



Agenda

- Vision
- SRS
- Scopes
- Project Methodology
- Time Estimation
- Risk Management
- Demo
- Architecture
- Configuration
- Automation
- Tests

Vision



Encryption

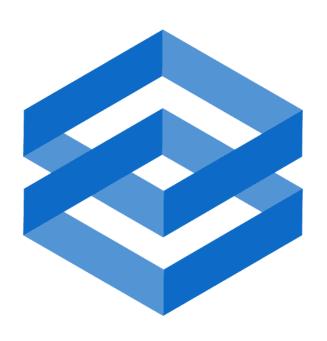
Secure cloud credentials storage

Android Autofill Service

Secure data transfer

Dashboard

Chrome plugin

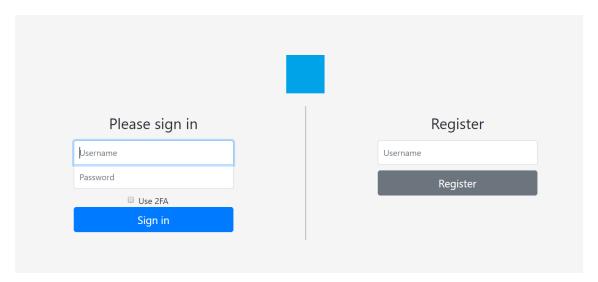


Software Requirements

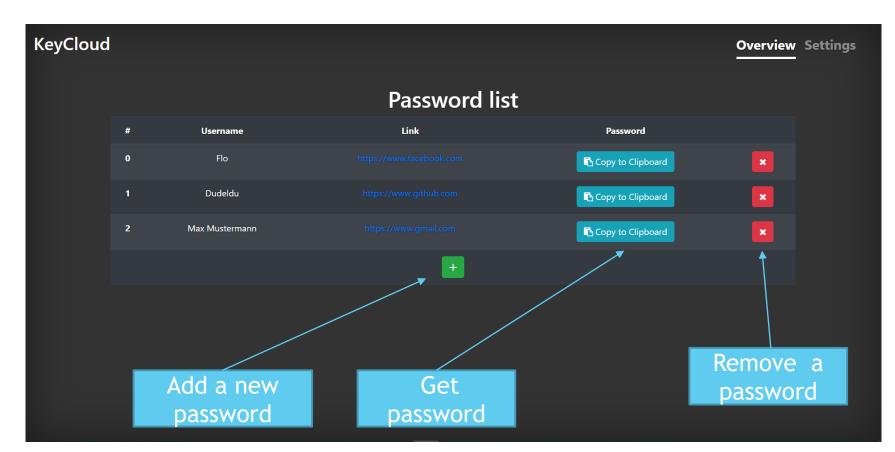
- Simple interfaces with maximum functionality
- Secure and high availability
- Clean Code and use of best practices
- Easy to maintain
- SRS <u>https://github.com/keycloud/docs/blob/master/doc/SRS.md</u>

Scopes



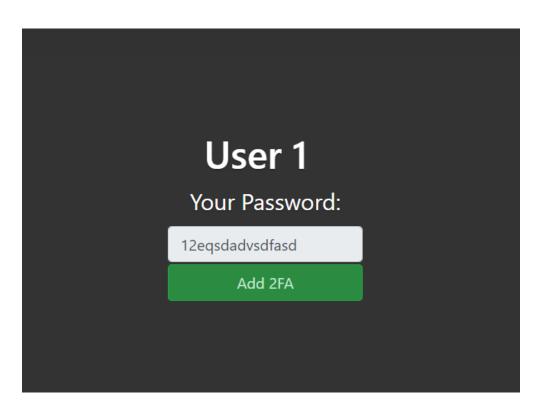


Scopes





Scopes





Project Methodology



- Scrum (1 week sprint)
- Flat hierarchies
- Roles according to RUP (Rational Unified Process) terminology

Iterative Process

- Agile work environment
- Scope can be adjusted to fit the needs of the customer

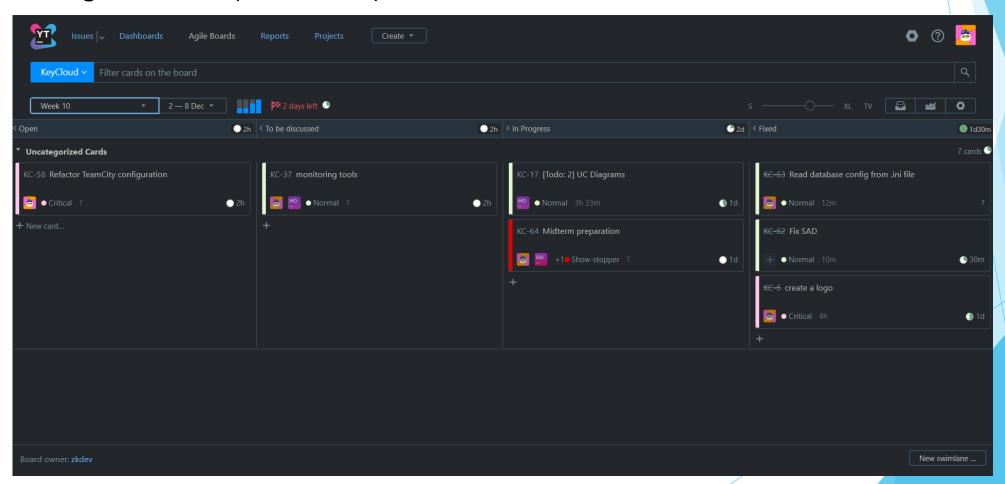


28.06.2020

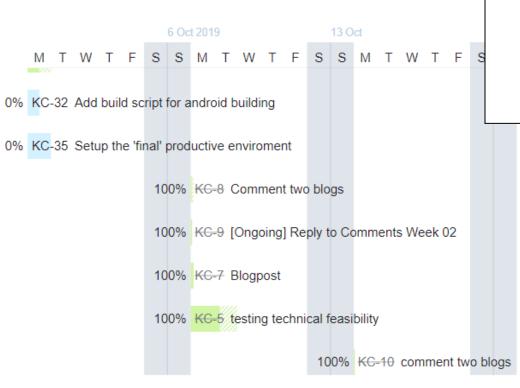
9

Project Management

Agile board (YouTrack)



Time Estimation



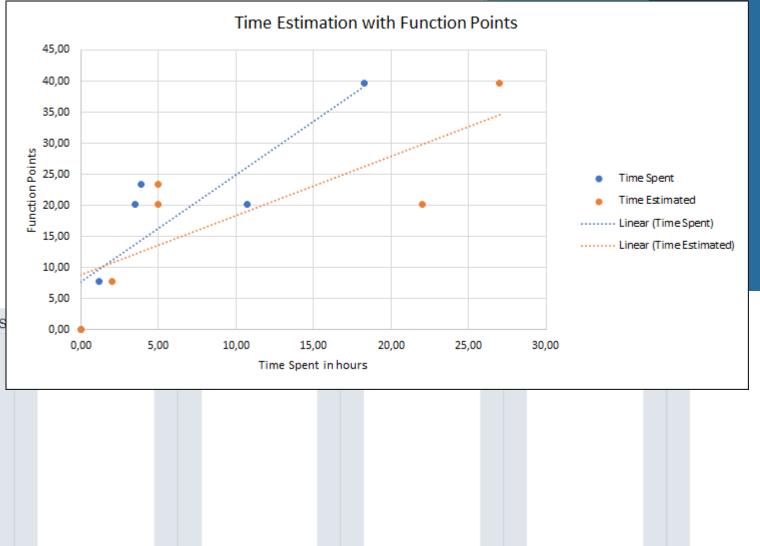
Dec

Jan 2020

Feb

Nov

Oct 2019



Mar

Risk Management

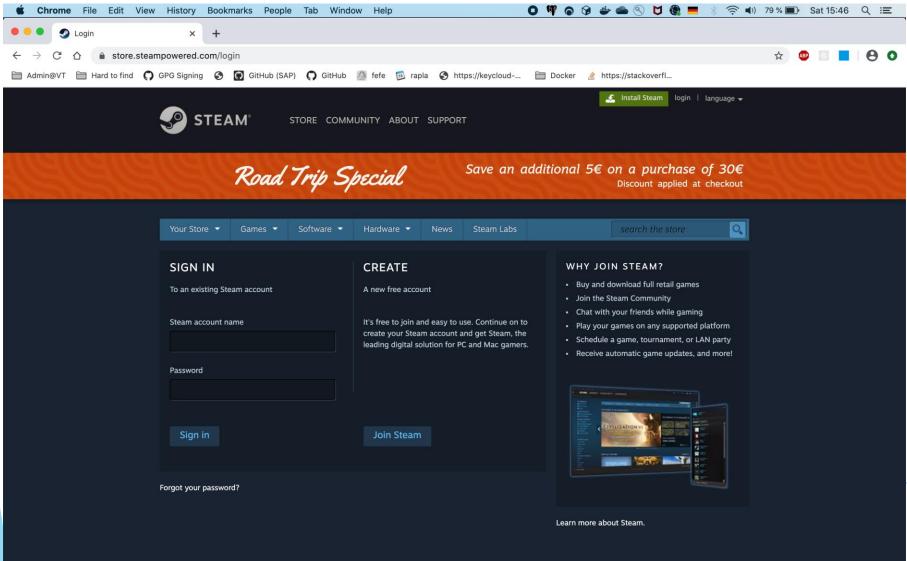


Risk	Prob. of Occurrence	Damage	Mitigation Strategy	Risk factor
Landscape Migration	medium	high	Backup strategy, switch back to old hosting solution, that already worked	high
Time delay	high	medium	Rebalance work load between team members, at least after the week on the next sprint meeting	medium
Disagreement	medium	medium	Open discussion, realignment, democratic choice out of three	medium
Underestimation of complexity	low	high	redefine scope	medium
Sickness	low	medium	Know each others code well, worst-case: redefine scope	low
Data loss	low	low	Accurate git version control usage	low

Demo

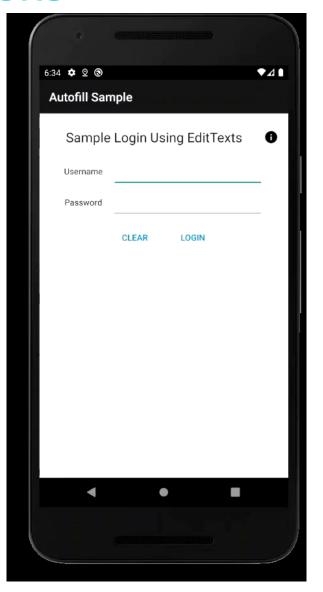


Further Functions





Further Functions





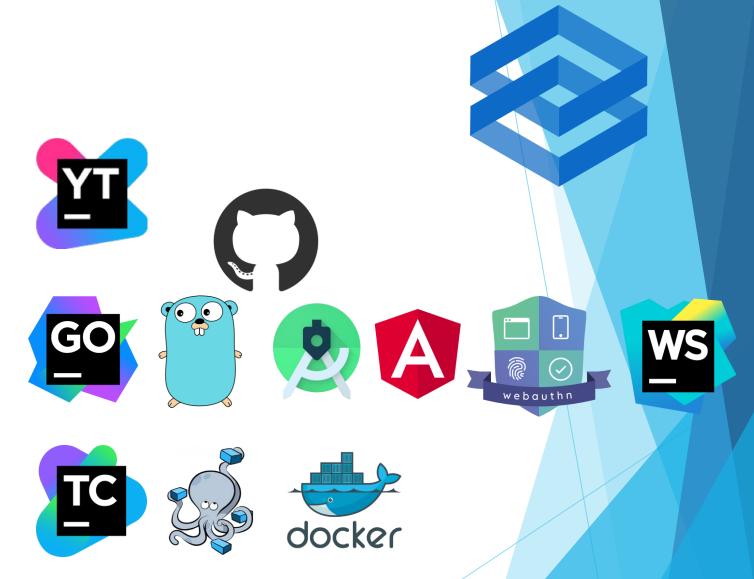
28.06.2020

Technology Stack

PROJECT MANAGEMENT

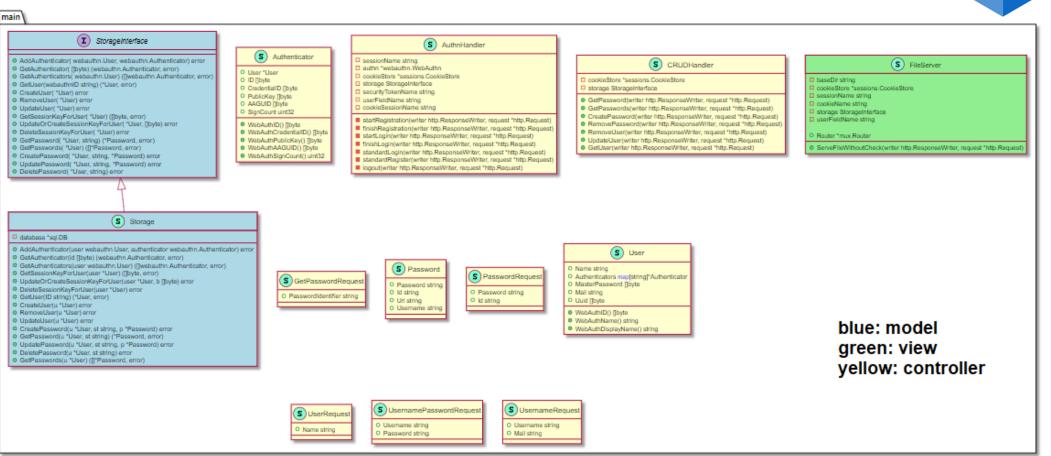
DEVELOPMENT

► CI/CD

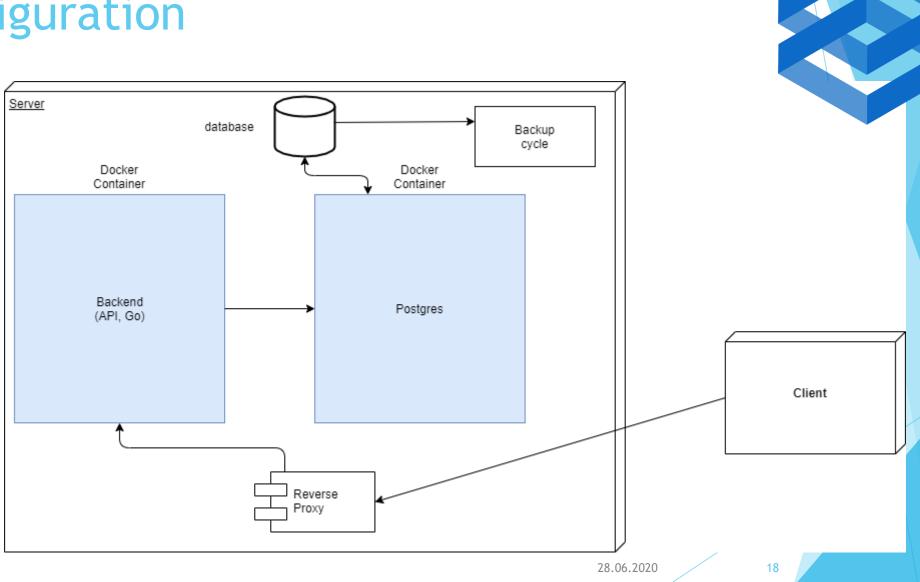


Class Diagramm



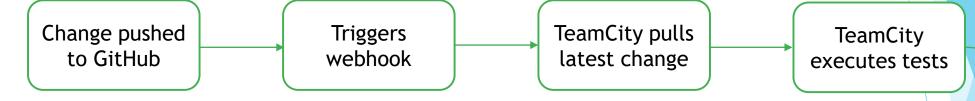


Configuration



Automation





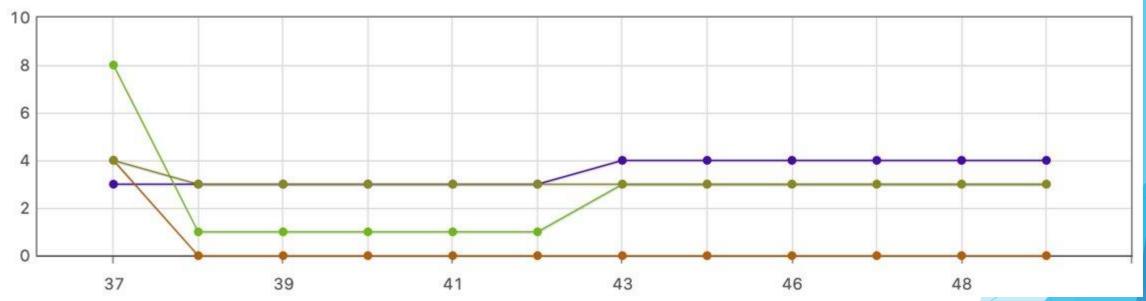
Build latest docker image to dockerhub

Push image to version

Code Metrics







```
router.Handle("/user", crud.GetUser).methods("get")
router.Handle("/user", crud.RemoveUser).methods("delete")
router.Handle("/user", crud.UpdateUser).methods("puts.0)2020
```

Tests

- Cucumber
- Unittests (go tests)
- Karmatests (Angular)
- External Testperson

```
TestAuthnHandler standardLogin
   PASS: TestAuthnHandler standardLogin (0.01s)
          TestAuthnHandler standardRegister
--- PASS: TestAuthnHandler standardRegister (0.00s)
          TestAuthnHandler startRegistration
--- PASS: TestAuthnHandler startRegistration (0.00s)
         TestAuthnHandler_startLogin
--- PASS: TestAuthnHandler startLogin (0.00s)
        TestCRUDHandler GetPassword
--- PASS: TestCRUDHandler GetPassword (0.00s)
         TestCRUDHandler_GetPasswords
   PASS: TestCRUDHandler GetPasswords (0.00s)
          TestCRUDHandler CreatePassword
--- PASS: TestCRUDHandler CreatePassword (0.00s)
         TestCRUDHandler RemovePassword
--- PASS: TestCRUDHandler RemovePassword (0.00s)
          TestCRUDHandler RemoveUser
--- PASS: TestCRUDHandler RemoveUser (0.00s)
          TestCRUDHandler UpdateUser
--- PASS: TestCRUDHandler UpdateUser (0.00s)
         TestCRUDHandler GetUser
--- PASS: TestCRUDHandler GetUser (0.00s)
PASS
coverage: 42.2% of statements
ok
        github.com/keycloud/keycloud/server
                                                0.352s
```

