## px: PEAX Command Line Client

Wirtschaftsprojekt (Herbstsemester 2019)

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#### **Ablauf**

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## Systemkontext

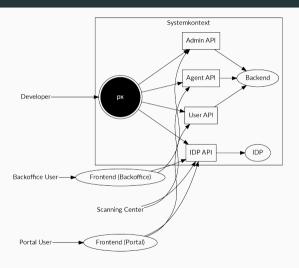


Abbildung 1: Kontextdiagramm

## **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/ 4
    realms/peax-id-test/protocol/openid-connect/token \
    | jg -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 Knive**

```
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 $(find /home/joe/docs -type f | grep '\.pdf$')
do
    px upload "$doc"
done
Benutzerfreundlich:
px upload -r /home/joe/docs
```

### Teststrategie

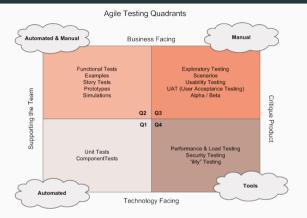
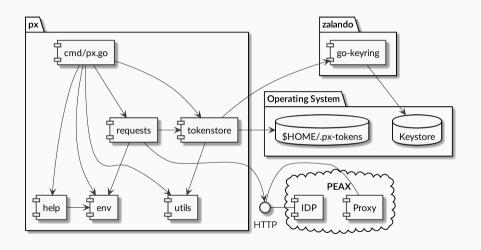


Abbildung 2: Agile Testing Quadrants (https://lisacrispin.com/2011/11/08/using-the-agile-testing-quadrants/)

## Umsetzung



**Abbildung 3:** Komponentendiagramm zu px

# Programmiersprache Go



 $\textbf{Abbildung 4:} \ Go\ Gopher\ (https://blog.golang.org/gopher)$ 

#### 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)