



myCommunity

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Ziel

myCommunity soll helfen das WG-Leben besser zu organisieren und harmonischer zu gestalten.

- Kalender
- Einkaufsliste
- Putzplan

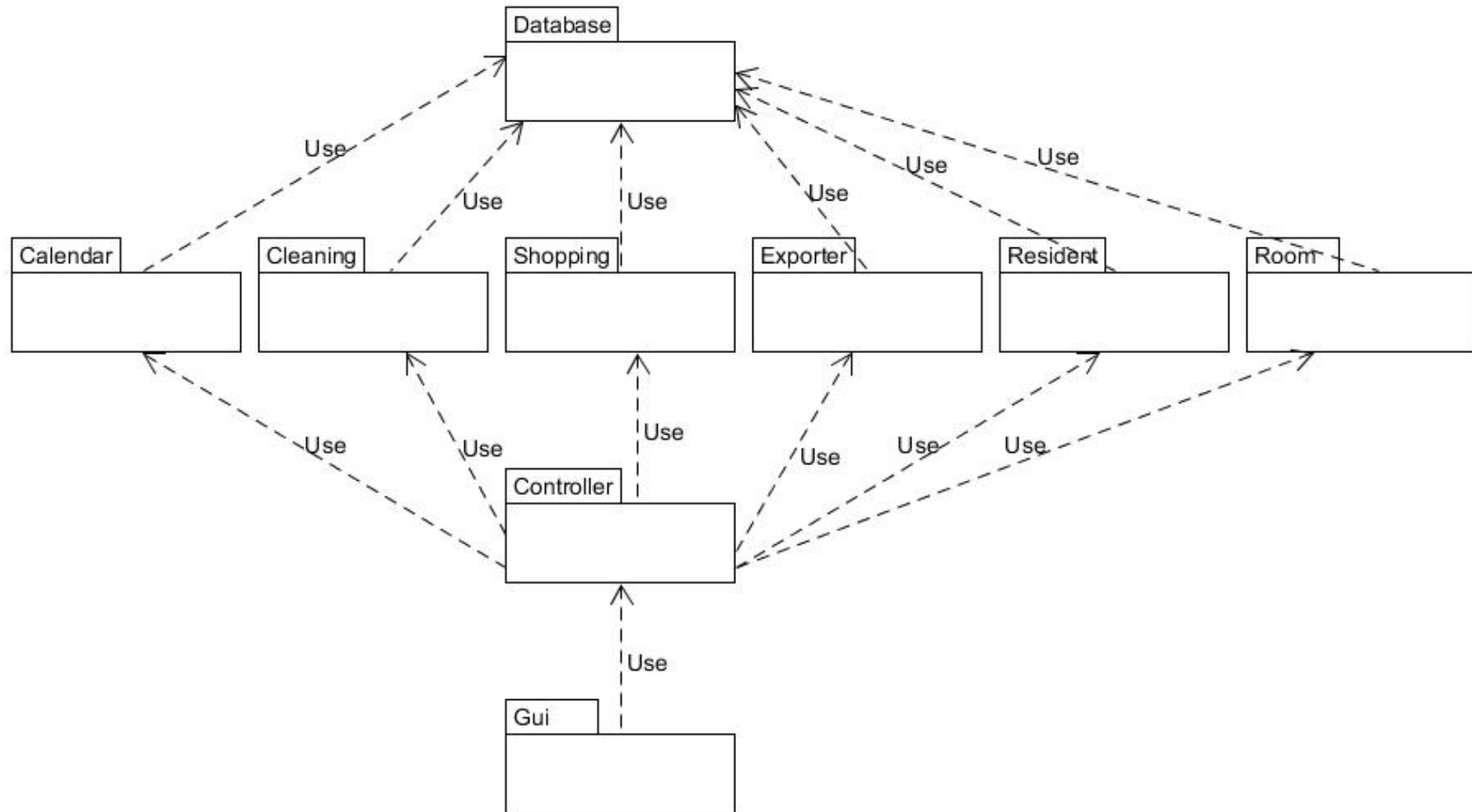
Anforderungen

- **User:** an-/abmelden, hinzufügen, Passwort ändern, löschen
- **Räume:** hinzufügen, löschen
- **Termine:** hinzufügen, ändern, löschen, privat/gemeinschaftlich
- **Putzplan:** Aufgaben erstellen, zuweisen, löschen
- **Einkaufsliste:** hinzufügen, löschen
- **Export:** Einkaufsliste & Putzplan als Datei speichern

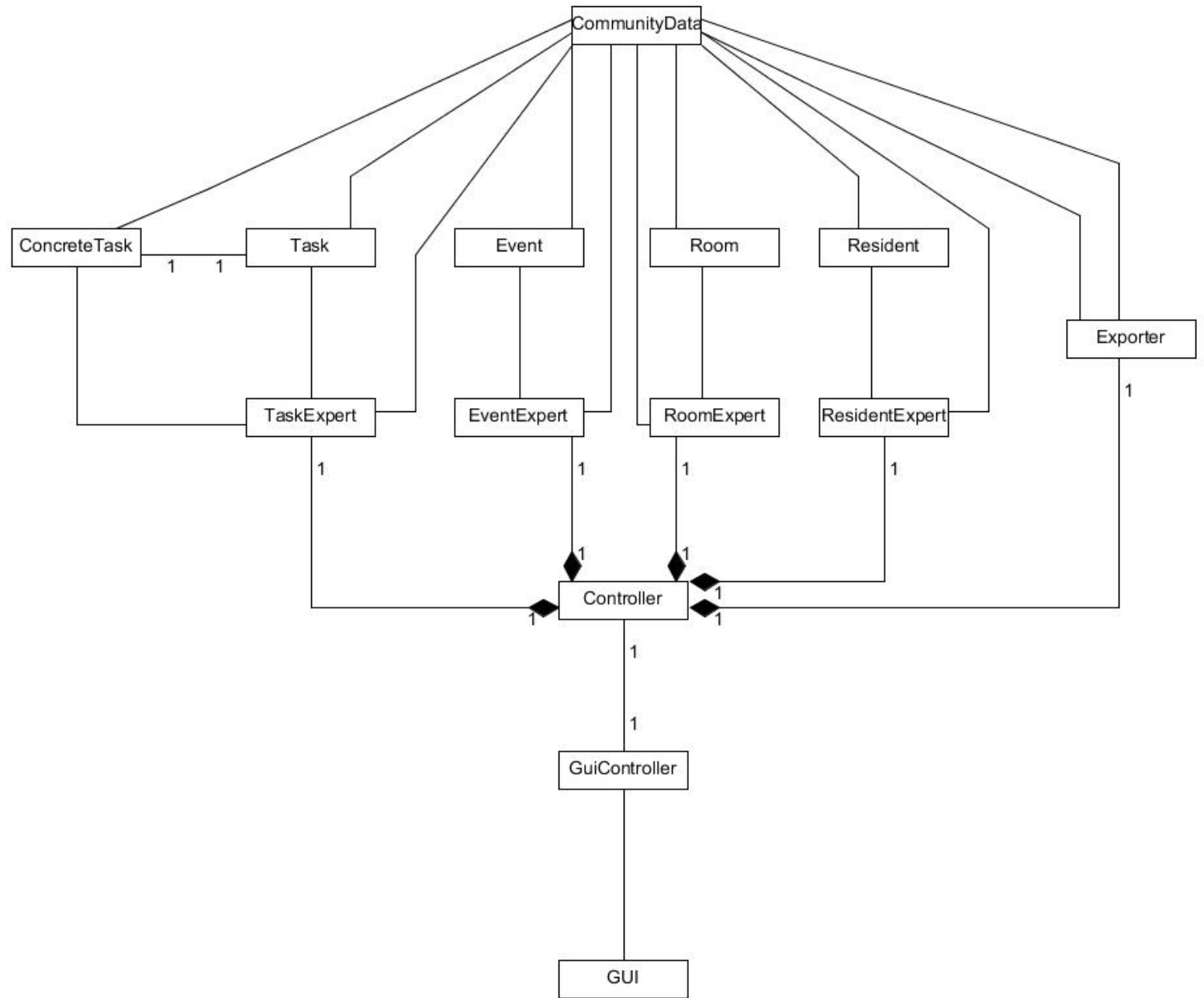
Technologie und Infrastruktur

- C++
- Qt Creator
- GitLab
- MySQL

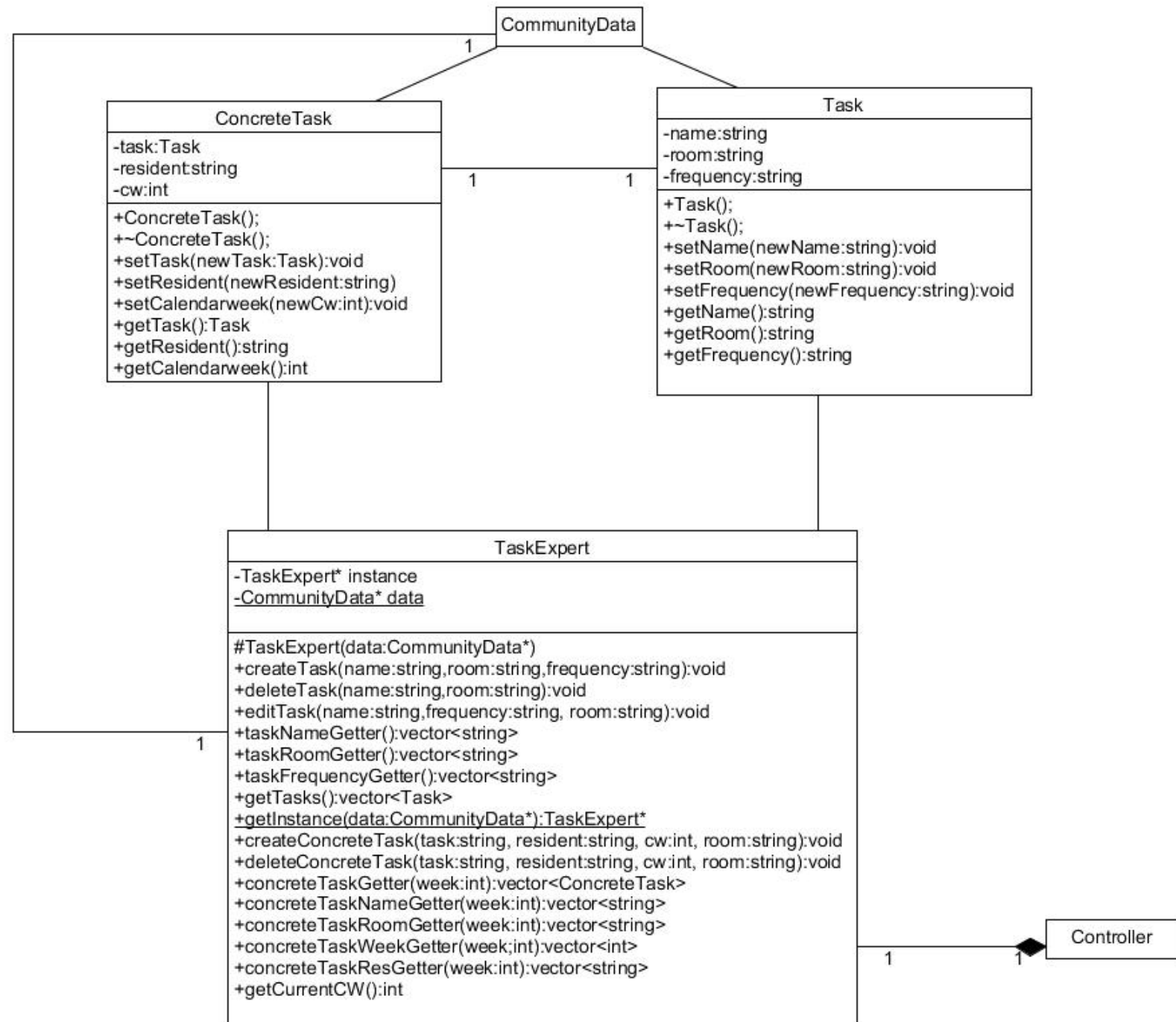
Architektur



Klassendiagramm



Klassendiagramm



Patterns

- Singleton
- (Observer)
- Information Expert = Creator
→ notwendige Informationen, Initialisierungsdaten, ...
- Low Coupling, High Cohesion
- Facade Controller (GUI und Logik)

Gui Controller

```
//SetUpRoomsEvents  
connect(rooms, SIGNAL(setNewRoomSignal()), this, SLOT(newRoomSet()));  
connect(rooms, SIGNAL(deleteRoomSignal(QString)), this, SLOT(roomDeleted(QString)));  
connect(rooms, SIGNAL(homePageCallSignal()), this, SLOT(callHomePage()));
```

```
void GuiController::roomDeleted(QString room) {  
    // delete room from Databank  
    con->deleteRoom(room.toStdString());  
    rooms->appear(con->getRoomNames(), con->getRoomArts(), con->getRoomlistSize());  
}
```

Controller

```
class Controller{
private:
    friend class GuiController;

    ResidentExpert* rsExpert;
    RoomExpert* roExpert;
    EventExpert* evExpert;
    TaskExpert* taExpert;
    ShoppingExpert* shExpert;
    Exporter* expo;

    //Singleton
    static Controller* instance;
```

```
// RoomExpert

void Controller::addRoom(std::string art, std::string name){
    roExpert->createRoom(name, art);
}

void Controller::deleteRoom(std::string name){
    roExpert->deleteRoom(name);
}

std::vector<std::string> Controller::getRoomNames() {
    return roExpert->roomNameGetter();
}

std::vector<std::string> Controller::getRoomArts() {
    return roExpert->roomArtGetter();
}

int Controller::getRoomlistSize() {
    return roExpert->getRooms().size();
}
```

Expert

```
//create a new room  
void RoomExpert::createRoom(std::string name, std::string typ){  
    Room ro;  
    ro.setName(name);  
    ro.setArt(typ);  
    data->addRoom(ro);  
}
```

Qualitätsmanagement

- Ständige manuelle Tests
- Unit Tests
- Nur kompilierbarer Code in GitLab
- Defect Tracking – Issue List in Git

communitydata.cpp (Database/src @ QtApp) [master] - Qt Creator

File Edit Build Debug Analyze Tools Window Help

Projects

- QtApp [master]
 - QtApp.pro
 - Headers
 - Sources
 - Database/src
 - communitydata.cpp
 - DatabaseConfig.cpp
 - src
 - concretetask.cpp
 - controller.cpp
 - Event.cpp
 - EventExpert.cpp
 - exporter.cpp
 - Resident.cpp
 - ResidentExpert.cpp
 - Room.cpp
 - RoomExpert.cpp
 - shoppingexpert.cpp
 - shoppingitem.cpp
 - Task.cpp
 - taskexpert.cpp
 - test
 - src
 - TestDatabaseDeleter.
 - TestEvent.cpp
 - TestResident.cpp
 - TestResidentExpert.q
 - TestRoom.cpp
 - TestRoomExpert.cpp
 - TestTask.cpp
 - main.cpp
 - userInterface/src
 - main.cpp

communitydata.cpp

```
66 //delete a room
67 void CommunityData::deleteRoom(std::string name) {
68     PreparedStatement* stmt;
69     stmt = con->prepareStatement("DELETE FROM Rooms WHERE Name = ?");
70     stmt->setString(1, name);
71     stmt->execute();
72     deleteAllTaskOfRoom(name); //delete tasks
73     //deleteRoomCleaningplan(name); //and update cleaningplan
74
75
76     delete stmt;
77 }
```

Application Output

QtApp

```
PASS : TestRoomExpert::testDeleteRoom()
PASS : TestRoomExpert::testRoomNameGetter()
PASS : TestRoomExpert::testRoomArtGetter()
PASS : TestRoomExpert::testGetRooms()
PASS : TestRoomExpert::cleanupTestCase()
Totals: 7 passed, 0 failed, 0 skipped, 0 blacklisted, 75ms
***** Finished testing of TestRoomExpert *****
***** Start testing of TestResidentExpert *****
Config: Using QTest library 5.10.1, Qt 5.10.1 (x86_64-little_endian-lp64 shared (dynamic) release build; by GCC 5.3.1 20160406 (Red Hat 5.3.1-6))
PASS : TestResidentExpert::initTestCase()
PASS : TestResidentExpert::testCreateResident()
PASS : TestResidentExpert::testDeleteResident()
PASS : TestResidentExpert::testEditResident()
PASS : TestResidentExpert::testVerifyLogInData()
PASS : TestResidentExpert::testVerifyName()
PASS : TestResidentExpert::testUserNameGetter()
PASS : TestResidentExpert::testCurrentUser()
PASS : TestResidentExpert::cleanupTestCase()
Totals: 9 passed, 0 failed, 0 skipped, 0 blacklisted, 109ms
***** Finished testing of TestResidentExpert *****
/home/eleanor/Privat/studium/SWP/myCommunity/build-QtApp-Desktop_Qt_5_10_1_GCC_64bit-Debug/myCommunity-test exited with code 0
```

1 Issues 3 Application Output 4 Compile Output 5 Debugger Console 6 General Messages 8 Test Results






Menu

eleanor@sweetiebo... communitydata.cpp ...

16% (0:39) 09:15

User Erstellen, Verwalten, Löschen

Test-Verlauf

Test durchgeführt am	Erfolgreich	Tester
11.06.2018		Noor
17.06.2018		Noor
18.06.2018		Stephi
18.06.2018		Beni
25.06.2018		Stephi

Test Beschreibung

1. MyCommunity starten.
2. "Sign Up" Button klicken.
3. Auf "Speichern" Button klicken.
4. Fehlermeldung sollte erscheinen.
5. Beliebigen Namen eingeben.
6. Auf "Speichern" Button klicken.
7. Fehlermeldung sollte erscheinen.
8. Versuchen Buchstabe oder Sonderzeichen als Passwort einzugeben.
9. Kein Zeichen sollte in der Passwort-Eingabe erscheinen.

Open 5 Closed 31 All 36



New Issue



Search or filter results...

Last created ▾



Calendarweek accepts no input

#36 · opened 6 days ago by Stephi Mennle **Bug**

CLOSED 0

updated 3 days ago



performance database needs to be improved

#35 · opened 6 days ago by Stephi Mennle **Enhancement**

CLOSED 0

updated 3 days ago



User Login isnt case sensitive

#34 · opened a week ago by Benjamin Bauer **Bug**

CLOSED 0

updated a week ago



Entering false oldPassword cause crash!

#33 · opened a week ago by Noor Alrabea **Bug**

CLOSED 0

updated a week ago



Error listed in Einkaufliste, when no amount specified!

#32 · opened a week ago by Noor Alrabea **Bug**

CLOSED 0

updated a week ago



After log Out.. Event History is not reseted!

#31 · opened a week ago by Noor Alrabea **Bug**

CLOSED 1

updated a week ago



Edit Event is still not working!

#30 · opened a week ago by Stephi Mennle

CLOSED 1

updated a week ago

51.15.56.80/oth-project/myCommunity/issues/new?issue[assignee_id]=&issue[milestone_id]=

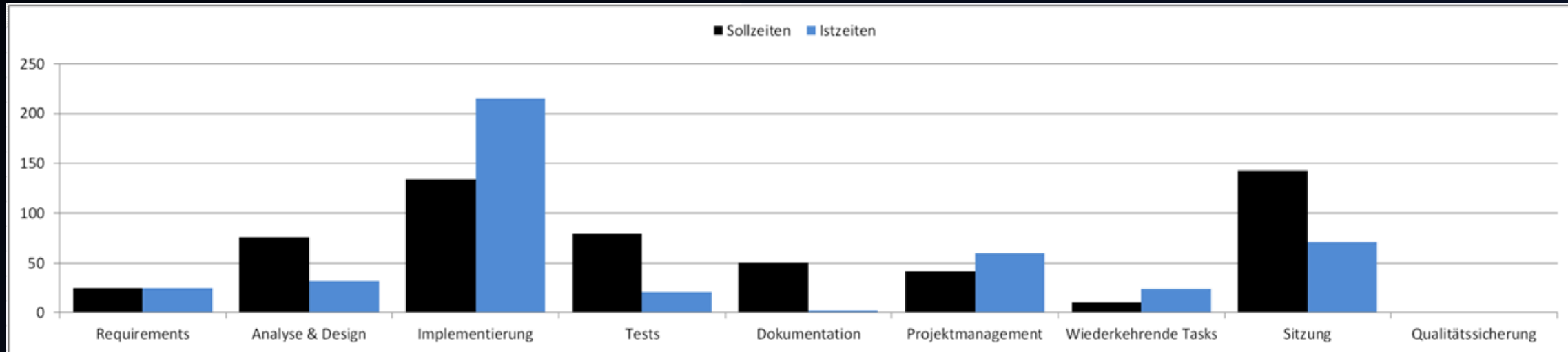
CLOSED 0

Statistiken

- Anzahl Klassen insgesamt: 47
 - Logik: 13
 - GUI: 25
 - Datenbank: 2
 - Test: 7
- Lines of Code: 5920

Zeiterfassung

- Statistik insgesamt



Projektverlauf

- Verteilung der Verantwortlichkeiten
- Hauptsächlich Teamarbeit und Pair Programming
- Gute Kommunikation und Zusammenarbeit

Probleme

- Zeiteinschätzung / Arbeitspakete
- VM (Linux/Mac/Windows)
- Datenbank
- GUI-getriebene Programmierung
- Kleine Fehler führen zu großem Zeitverlust
- Absturz GitServer