

Praxis der Software Entwicklung: Visualizing Trends. Was verrät uns Twitter?

Donnerstag, 12.03.2015

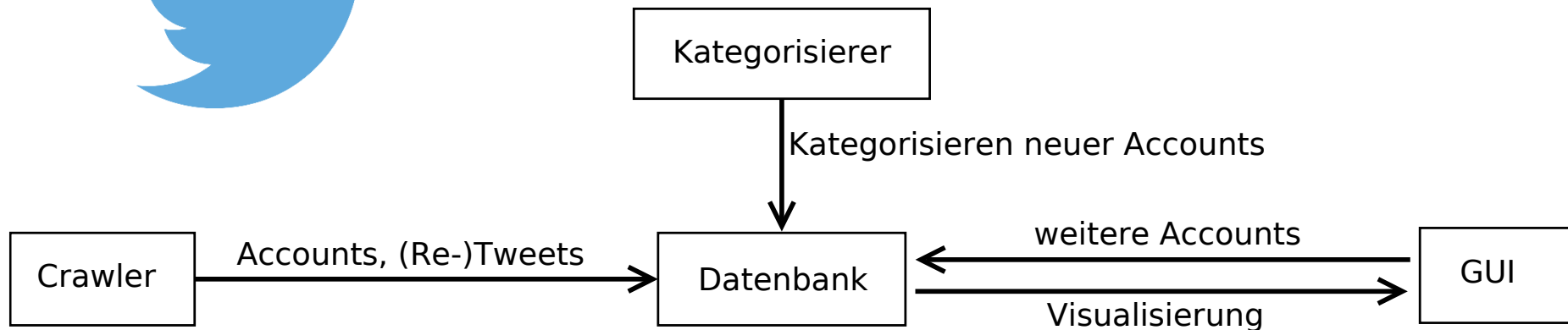
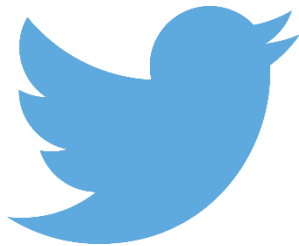


Gliederung

1. Aufgabenstellung
2. Entwurf
3. Implementierung
4. Validierung
5. Fazit

1. Aufgabenstellung

- *Sammeln* von Tweets mittels der Twitter-API
- *Auswertung* durch austauschbare Analysekomponenten
- *Visualisierung* der Analyse-Ergebnisse in einer graphischen Oberfläche



2. Entwurf (Datenbank)

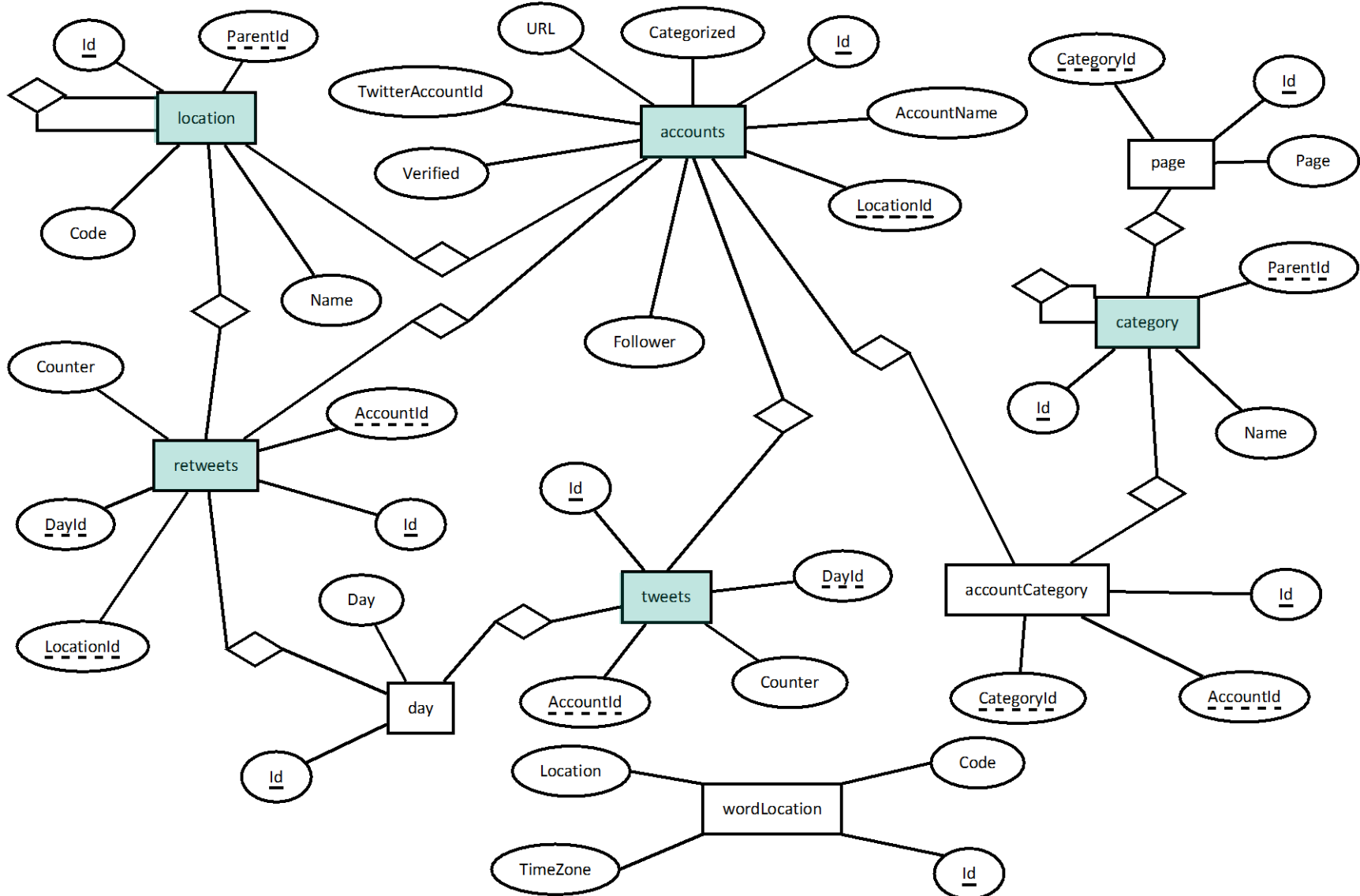
Accounts

Location

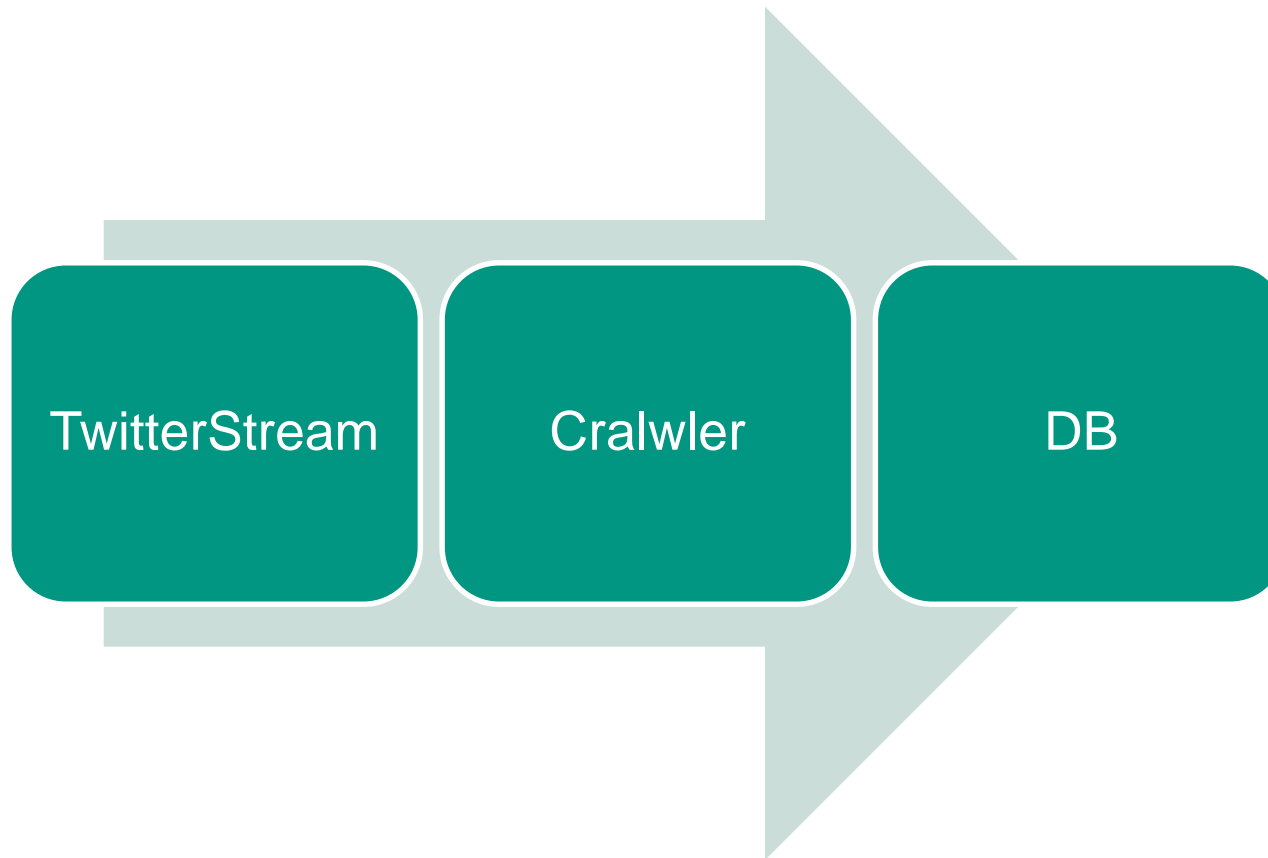
Category

Tweets / Retweets

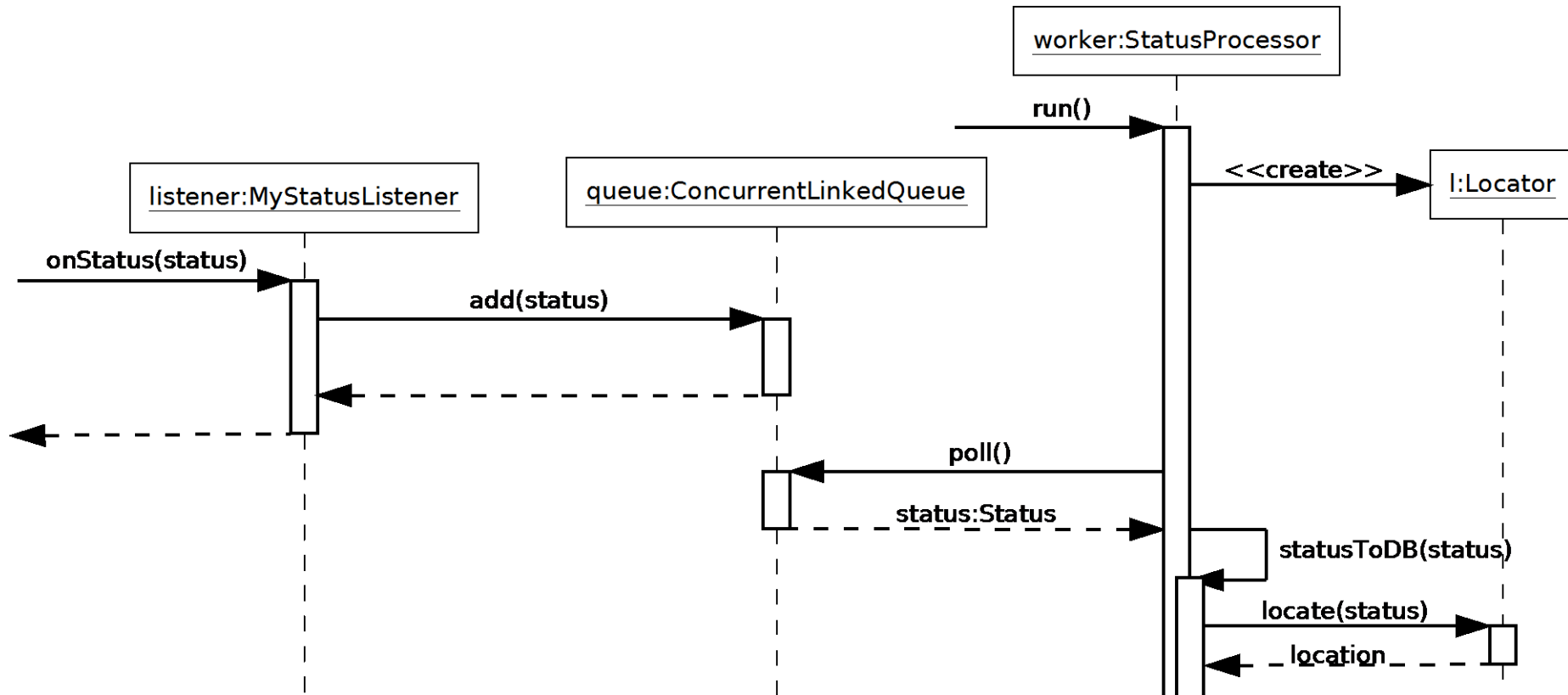
2. Entwurf (Datenbank)



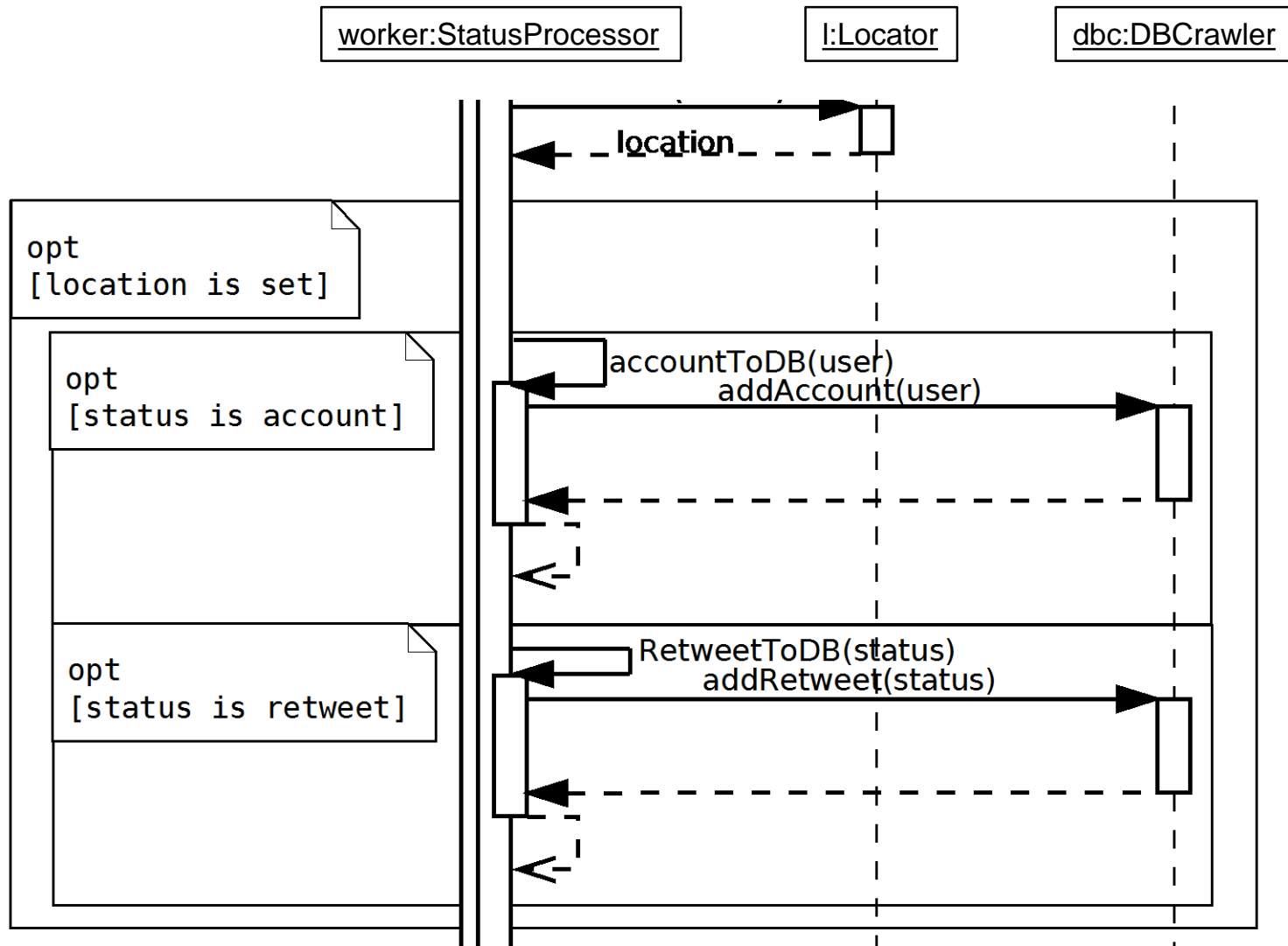
2. Entwurf (Crawler)



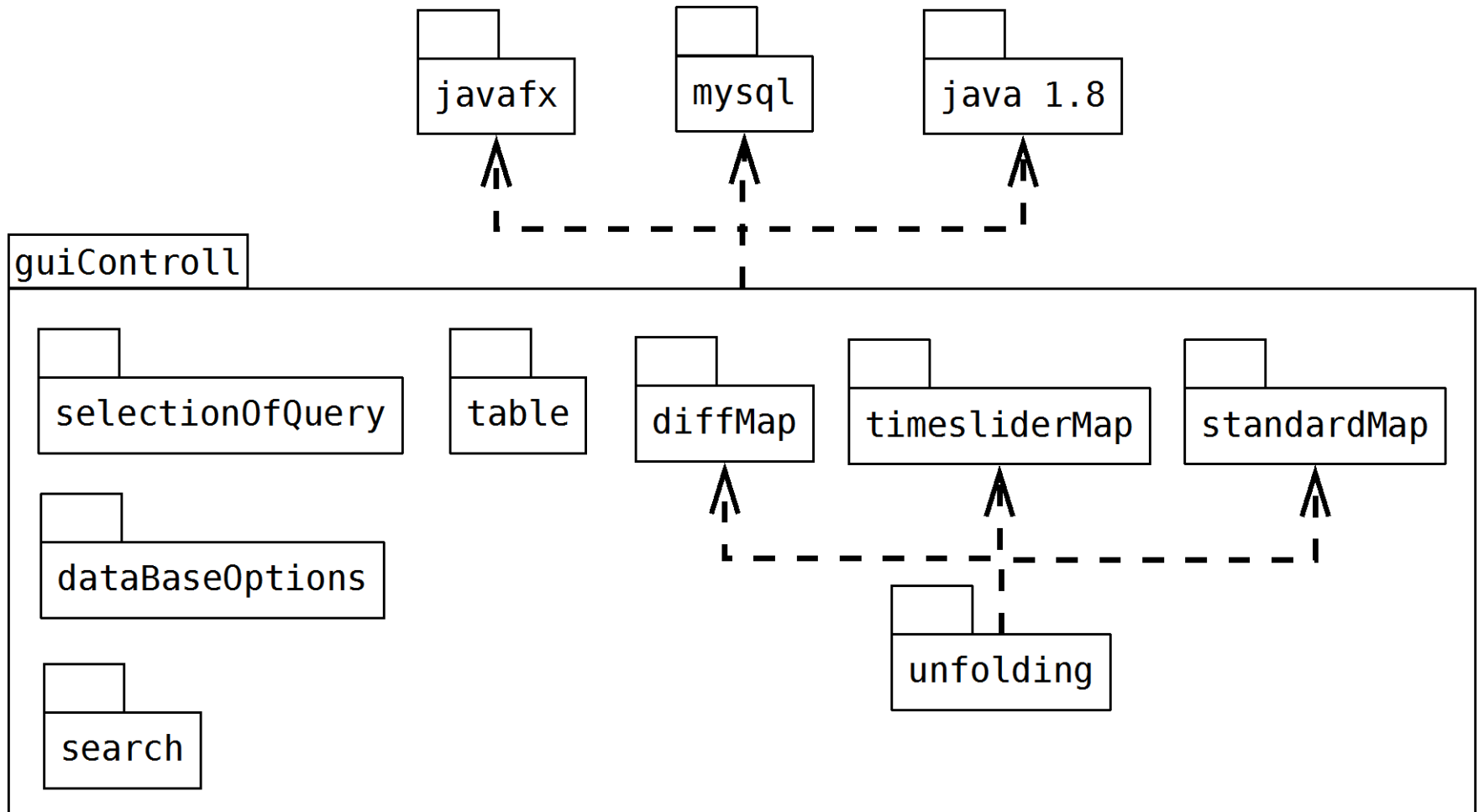
2. Entwurf (Crawler)



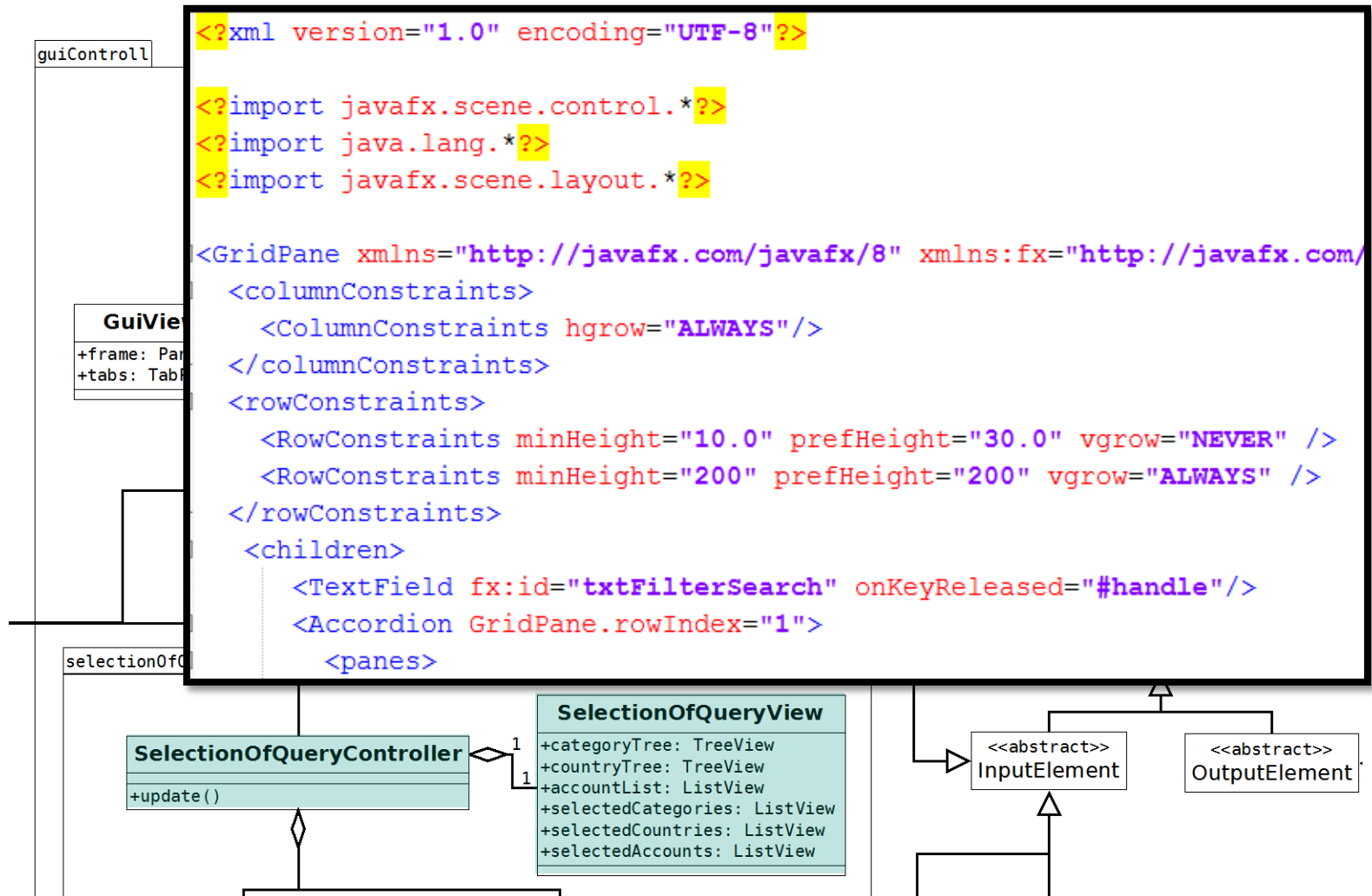
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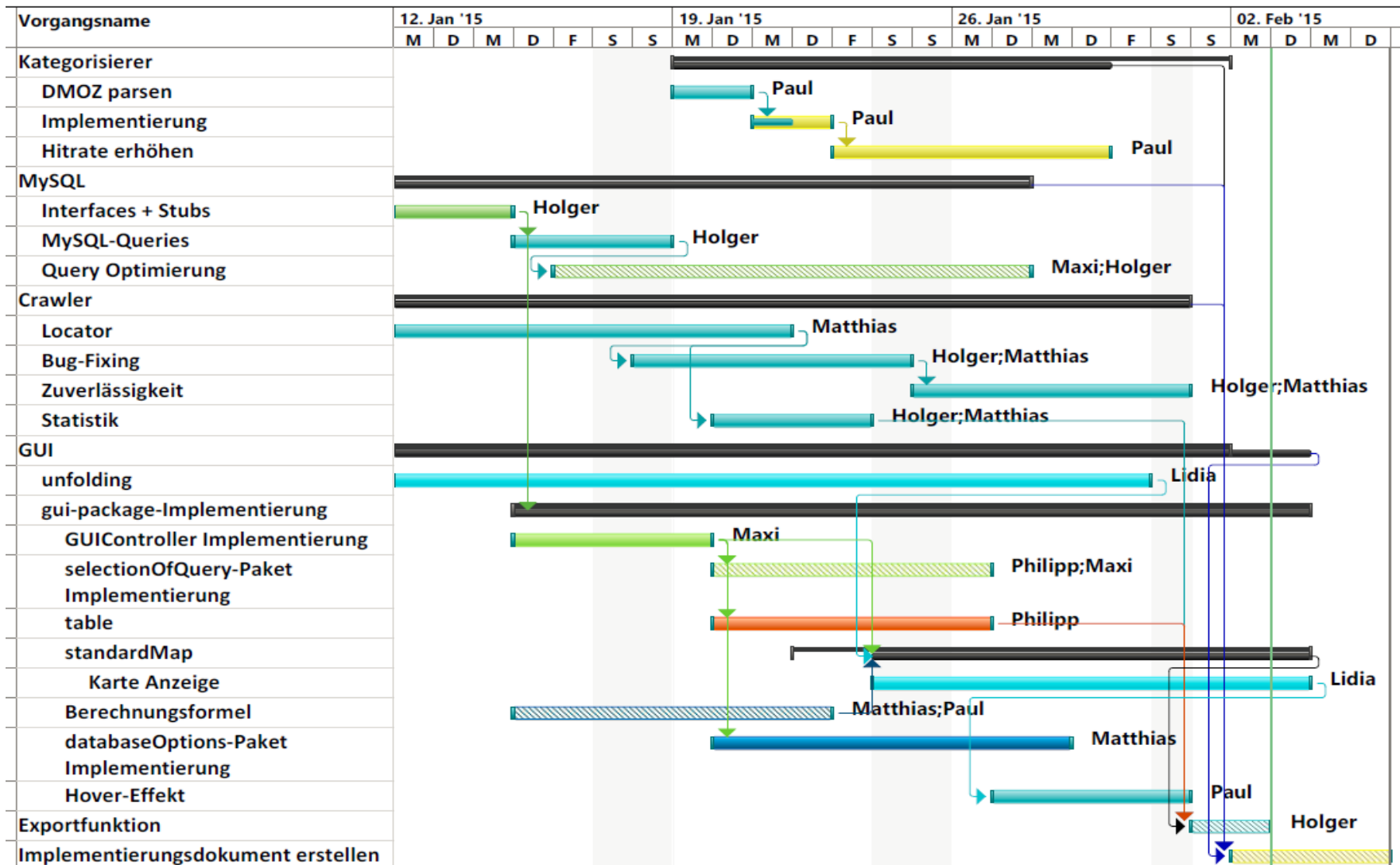
2. Entwurf (GUI)



2. Entwurf (GUI)



3. Implementierung



4. Validierung

- Checkstyle
- JUnit

gui.table	<div><div></div></div>	99,4 %
> ContentTableController.java	<div><div></div></div>	100,0 %
> InternAccount.java	<div><div></div></div>	97,2 %
unfolding	<div><div></div></div>	86,5 %
> MyUnfoldingMap.java	<div><div></div></div>	86,6 %
> MyDataEntry.java	<div><div></div></div>	86,2 %
gui	<div><div></div></div>	76,3 %
> InputElement.java	<div><div></div></div>	100,0 %
> OutputElement.java	<div><div></div></div>	100,0 %
> PPPPRunnable.java	<div><div></div></div>	100,0 %
> PPRunnable.java	<div><div></div></div>	100,0 %
> PRunnable.java	<div><div></div></div>	100,0 %
> GUIElement.java	<div><div></div></div>	97,0 %
> InfoRunnable.java	<div><div></div></div>	95,8 %
> Util.java	<div><div></div></div>	92,1 %

```

@Test
public void testSubscribe() throws InterruptedException {
    TestGUIElement e = new TestGUIElement();
    guiController.subscribe(e);
    guiController.setDontLoadFromDB(true);
    Thread.sleep(1000);
    assertTrue(e.isUpdated());
    guiController.setDontLoadFromDB(false);
}

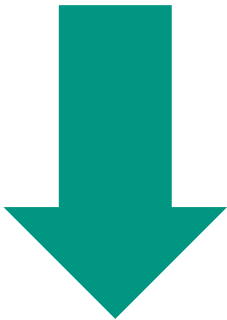
```

5. Fazit

Organisation

- Git
- Treffen / Videokonferenzen

Wasserfallmodell



Beobachter Muster in GUI

- leicht erweiterbar
- Entkoppelung einzelner Komponenten
- Änderungen unproblematisch



„Prototyp“ zu jeder Phase

- Problem: unfolding ⇔ JavaFX

