ssnote* is database name. You can change another database name what you want.

If this command is successful, you get this message:

```
{"ok":true}
```

Step3 Add Security

Next, update this *ssnote* database security for the *alice* user.

To get current the *ssnote* database security settings:

```
$ curl -X GET http://admin:adminpasswd@127.0.0.1:5984/ssnote/_security
{"members":{"roles":["_admin"]},"admins":{"roles":["_admin"]}}
```

And a *create security.json* file in current dir:

```
{
  "members": {
    "roles": [
      "_admin"
    ]
  },
  "admins": {
    "roles": [
      "_admin"
    ],
    "names": [
      "alice"
    ]
  }
}
```

💡 This json file, just adding the *alice* user into *admins.names* from the current security settings json.

To update the security, do this:

```
$ curl -X PUT -H "Content-Type:application/json" -d @security.json
http://admin:adminpasswd@127.0.0.1:5984/ssnote/_security
{"ok":true}
```

Check if the user alice is in *admins.names*, get the security again:

```
$ curl -X GET http://admin:adminpasswd@127.0.0.1:5984/ssnote/_security
```

Step4 Httpd

This is the final step, make CouchDB as httpd.

Edit the CouchDB *local.ini* file. In Ubuntu 20.04, the *local.ini* is placed in */opt/couchdb/etc/local.ini*.

```
$ sudo vi /opt/couchdb/etc/local.ini
```

And uncommentout *port* and *bind_address* settings in chttpd section, like this:

```
[chttpd]
port = 5984
bind_address = 192.168.10.100
```

This binding IP Address *192.168.10.100* is an example. Change this value with yours.

To apply this settings, restart CouchDB:

```
$ sudo systemctl restart couchdb
```

Let's check if it's workiing, access *http://192.168.10.100:5984/* with browser.

That is all to config CouchDB for SmallSketch Note.

💡 | If you want use CouchDB on the internet, you can use nginx and reverse proxy.

3.1.3. Cloud Settings

In order to use this CouchDB from SmallSketch Note, set up Cloud Settings.

Endpoint

- URL: http://192.168.10.100:5984/ssnote
- Username: alice
- Password: aliceInWonderland

Of course, these parameters are just examples. Please change them with yours.

💡 | About URL: http:// + CouchDB IP address + : + port + / + CouchDB database name

3.2. ssn2svg

This app native data format is called **SSN**. SSN format data can be converted to SVG with ssn2svg. And you can also download executable binary ssn2svg command from github release. It is supported Linux/Windows/macOS.