



Final Presentation

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Simon Knab

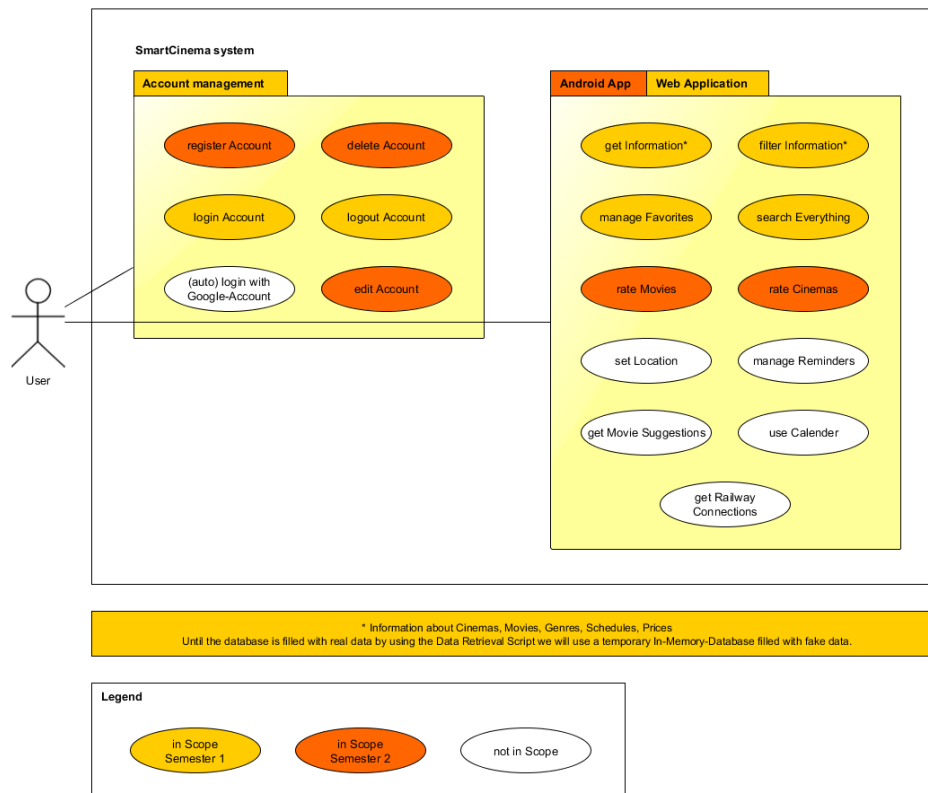
Vision

- ▶ Alle relevanten Film- und Kino-Informationen für meine Umgebung an einem Ort!
- ▶ Verfügbar als Android App und Web-Anwendung!

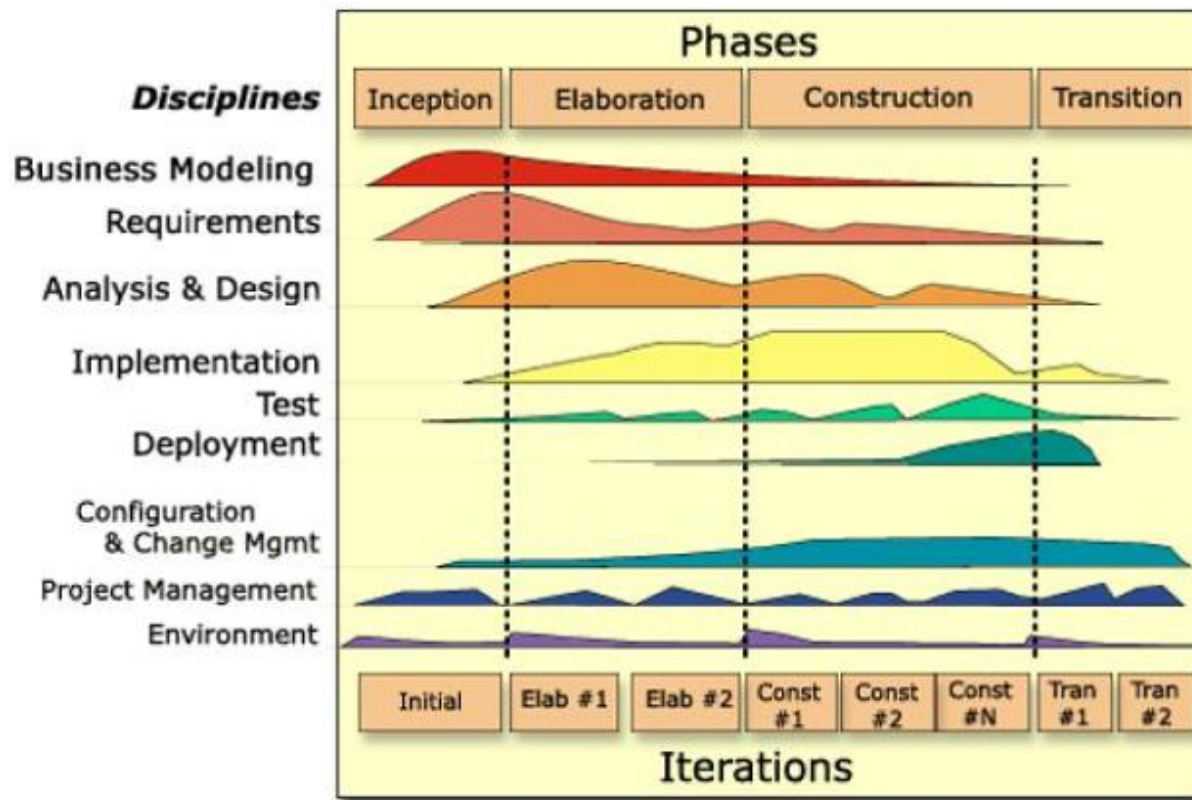
Anforderungen

- ▶ Alle Informationen sind up-to-date
 - ▶ Ein Datensatz
- ▶ Kurze Wartezeiten
 - ▶ Weniger als eine Sekunde
- ▶ 99% Uptime
- ▶ Wartungsarbeiten beeinflussen nicht den laufenden Betrieb

Scope & Use-Cases



Projekt Methodik (RUP)



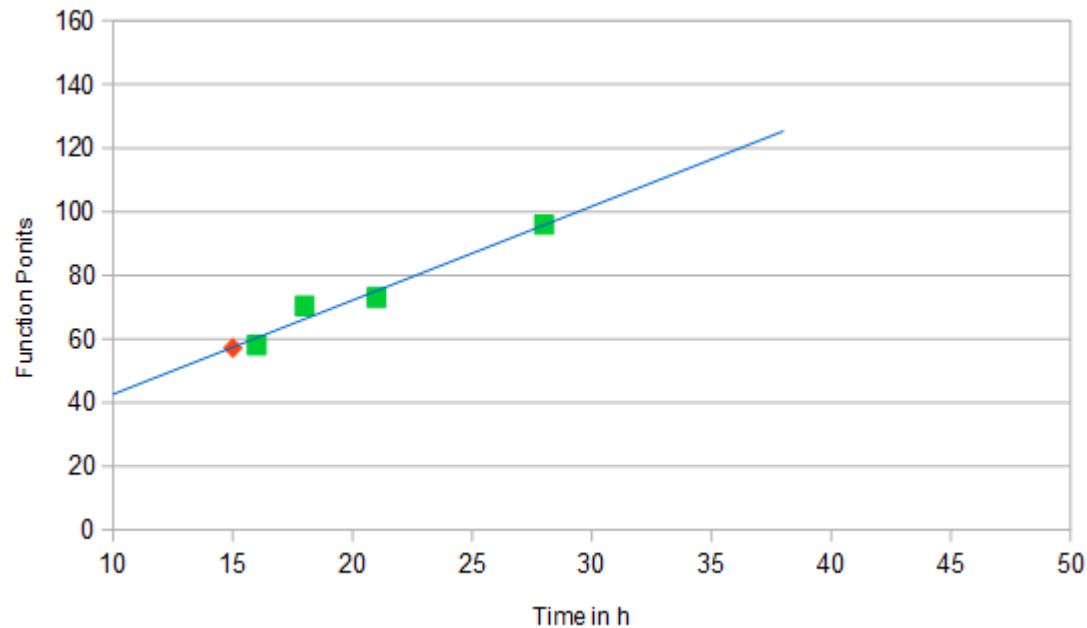
Projekt Management

- ▶ Kurzfristige Planung
 - ▶ Jira
- ▶ Langfristige Planung
 - ▶ MS-Project



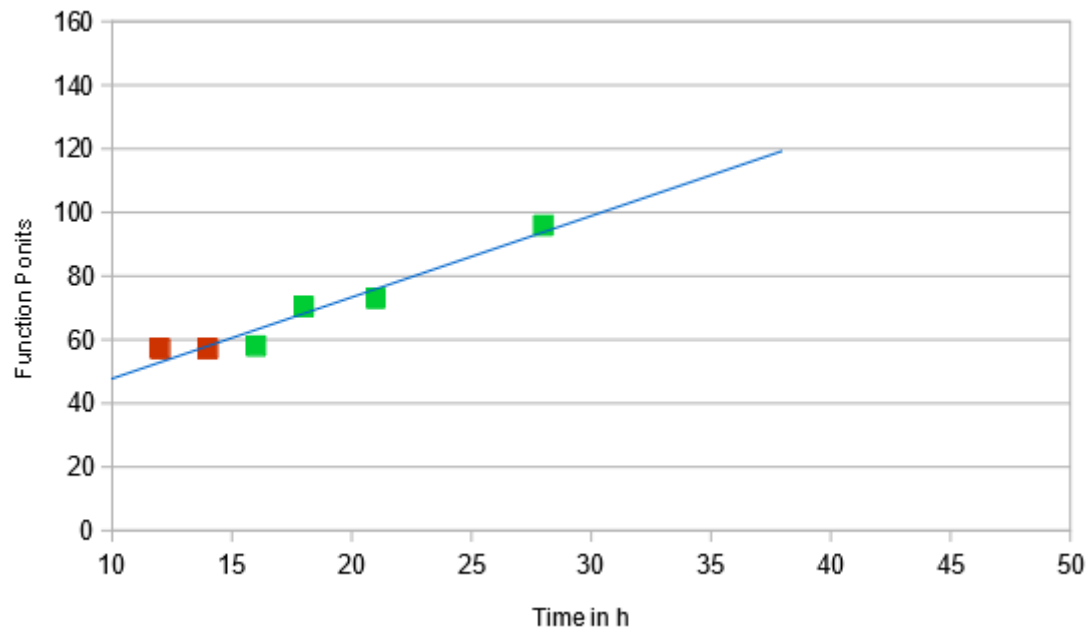
Kostenschätzung

► Zeitabschätzung mit Function Points - Vorher



Kostenschätzung

▶ Zeitabschätzung mit Function Points - Nachher



Risiko Management

SmartCinema – Risk List

Risk Name	Risk Description	Probability of Occurrence	Risk Impact	Risk Factor	Mitigation	Person in Charge of Tracking
Unrealistic time planning	Time planned for the tasks is underestimated	0,9	0,9	0,81	More time for planning	Marco
Missing correctness check	Nobody reviews the code of the others team members	0,7	0,8	0,56	Critical Code has to be reviewed in a pull request, may not be merged otherwise. Maybe enforce this on Github.	Jonas
Exams	The preparation for the exams takes too much time	0,5	0,75	0,375	Start learning earlier to make room for late project work	Chris
Extensive Homework	No time for project because homework takes too much time	0,8	0,4	0,32	Talk to prof	Simon
Communication Problems	Team members don't talk about problems or tasks	0,35	0,8	0,28	Regular Meetups	Jonas
Illness	Some group members are temporarily unable to work	0,4	0,7	0,28	Make sure no tasks are blocked by single persons	Marco
Deprecated Tools	A third-party tool is deprecated	0,8	0,2	0,16	Select tools in such a way that we can continue using them even if the vendor goes bankrupt.	Chris
Hardware Failure	Notebooks, Server etc breaks	0,2	0,8	0,16	Make sure our application can run on about any replacement machine	Simon
Distracted Team Members	Team members are distracted during meetings	0,8	0,2	0,16	Make meetings shorter	Jonas
wrong use case implementation	the developer misunderstand the requirements	0,2	0,4	0,08	Early reviews	Marco

Versionierung

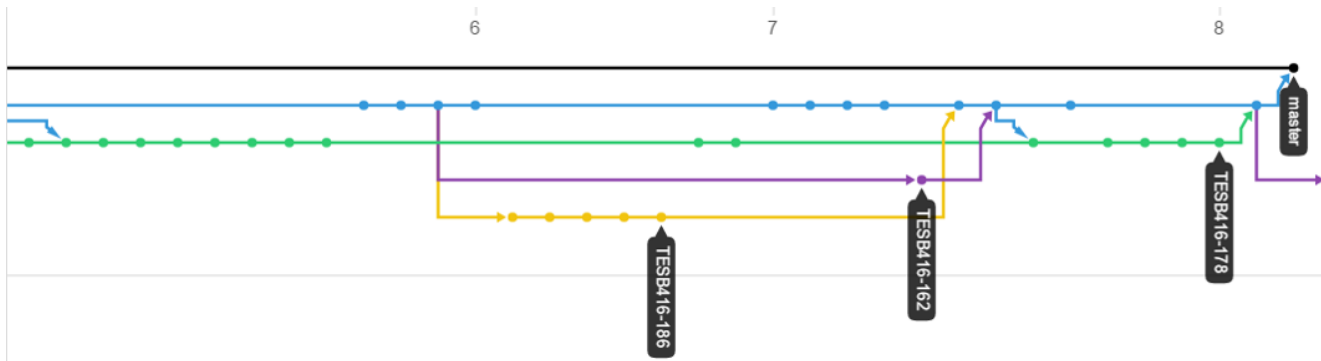
- ▶ GIT / github.com

- ▶ <https://github.com/tinf15b4-kino/kino-web>



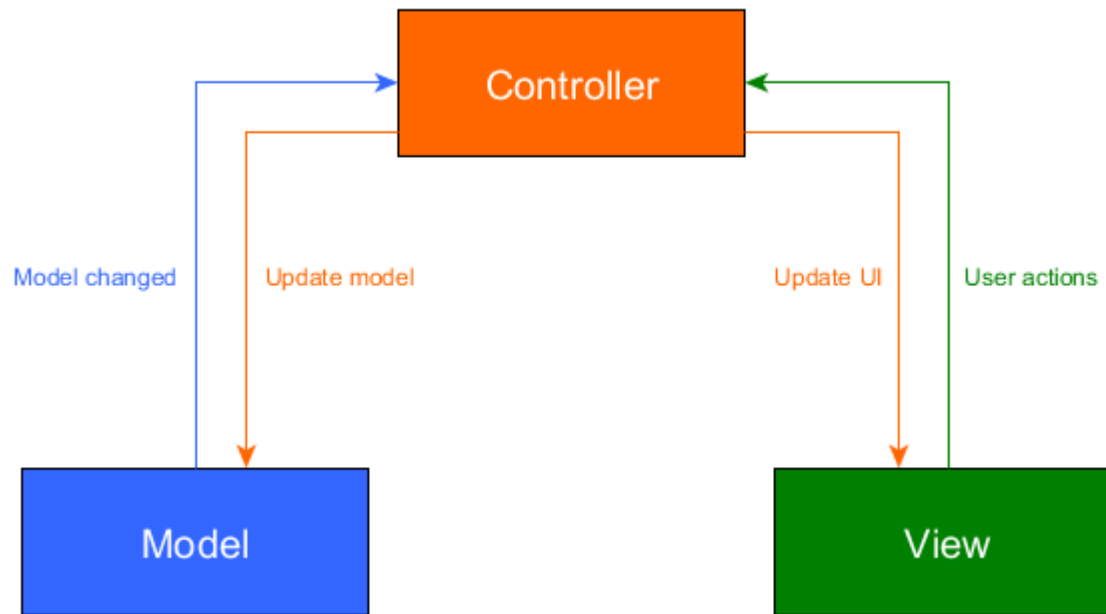
Versionierung

► Ausschnitt aus unserem GIT-Repository



Software-Architektur

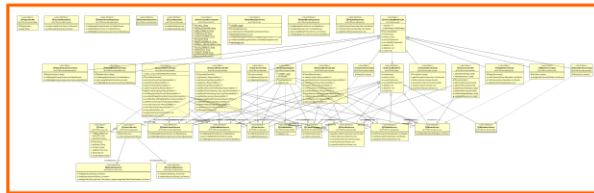
► MVC



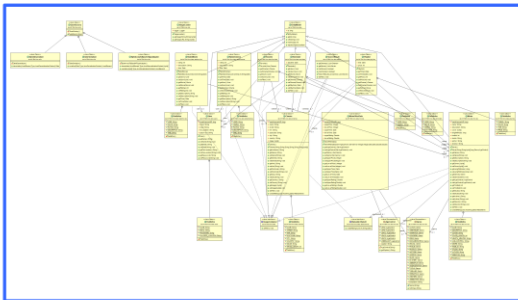
Software-Architektur

► MVC

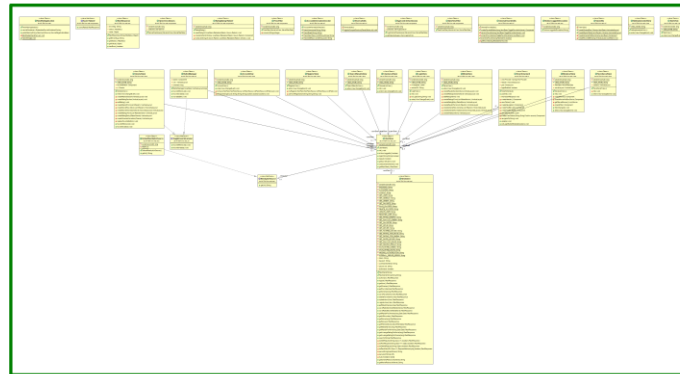
Controller



Model



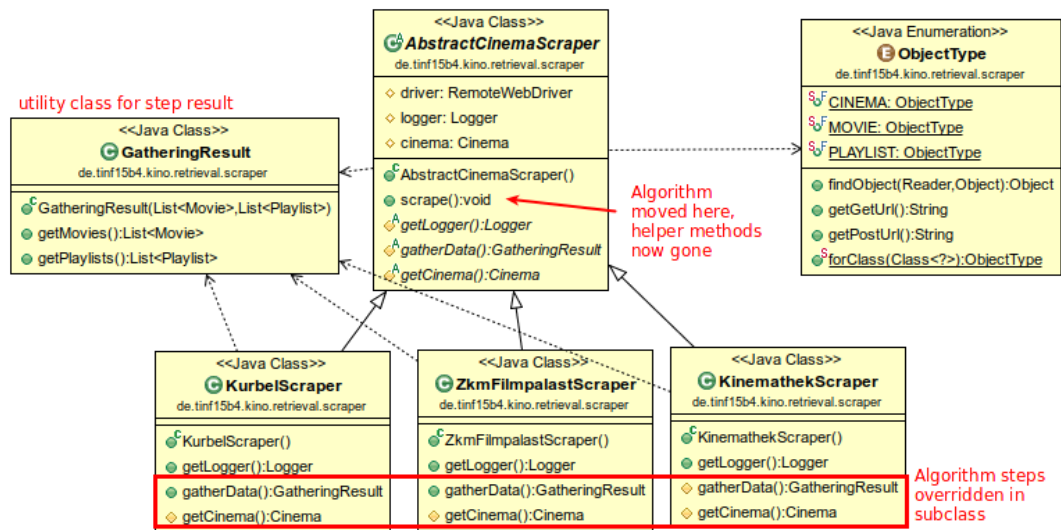
View



Software-Architektur

► Patterns

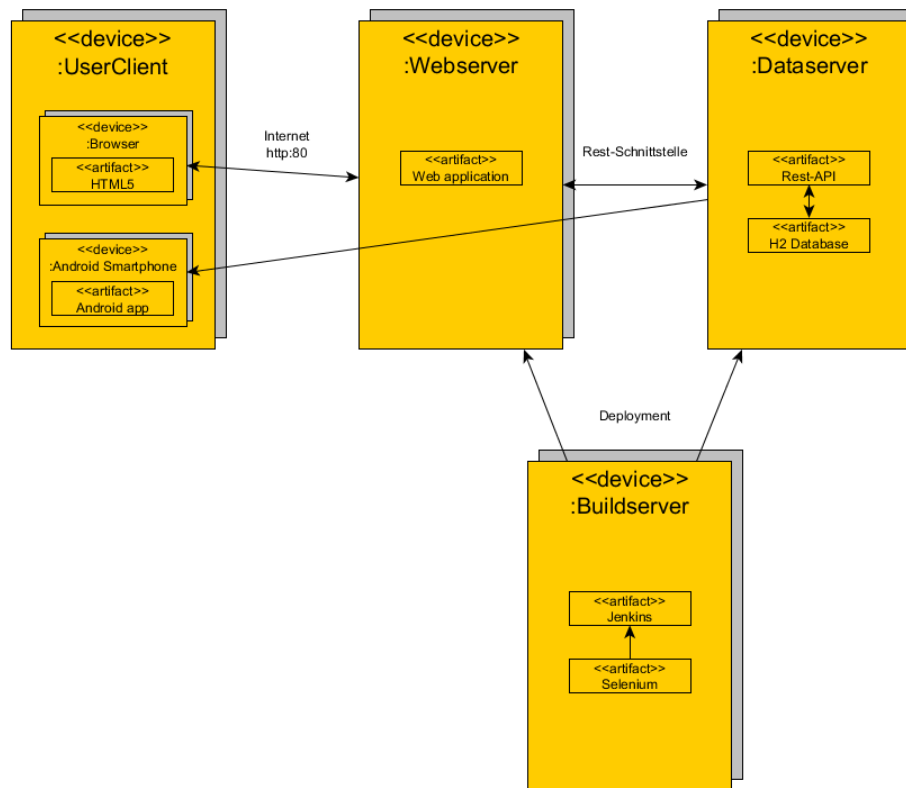
► Template method pattern (Schablonenmethode)



Frameworks



Deployment View



Continuous Integration

► Deployment Tool

► Jenkins

► <https://jenkins.genosse-einhorn.de/>



Branches (60)				
S	W	Name	Letzter Erfolg ↑	Letzter Fehlschlag
🌐	☀️	develop	1 Stunde 6 Minuten - #162	7 Stunden 5 Minuten - #159
🌐	☀️	master	7 Stunden 2 Minuten - #13	Unbekannt
🌐	☀️	TESB416-63	15 Stunden - #13	2 Tage 1 Stunde - #10
🌐	☀️	TESB416-75	6 Tage 4 Stunden - #2	6 Stunden 55 Minuten - #3
🌐	☀️	TESB416-78	6 Tage 13 Stunden - #1	Unbekannt

Continuous Integration

▶ Testing

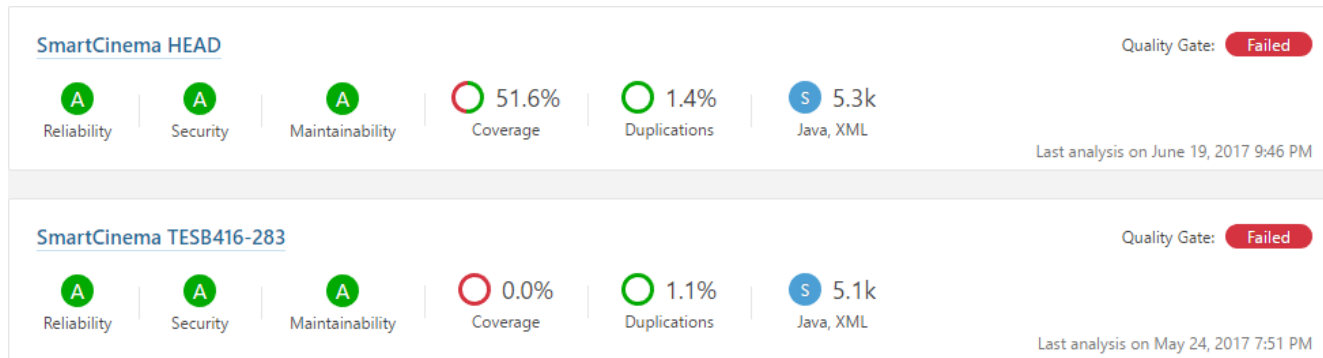
- ▶ Unit Testing mit JUnit
- ▶ Functional Tests mit Cucumber/Selenium
- ▶ Load Tests mit Apache Bench Tool

Continuous Integration

► Metriken

► Sonarqube

- <https://sonarcloud.io/dashboard?id=de.tinf15b4.kino%3AHEAD>



Live Demo

► <https://smartcinema.tinf15b4.de/>



Vielen Dank für Ihre
Aufmerksamkeit!