px: PEAX Command Line Client

Wirtschaftsprojekt (Herbstsemester 2019)

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Ablauf

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Systemkontext

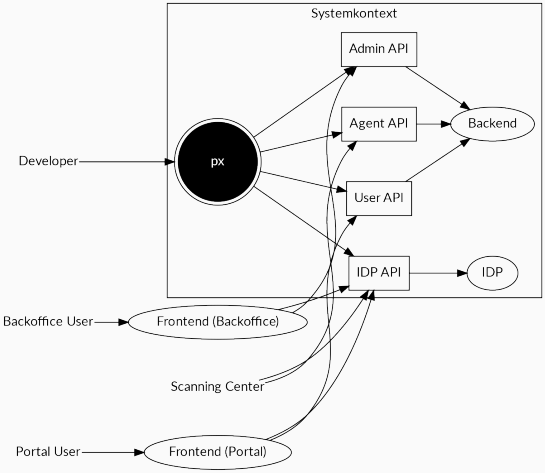

Abbildung 1: Kontextdiagramm

Problemstellung

```
curl -X POST -H "Cache-Control: no-cache" \
    -H "Content-Type: application/x-www-form-urlencoded" \
    --data "grant_type=password&client_id=peax.portal& ⏎
    username=683.4839.1914.79&password=Geheim" \
    https://sv-idp-keycloak-test.osapps.peax.ch/auth/ ⏎
    realms/peax-id-test/protocol/openid-connect/token \
    | jq -r .access_token > access_token
curl -X POST -H "Authorization: Bearer $(cat access_token)" \
    -H "Content-Type: multipart/form-data; charset=UTF-8" \
    -F "document=@document.pdf;type=application/pdf" \
    -F "@meta.json;type=application/json" \
    https://sv-oauth-proxy-test.osapps.peax.ch/document/ ⏎
    api/v3/account/683.4839.1914.79/collection/upload
```

Lösungsansatz

```
px login -e test -u patrick.bucher@stud.hslu.ch
px upload document.pdf -meta metadata.json
```

Swiss Army Knife

Git:

```
git status
git add *.sh
git commit -m 'added shell scripts'
```

px:

```
px login -e test -u john.doe@foobar.com -p topsecret1337
px upload document.pdf
px logout -a
```

Unix-Philosophie

Verwendung als Befehl:

```
px upload document.pdf
```

Verwendung im “Skript”:

```
px upload document.pdf | jq -r '.documentId' >> documentIds.txt
```

Kompromiss

“hardcore”:

```
for doc in $(find /home/joe/docs -type f | grep -i '\.pdf$')
do
    px upload "$doc" | jq -r '.documentId' >> documentIds.txt
done
```

“casual”:

```
px upload -r /home/joe/docs > report.json
```

Teststrategie

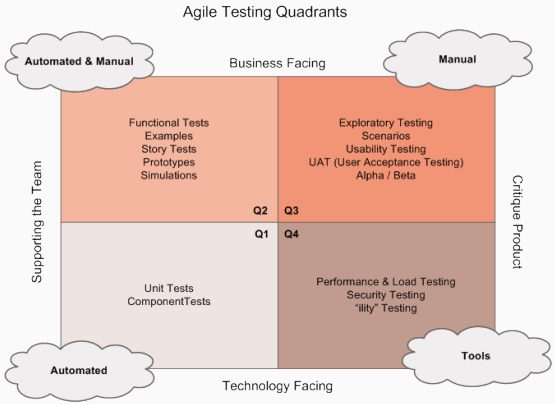

Abbildung 2: Agile Testing Quadrants
(https://lisacrispin.com/2011/11/08/using-the-agile-testing-quadrants/)

Umsetzung

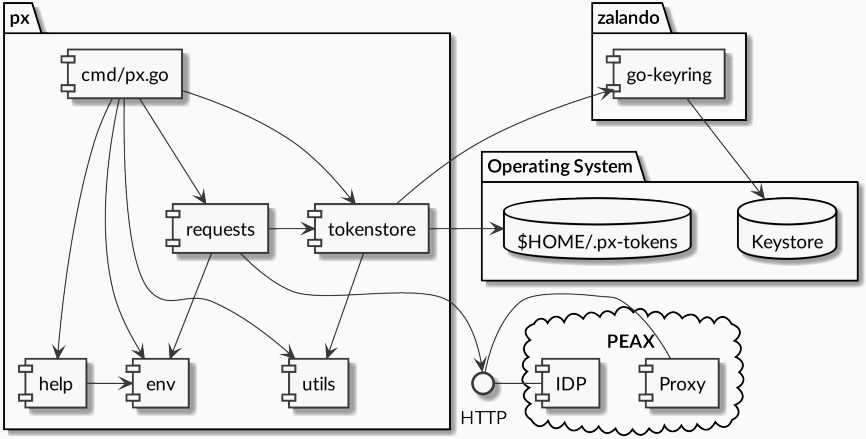

Abbildung 3: Komponentendiagramm zu px

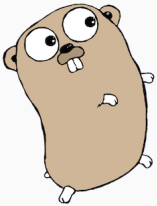

Abbildung 4: Go Gopher (https://blog.golang.org/gopher)

Live-Demo

Abbildung 5: Dennis Ritchie (links) und Ken Thompson (rechts)
(http://genius.cat-v.org/ken-thompson/photos/ken-and-dennis-with-pdp11.jpg)