Anki-Pdf-Editor

Javafx + Spring

derMacon

October 10, 2019

- Introduction
- Installation / Requirements
- Usage
- Edit project properties
- Creating new cards
- Parsing user content
- Shortcuts - Programm specific
- Shortcuts - Vim in general

Introduction

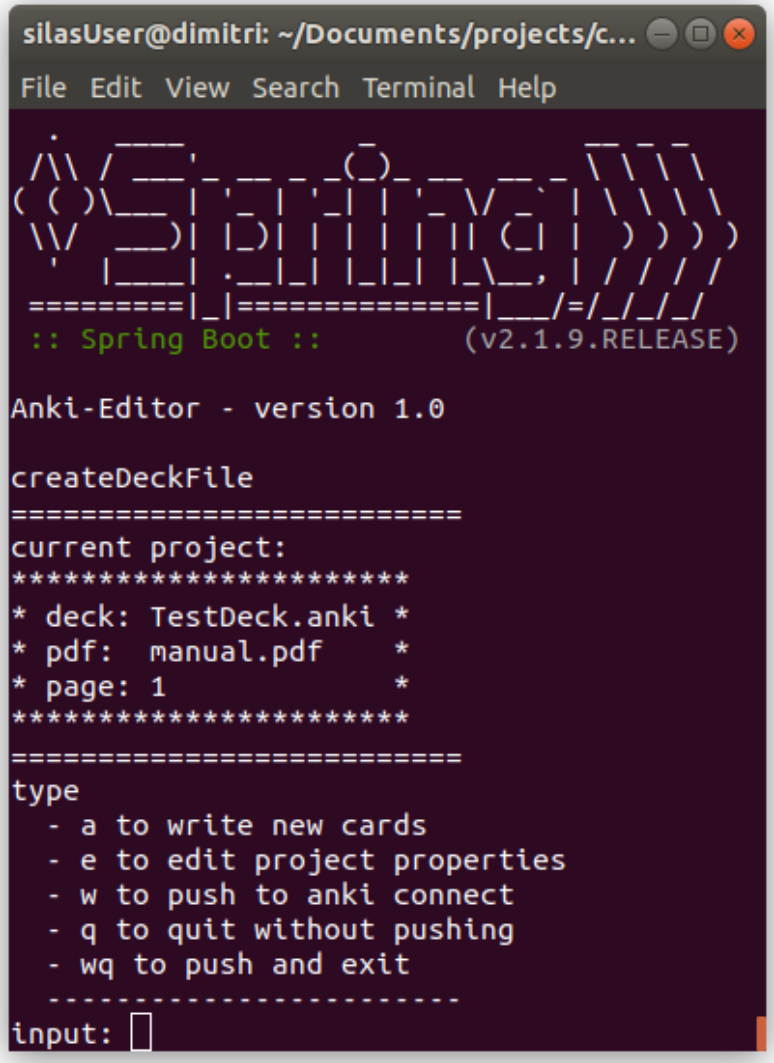
Commandline tool to create anki flash cards via the vim editor. Once started the programm will display a selected pdf document in which the user can navigate throughout vim itself. If a anki-card should contain a specific pdf page of the displayed document on either the front- or the backside of a note it can be passed in a simplyfied version where the pagenumber is written between tags.
All features can be used via shortcuts. For that the program opens a costum .vimrc.

Installation / Requirements

- Unix OS (due to filepaths)
- Vim
- Ankidroid 2.1 (or newer)
- Ankiconnect addon
- gnome-terminal (terminal emulation)

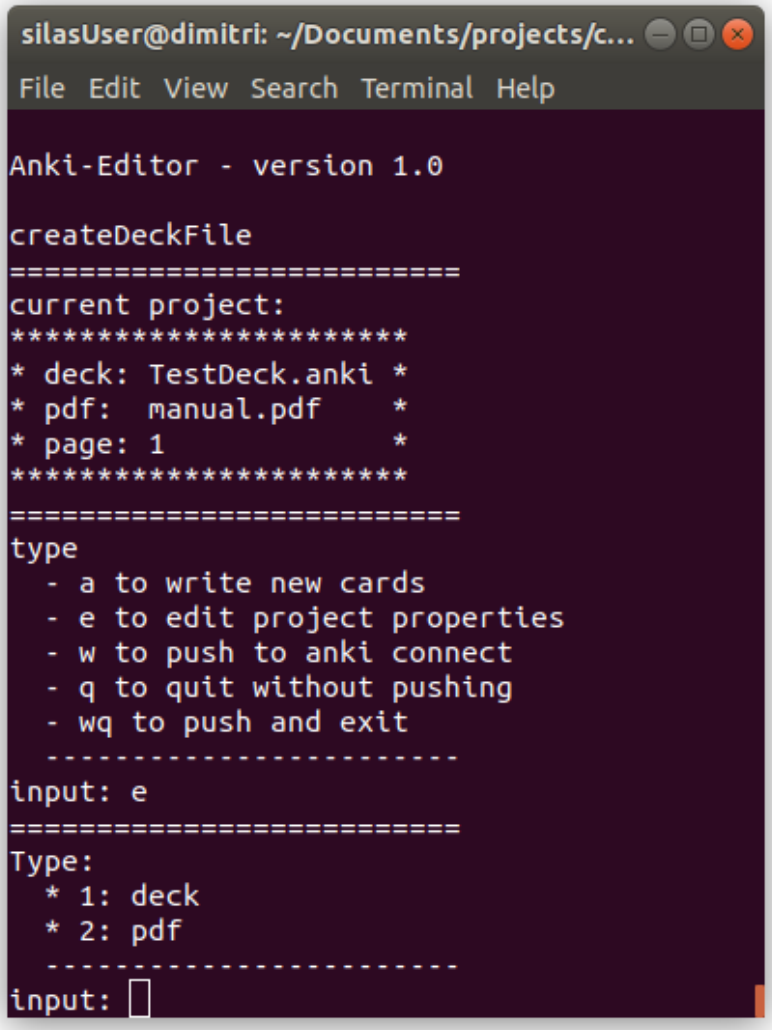
Usage

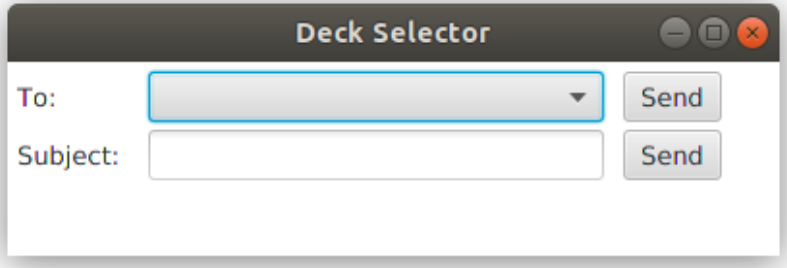
- To open run the programm run the command ‘java -jar *path/to/jar*‘. Once run, spring will allocate the 8080 port on the machine and expose a rest api.
- The user will be confronted with the following menu:

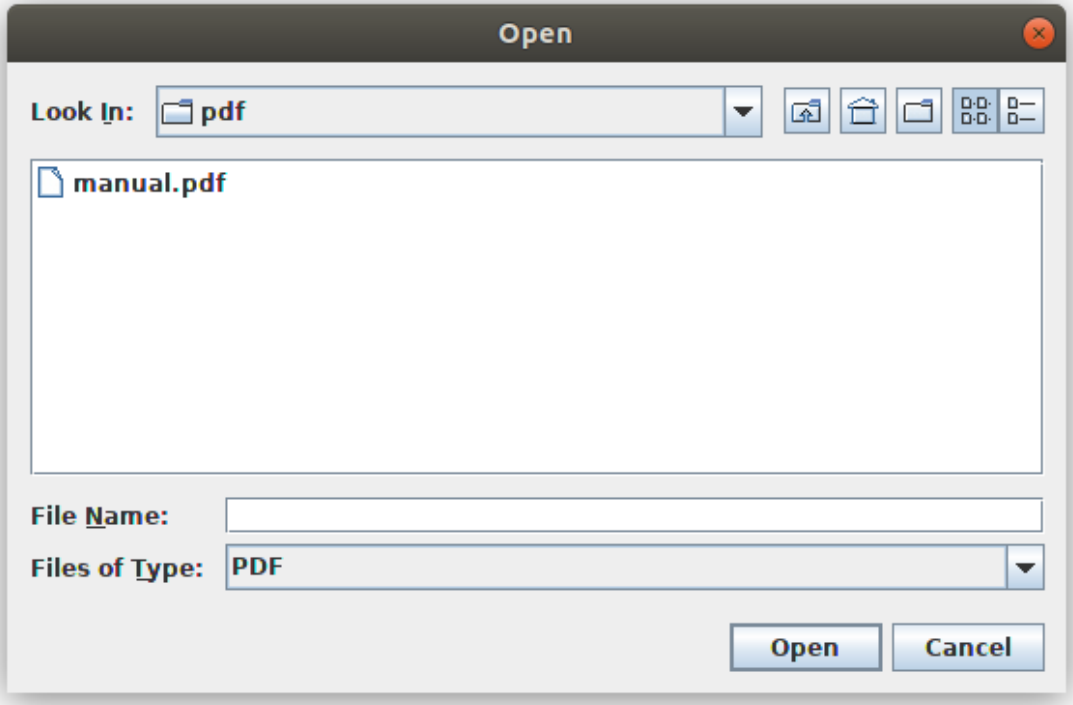


Edit project properties

- When selecting the project properties the user has the choice to either change the displayed pdf or the stack of cards to which the cards should be added




Deck Selector
To:
Send
Subject:
Send


Open
Look In:
pdf
manual.pdf
File Name:
Files of Type:
PDF
Open
Cancel

Creating new cards

- a javafx gui will load containing a pdf viewer showing the selected pdf
- a second window containing a vim instance will open. This vim session is capable of communicating with the exposed rest api. By pressing either *z* (next page) or *shift* + *z* (previous page) the pdf viewer updates accordingly.
- to import / paste the displayed image as a png in the current card just press *p* and an image tag with the following syntax will be pasted into the document at the cursor position:
- if the user has overwritten this register the page is also accessable via the keykombination ,*p*

Parsing user content

- to parse the user input to actual anki cards the user has to save his written content via *:wq* in the vim instance and type *alt + f4* to exit pdf viewer.
- in the top level menu either select *w* or *wq*
- in the background the java backend will generate the required json format for the ankidroid api (AnkiConnect)
- the json also contains html elements for the given images / linebreaks to ensure a readable anki card
- after pushing the changes to the anki rest api, the cards should be displayed in the appropriate deck in the anki desktop program itself.

Shortcuts - Programm specific

All program specific shortcuts in a nutshell:

- *z* / *shift* + *z*: turn next / previous page; Copy the current page tag to the default register (accessed via *p*)
- , + *c*: Append new card template to anki file
- ,+ *p*: Reload page tag, pastes the current page tag to cursor position
- , + *t* / , + *shift* + *t*: tab between fields

Shortcuts - Vim in generall