

SCAM Manual

jul

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Contents

Synopsis	2
Installation	4
Walkthrough: writing the aide	6
Creating a login	6
your first postit entry	9
Attaching a content to an entry.	10
Developping your first comment and setting your book title	10
Checking on your book	12
Rinse and repeat	13
Playing with the help example	14
Liste des liens	15
WTFPL 2.0 Do any thing you want with this book except claim you wrote it	

Synopsis

This is a front end to a pandoc toolchain based on mind mapping for structuring the thoughts with a real time rendering of the markdown.

Markdown that includes pandoc-include and my own one to integrate graphviz like this :

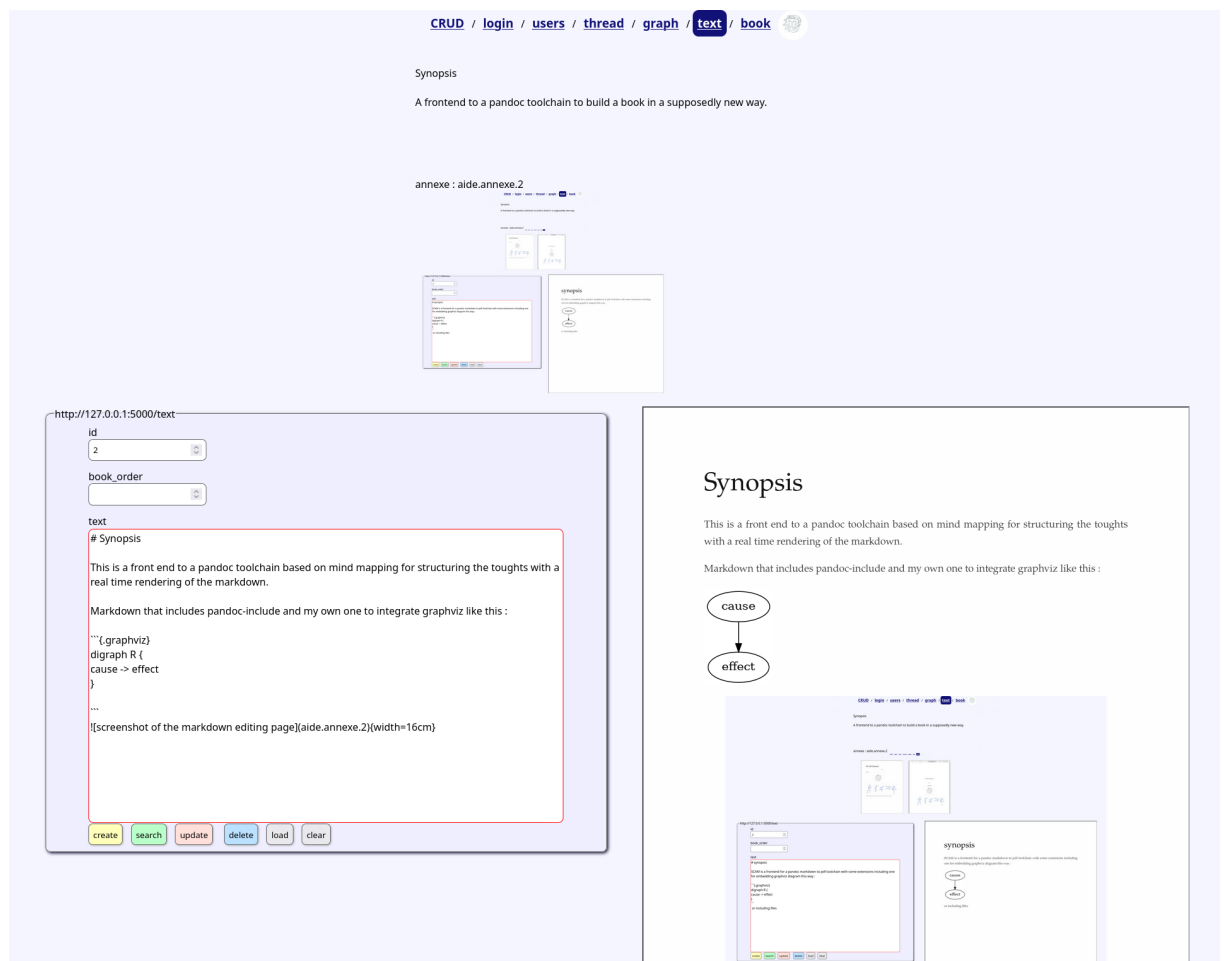


Figure 1: screenshot of the markdown editing page

The home page of SCAM is on [github](#)

Installation

I am too lazy to write an install script, make a debian package, or a full pip requirements solution because I need binary installs.

As a result I resorted to the solution of the lazy man which source tells you all you need : making it a docker file.

```
FROM debian
ENV LANG C.UTF-8
RUN mkdir -p /usr/share/man/man1 && mkdir -p /usr/share/man/man7
RUN apt-get update && apt-get -y dist-upgrade \
  && rm -rf /var/lib/apt/lists/*
RUN apt-get update && apt-get -y --no-install-recommends install \
  python3 python3-pip python3-venv python3-setuptools \
  python3-sqlalchemy texlive pandoc graphviz virtualenv \
  python3-magic sqlite3 texlive-xetex texlive-latex-extra \
  texlive-fonts-recommended texlive-lang-french lmodern

RUN useradd scam -d /app --uid 1000 -m -s /bin/bash
COPY --chown=scam . /app
WORKDIR /scam
RUN mkdir /scam/assets /venv
RUN chown -R scam:scam .

COPY . .

RUN virtualenv --system-site-packages /venv
RUN . /venv/bin/activate
COPY requirements.full.txt .
ENV PYTHONPATH=/venv/bin
RUN /venv/bin/python -m pip install --no-cache-dir \
  --disable-pip-version-check -r requirements.full.txt
EXPOSE 5000
USER scam
CMD . /venv/bin/activate && cd /scam && DB=${db:-scam} /venv/bin/python /app/scam.py
```

with the following requirements :

```
archery
pandoc-include
dateutils
```

```
multipart
filelock
Mako
pandocfilters
panflute
passlib
python-dateutil
SQLAlchemy>=2
SQLAlchemy-Utils
time-uuid
```

to use it I recommend the side car technique wich can be used this way so that you can access the assets dir which contain the book :

```
docker build -t scam .
docker run -i -t -e db=bookname \
    --mount type=bind,src=.,dst=/scam \
    -p5000:5000 scam
firefox http://127.0.0.1:5000
```

Walkthrough: writing the aide

Creating a login

The landing page is a Create Retrieve Update Delete skeleton generated from the data model (which is the HTML of the page by design).

It is recommended to create a user first because all other interesting page are accessible only when connected.

title
id
text

text
id
user id

CRUD

[login](#) / [users](#) / [thread](#) / [graph](#) / [text](#) / [book](#)

transition
id
previous_comment id
next_comment id

annexe
id
annexe_file

comment
created_at_time
id
user_id
comment_id
message
factoid
category

user
id
pic_file
name
email
secret_token
secret_password

http://127.0.0.1:5000/user

id

1

pic_file

Parcourir... cats.png

name

jul

email

j@j.com

secret_token

secret_password

....

create

search

update

delete

load

clear


Figure 2: CRUD landing page : time to create your user

On successful login you should see this :

[CRUD](#) / [login](#) / **[users](#)** / [thread](#) / [graph](#) / [text](#) / [book](#) |

id:	1
name:	jul
email:	j@j.com

picture:

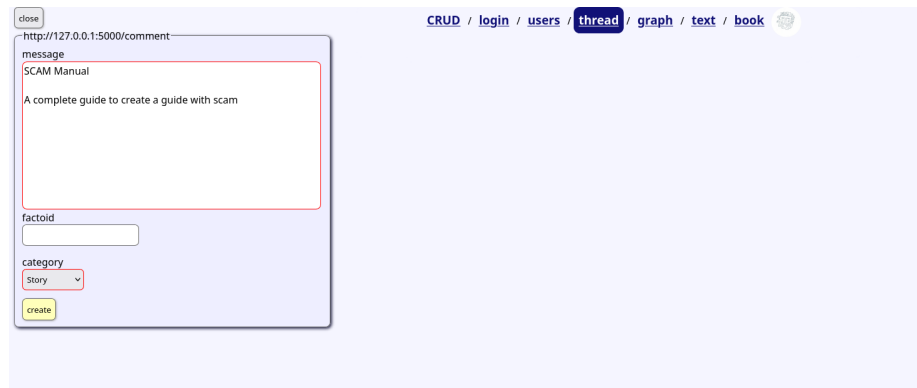


token:

Figure 3: succesfull login

your first postit entry

Time to create your first « idea » ; a small entry of less than 500 characters, like a microblogging entry to know what topic you are gonna talk of



The screenshot shows a web application interface for creating a post. The interface is light blue with a dark blue header bar. The header bar contains the text "CRUD / login / users / thread / graph / text / book" and a small circular icon. The main content area is a light blue box with a white border. Inside this box, there is a form with the following elements:

- A "close" button in the top left corner.
- A URL bar showing "http://127.0.0.1:5000/comment".
- A "message" label above a text input field containing "SCAM Manual".
- A "factoid" label above a text input field.
- A "category" label above a dropdown menu showing "Story".
- A "create" button at the bottom right.

Figure 4: begin with the thread interface



Figure 5: when you correctly add your first entry you have the following output

Attaching a content to an entry.

I chose the policy that one micro item is related to one and only one attachment of the embedable kind you want.

These items will be available in the markdown editor

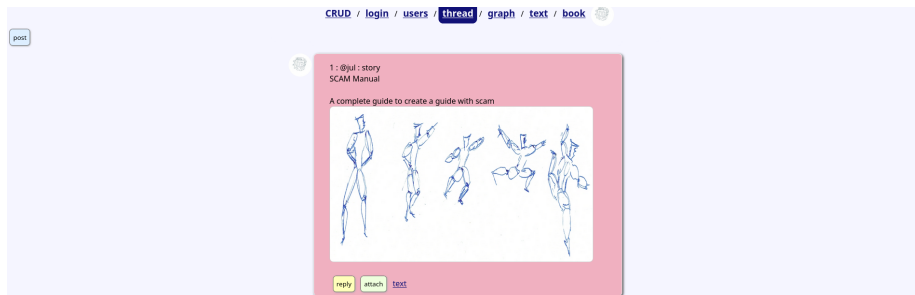


Figure 6: by clicking on the « attach » button you can attach a content to the post it entry

Developping your first comment and setting your book title

First comment is specific in the sense it is also used for the title. With pandoc you can add metadata used for LaTeX.

The markdown extension used here is the pandoc one

Here is the one that I put in the capture

```
% TITLE
% AUTHOR
% DATE \
\
![] (aide.user.1){width=5cm}
\
\ ![] (aide.annexe.1){width=15cm}

---
header-includes:
```

```

- \usepackage[french]{babel}
- \usepackage{hyperref}
- \definecolor{myblue}{rgb}{0.28, 0.24, 0.48}
- \hypersetup{colorlinks=true, allcolors=myblue}
- \let\tmp\oddsidemargin
- \let\oddsidemargin\evensidemargin
- \let\evensidemargin\tmp
- \reversemarginpar
---

```

Your real time markdown input is definitely confused, it is time to add more postists dans develop them.

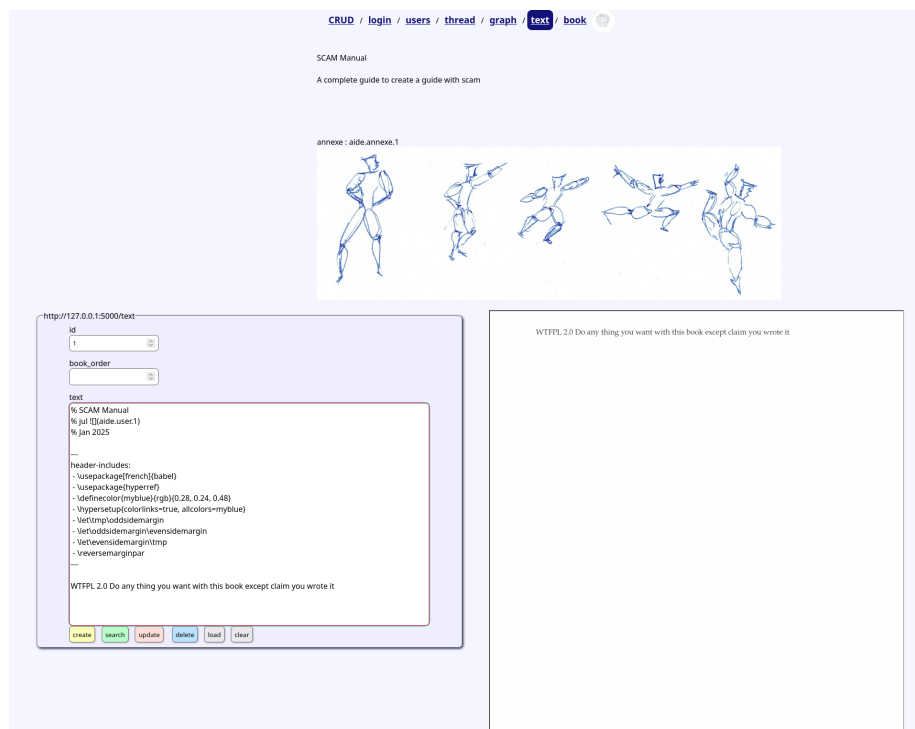


Figure 7: screenshot of the development UI

As you can see text input always have a reminder of the available for inclusion attachment and make it easy to insert it as a picture.

Checking on your book

it's now time to visit the book rendering URL. You should have a side by side view of the generated standalone HTML and the generated PDF.

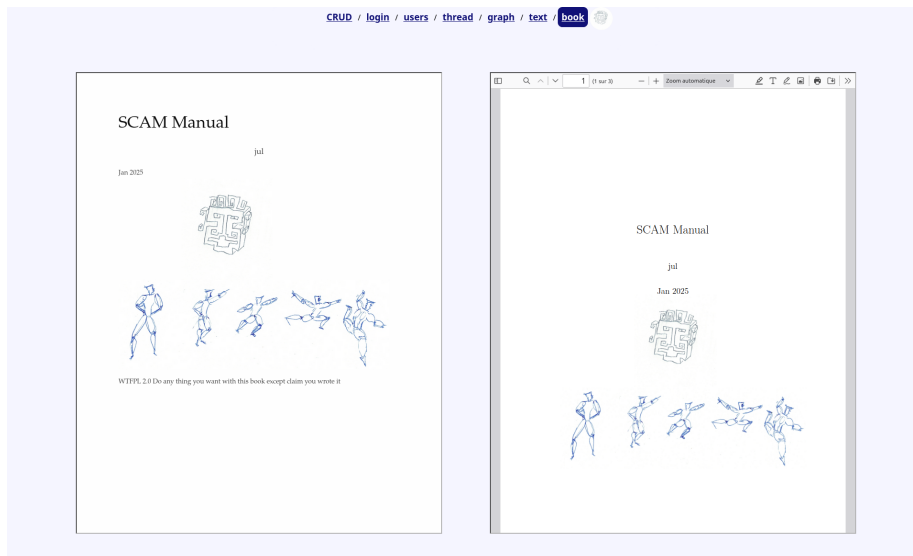


Figure 8: book rendering

Rinse and repeat

Ather a few more entries that are boring because very repitive if you consult the graph URL you should have now more entries.

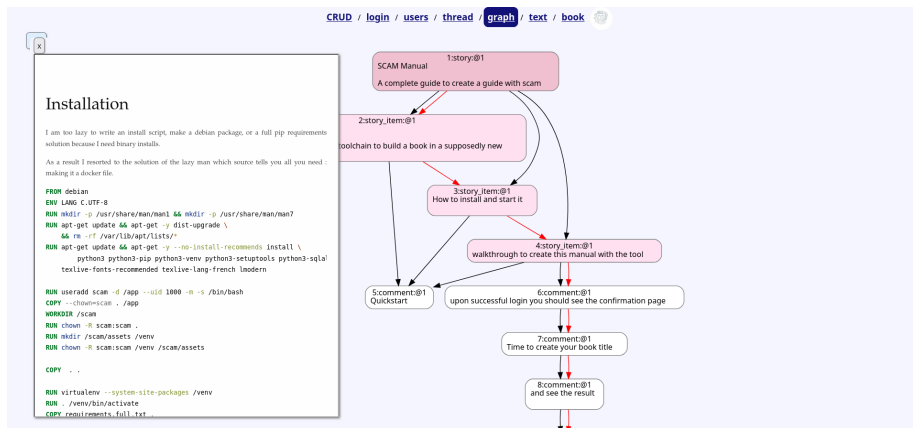


Figure 9: Your graph should now expand itself as the book

The « book order » is the red lines, they follow the ascending id order but can be overridden with the book_order rank available in the text view.

Playing with the help example

This book is available in the repository as a sqlite database.

To try it :

```
docker run -i -t -e db=aide --mount type=bind,src=.,dst=/scam \  
-p5000:5000 --user 1000:1000 scam \  
firefox http://127.0.0.1:5000
```

Liste des liens

<http://127.0.0.1:5000/> The landing page
<https://pandoc.org/MANUAL.html#pandocs-markdown> markdown
extension used here is the pandoc one
<http://127.0.0.1:5000/book> it's now time to visit the book rendering
URL
<http://127.0.0.1:5000/svg> you consult the graph URL
<http://github.com/jul/scam> The home page of SCAM is on github