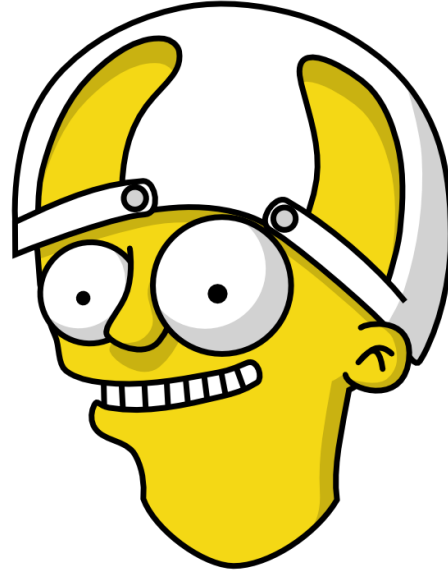


NAPPY, THE INGENIOUS



NAPPYDEVELOPMENT

VON MANUEL BOTHNER, MARC MAHLER,
MARVIN ZERULLA UND MEHMET ALI INCEKARA

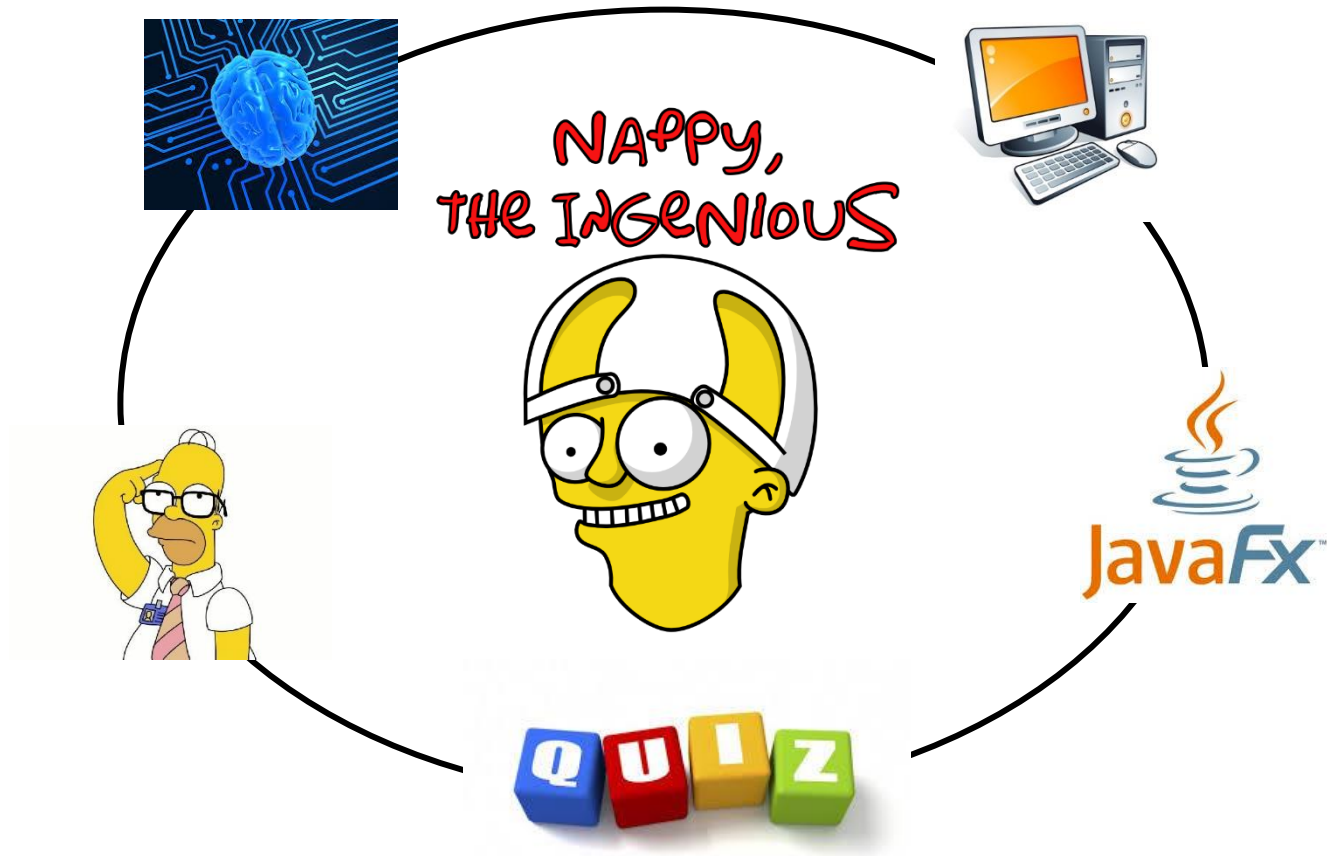
AGENDA

1. Wer ist nappydevelopment
2. Vision & Scope
3. Software Requirements Specification
 1. Use Case's
 2. Non-functional Requirements
4. Project Management
 1. RUP
 2. Function Points
 3. Scrum
5. Quality Assurance
 1. Environment, Integration andAutomation
 2. Riskmanagement
 3. Testing
 4. Metrics
6. Technical Ability
 1. Architecture
 2. Class Diagram
 3. Patterns
 4. Demo

WER IST NAPPYDEVELOPMENT?

Discipline	Team member
Business Modeling	Marc Mahler and Manuel Bothner
Requirements	Mehmet Ali Incekara
Analysis and Design	Marvin Zerulla and Manuel Bothner
Implementation	nappydevelopment
Test	nappydevelopment
Deployment	Marvin Zerulla and Mehmet Ali Incekara
Project Management	Mehmet Ali Incekara
Environment	Marc Mahler and Manuel Bothner
Configuration and Change Managment	Marvin Zerulla and Mehmet Ali Incekara

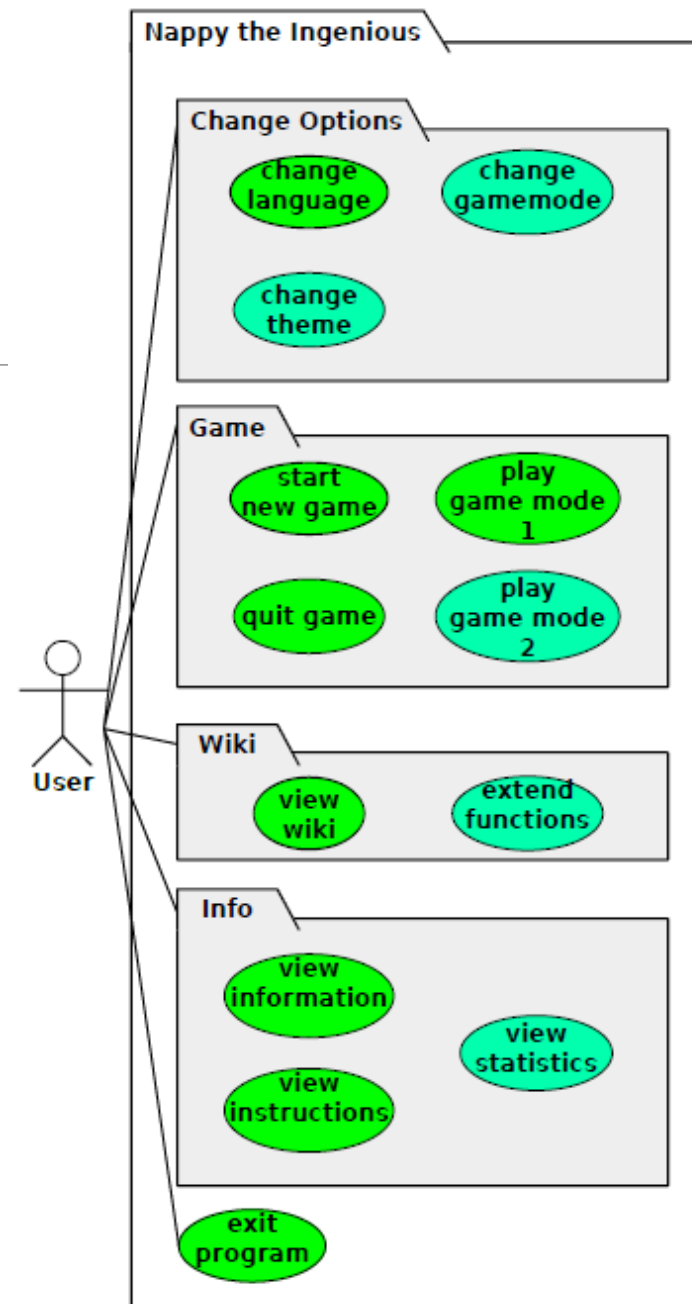
VISION & SCOPE



Software Requirements Specification

USECASE DIAGRAM & USECASE'S

1. UseCase: Gamemode 1
2. UseCase: View Wiki
3. UseCase: View Instruction
4. UseCase: Change Settings
5. UseCase: View Info
6. UseCase: Gamemode 2
7. UseCase: Extend Wiki
8. UseCase: View Statistic
9. UseCase: Extend Settings

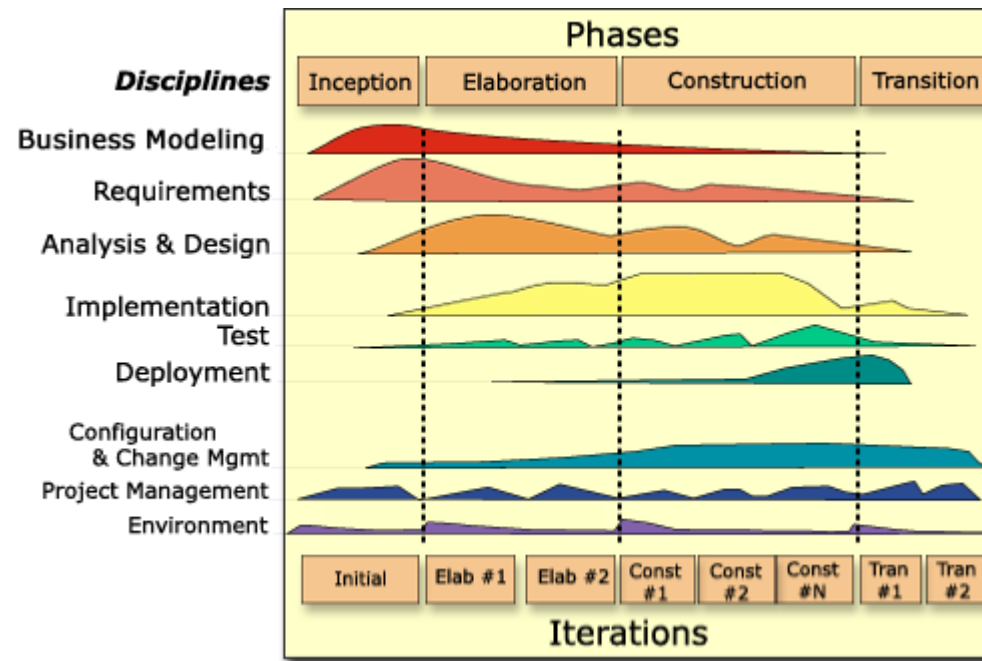


NON-FUNCTIONAL REQUIREMENTS

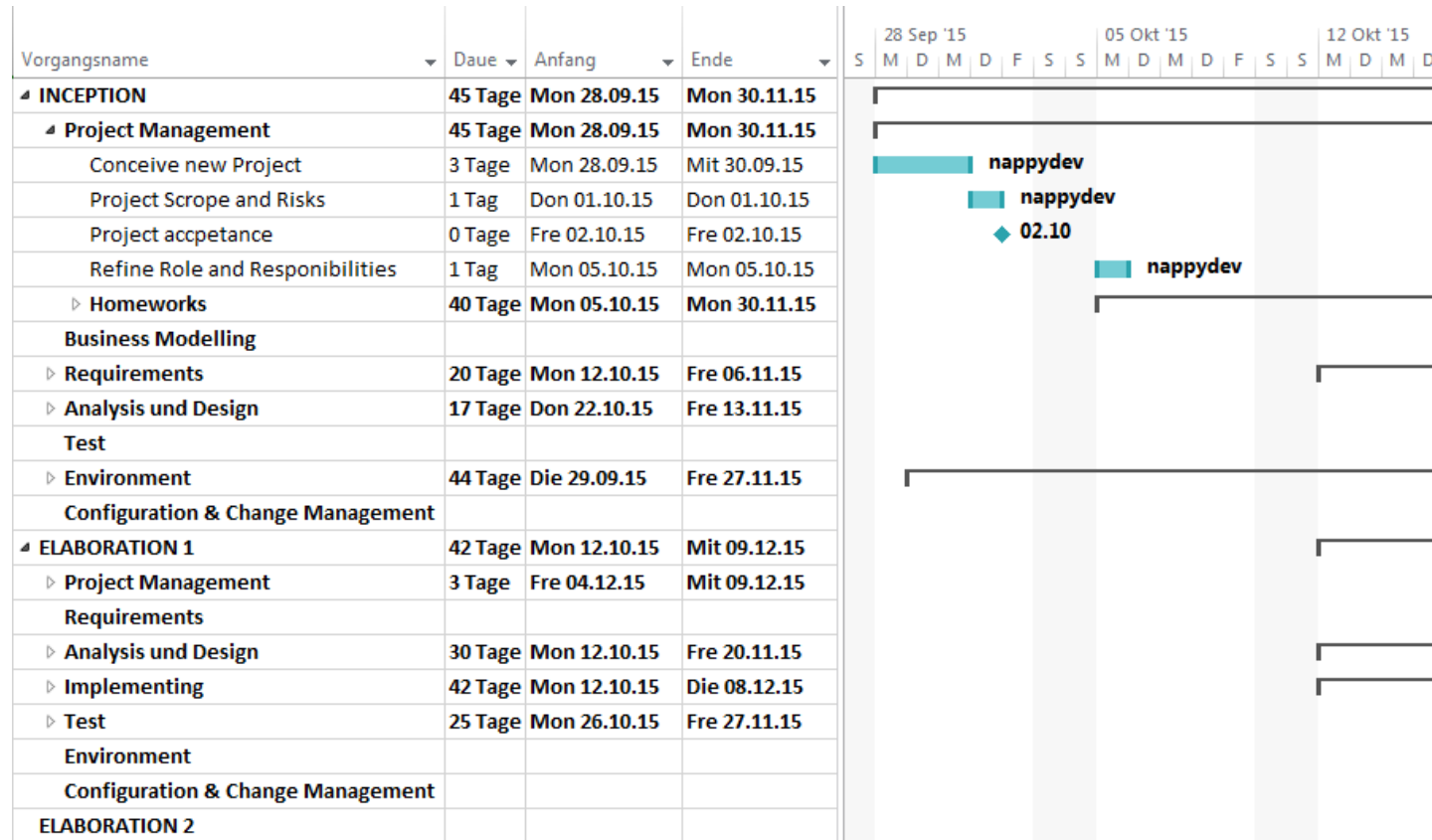
- Plattformunabhängigkeit
- vollständig Offline lauffähig
- Antwortzeiten
 - Startzeit: ~5 Sekunden
 - Nach Start: ~0,5 Sekunden
- Testabdeckung
 - Insgesamt > 50%
- 100 spielbare Figuren

PROJECT MANAGEMENT

RUP

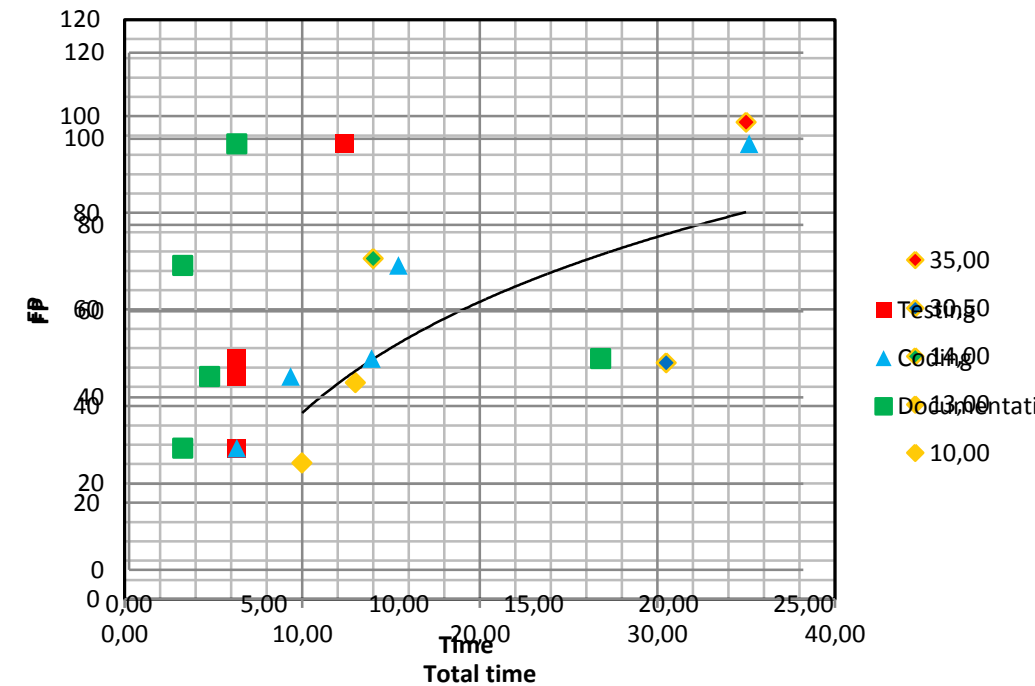


GANTT-CHART



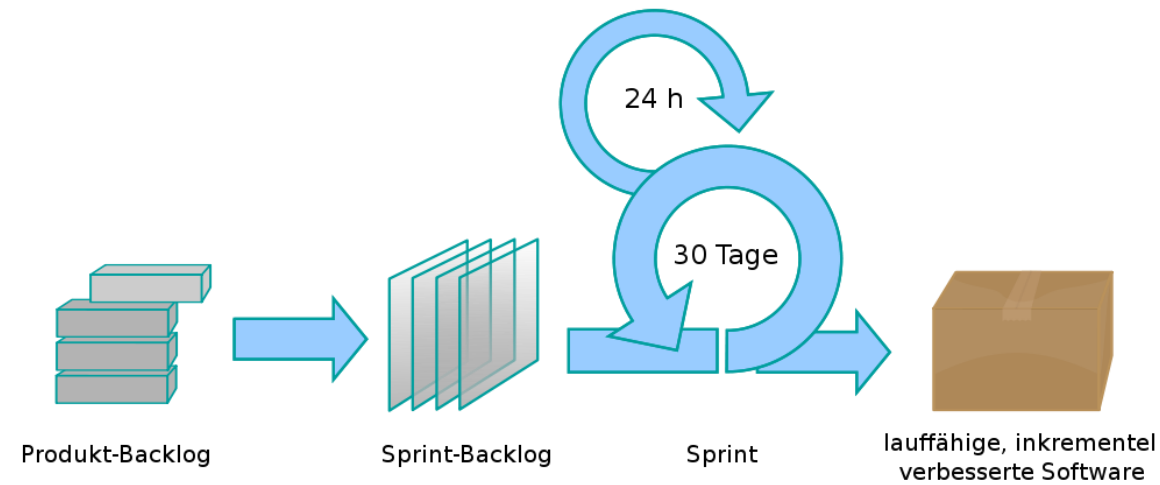
FUNCTION POINTS

UC	UC Name	Documentation	Coding	Testing	Total	FP	Estimated time according to FP
1	Gamemode 1	4,00	23,00	8,00	35,00	98,77	n/a
2	View Wiki	17,50	9,00	4,00	30,50	48,97	n/a
3	View Instruction	2,00	10,00	2,00	14,00	70,55	n/a
4	Change Settings	3,00	6,00	4,00	13,00	44,82	n/a
5	View Info	2,00	4,00	4,00	10,00	28,22	n/a
SEMESTERBREAK							
6	Gamemode 2	3,00	29,50	1,50	36,00	88,81	35,00
7	Extend Wiki	2,00	20,00	1,00	24,00	68,89	25,00
8	View Statistic	2,00	16,50	1,50	20,00	42,33	10,00
9	Extend Settings	1,50	5,50	0,50	7,50	22,41	6,00



SCRUM

- Vorgehensmodell in der agilen Softwareentwicklung



JIRA



✓ Inception 6 Vorgänge

0 0 1w 3d 6h

23/Nov/15 12:51 PM • 07/Dez/15 12:51 PM



↑ NAP-32 UseCase Gamemode 1	UC Gamemode 1	2d 2h
↑ NAP-33 UseCase View Wiki	UC View Wiki	3d 6h
↑ NAP-34 UseCase View Instruction	UC View Instruction	4h
↑ NAP-35 UseCase Change Settings	UC Change Settings	1d 1h
↑ NAP-36 UseCase View Info	UC View Info	5h
↑ NAP-56 Project Management: Update SRS, SRD, ...		4h



Nappy / [NAP-32](#)



UseCase Gamemode 1

Schätzung: 2d 2h

Verbleibend: 2d 7h 30m ▾



Unteraufgaben

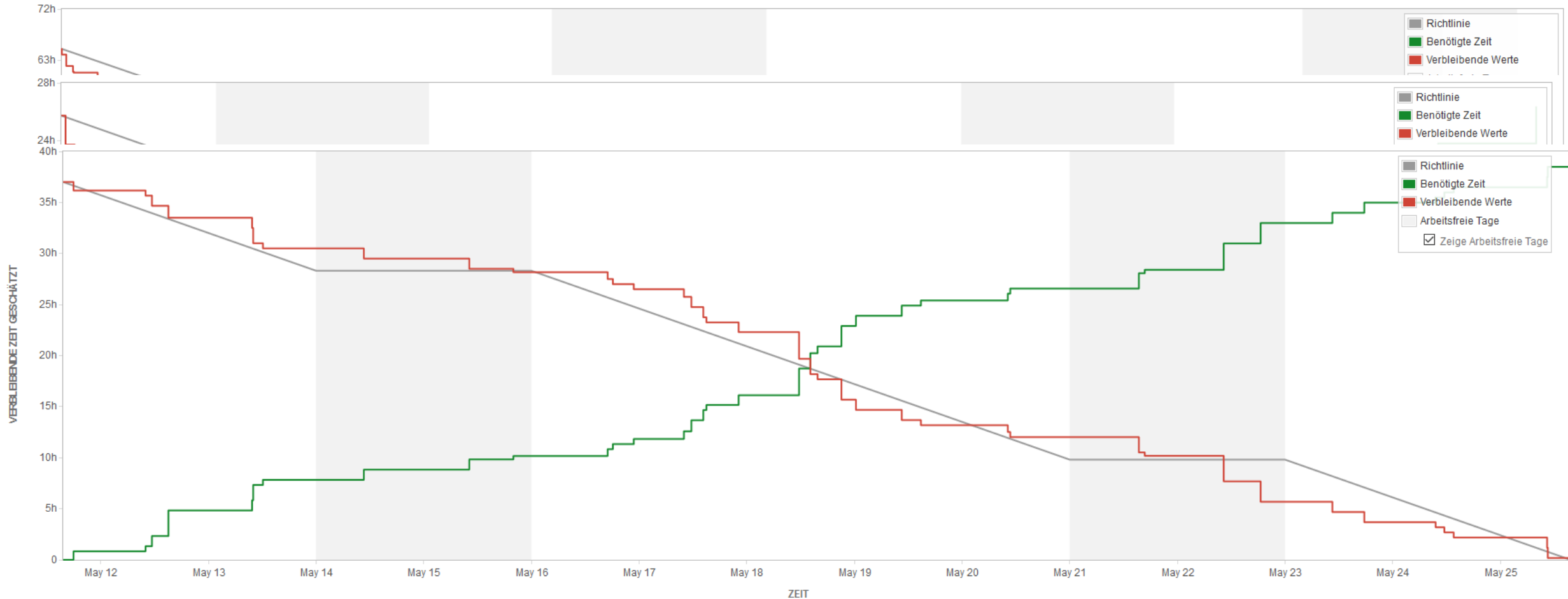
Unteraufgabe erstellen



Vorgangsschlüssel	Zusammenfassung	Status	▼
NAP-37	Write UseCase (Gamemode 1)	FERTIG	
NAP-38	Implement GUI (Gamemode 1)	FERTIG	

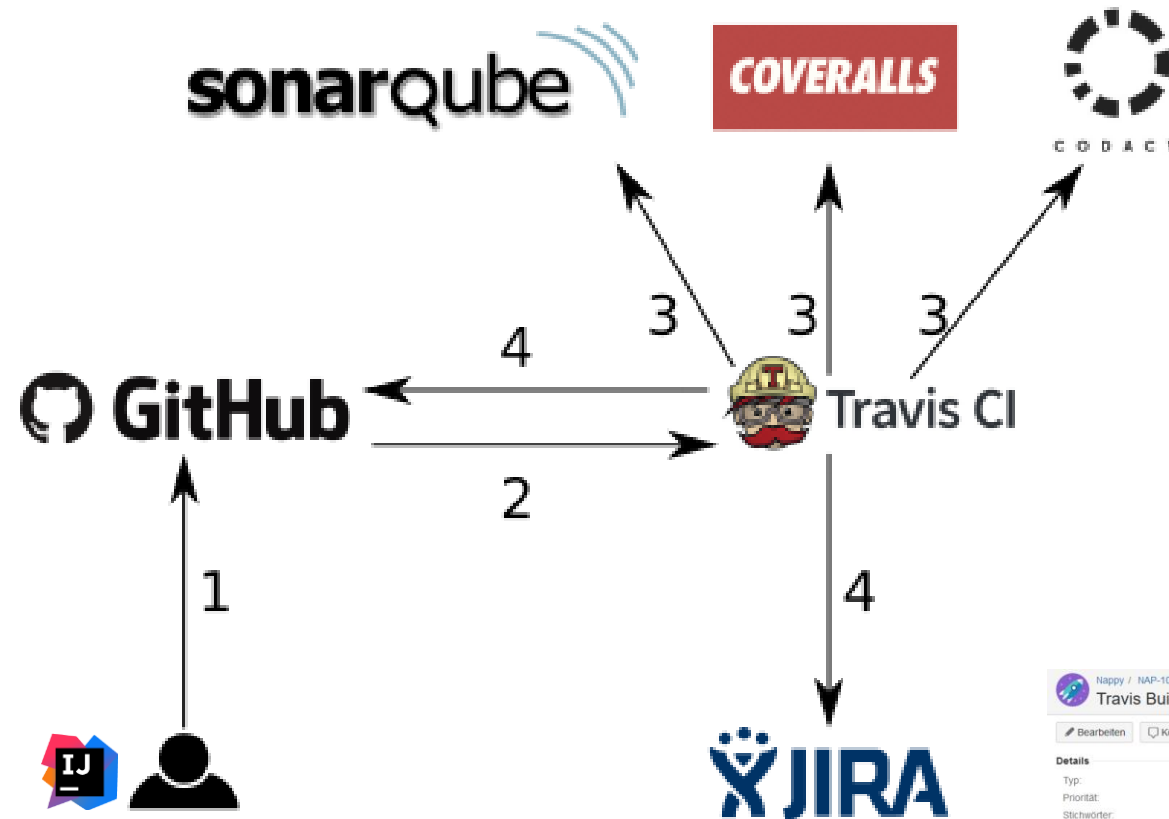
<http://193.196.7.27:8080/secure/RapidBoard.jspa?rapidView=8&projectKey=NAP&view=planning.nodetail>

BURNDOWN-DIAGRAMM



QUALITY ASSURANCE

ENVIRONMENT, INTEGRATION AND AUTOMATION



RISKMANAGEMENT

Risk Name	Risk Description	Risk Probability of Occurrence	Risk Impact (1-10)	Risk Factor
Personnel deficits	One or more teammembers fall out	30%	9	2,7
unrealistic deadlines	Missplanned deadlines or underestimation	55%	4	2,2
Unrealistic use cases	Use cases are to big to get implemented	70%	3	2,1
loss of knowledge	Loss of Knowledge after a longer break	75%	2	1,5
Flapping Tests	Tests which randomly work and fail	25%	4	1
technical issues	Technical issues from one or more teammembers	90%	1	0,9
wrong use case implementation	the developer misunderstand the requirements	20%	4	0,8
New Java Version	Oracle brings out a new Java Version	40%	1	0,4
Infrastructure failure	Buildserver or Ticketsystem down	5%	7	0,35

TESTING

- SikuliX
- JUnit + TestFX
- Installation Tests

Nappy-the-ingenious

build passing codacy B coverage 72% coverage 72% quality gate passing

```
public class MainStageMainscreenTest extends ApplicationTest{  
    private MainStageController controller = new MainStageController(null);  
    private Language lang = Language.GERMAN;  
}
```

Nappy, the ingenious

Installation Test Document

a) Tester

Name:	Samuel Philipp	Project-Company:	saphijaga
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Operation System (OS):

- ☐ Microsoft Windows (7, 8 or 10)
- ☒ Linux (Ubuntu etc.)
- ☐ Mac

b) Test cases

Installation tests	Yes	No
Did the download work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did the application start?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

```
public void help() { clickOn(controller.view.btnHelp); }  
  
@Test  
public void openWiki() { clickOn(controller.view.btnWiki); }  
}
```

METRICS

- Tools
 - MetricsReloaded
 - Codacy
- Metric Profile
 - Abhängigkeiten
 - zyklomatische Komplexität

B

Project Certification

Issues Breakdown

Coverage

Metrics Complexity metrics for Project 'Nappy-the-ingenious' from Mi, 15 Jun 2016 11:56:24 MESZ

Code Complexity

100%

Compatibility

100%

Error Prone

0%

Security

100%

Method metrics

Class metrics

method	ev(G)	iv(G)	v(G)
nappydevelopment.nappyTheIngenious.gui.mainStage.I	1	25	29
nappydevelopment.nappyTheIngenious.gui.mainStage.I	4	4	5
nappydevelopment.nappyTheIngenious.gui.mainStage.I	4	4	6
nappydevelopment.nappyTheIngenious.util.eastereggs.I	4	4	5
nappydevelopment.nappyTheIngenious.data.CharacterF	5	4	5
nappydevelopment.nappyTheIngenious.util.Utils.getSca	1	3	11
nappydevelopment.nappyTheIngenious.gamemodes.ga	4	3	5
Total	23	47	66

0%

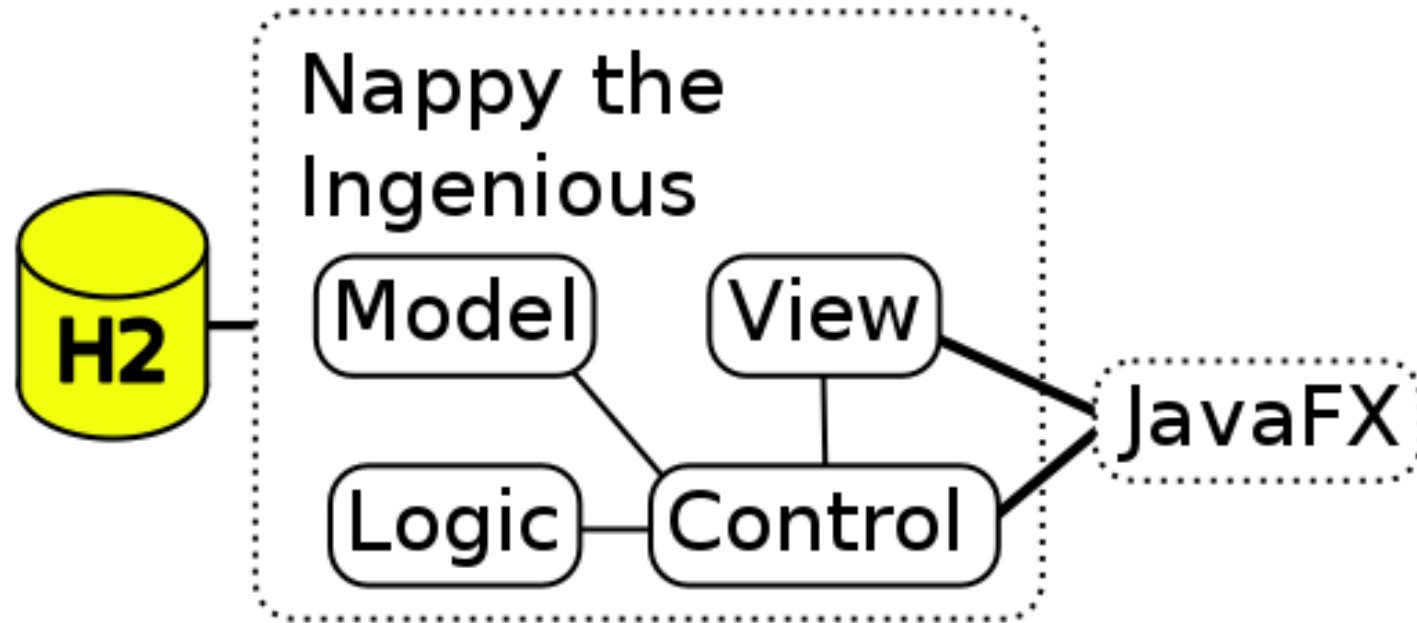
21%

39%

View All

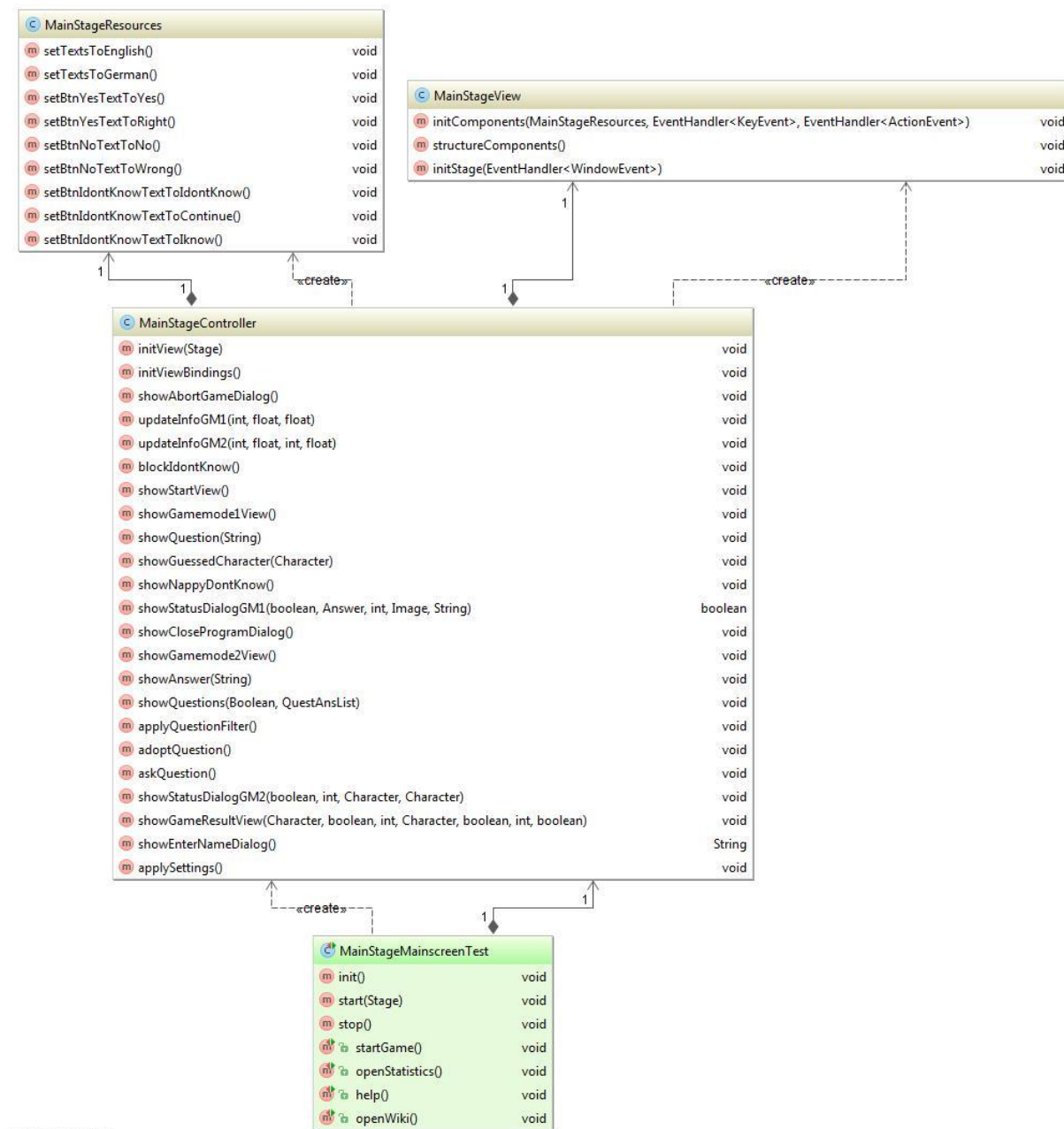
TECHNICAL ABILITY

ARCHITECTURE



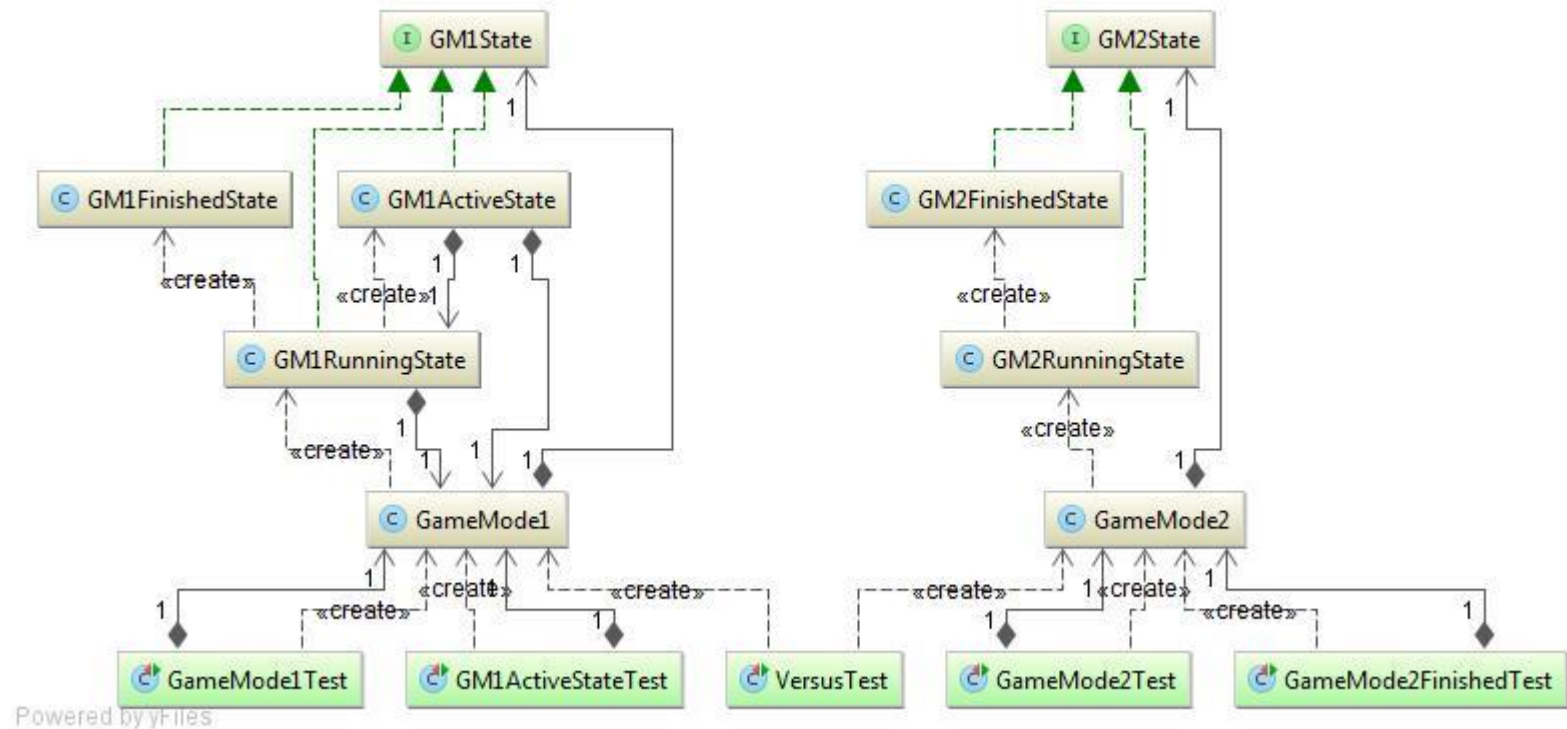
CLASS DIAGRAM

- Abgeschlossenheit
- Austauschbar und feste Schnittstellen zur Logik

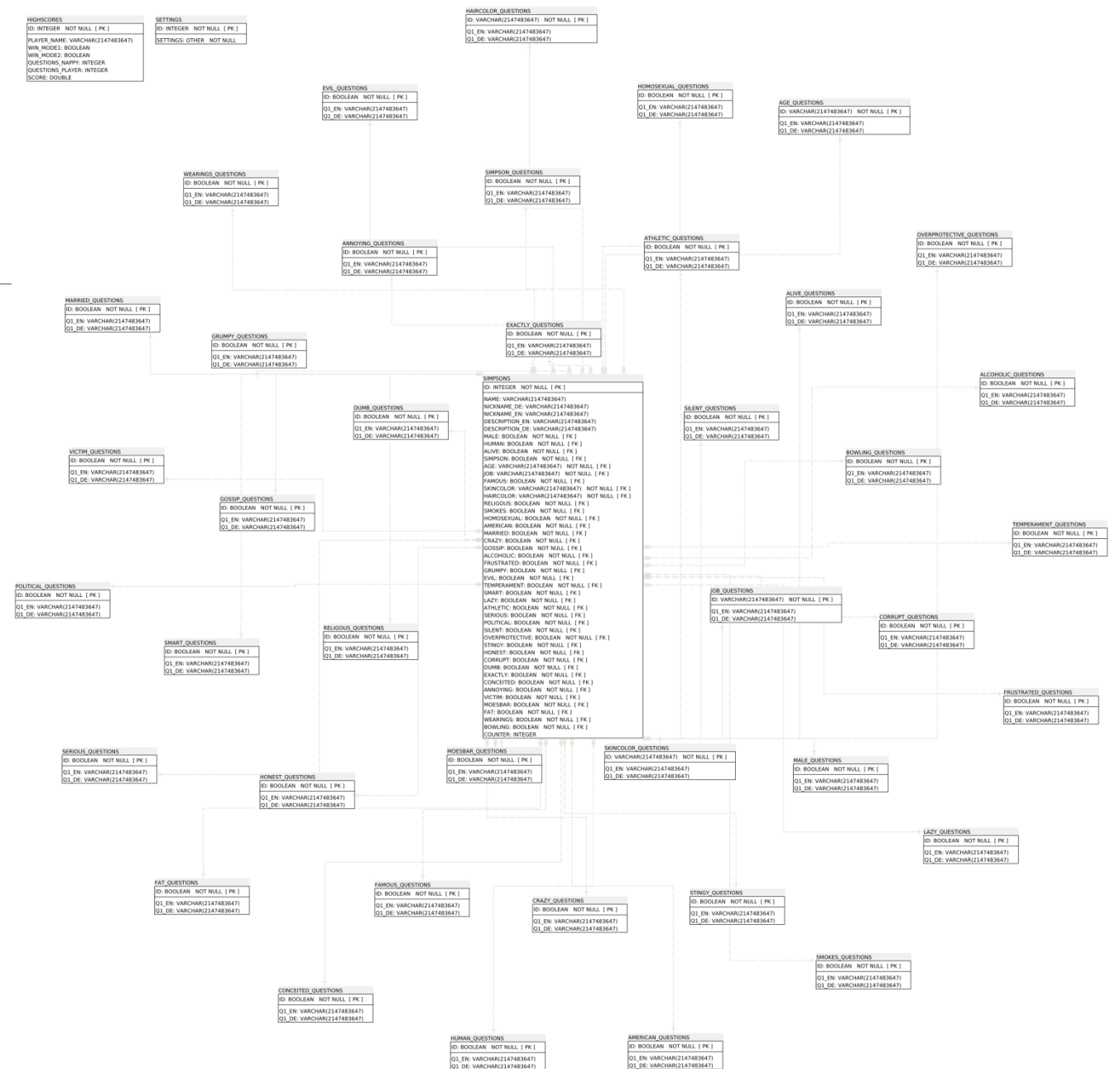


PATTERNS

- State Pattern
- UC: Gamemode 1 und 2



- H2 embedded & in-memory database
- Stern-Schema



DEMO – ENJOY 😊

Executable Jar: <https://github.com/nappydevelopment/Nappy-the-ingenious/raw/master/jar/nappy-the-ingenious-1.0.0.jar>

AUSBLICK?





LINKS

JIRA - <http://193.196.7.27:8080/secure/RapidBoard.jspa?rapidView=8&projectKey=NAP&view=planning>

Code - <https://github.com/nappydevelopment/Nappy-the-ingenuous>

Download - <https://github.com/nappydevelopment/Nappy-the-ingenuous/blob/master/README.md>

Coveralls - <https://coveralls.io/github/nappydevelopment/Nappy-the-ingenuous?branch=master>

Codacy - <https://www.codacy.com/app/NappyDevelopment/Nappy-the-ingenuous/dashboard>

SonarQube - <http://193.196.7.25/overview?id=5235>

Blog - <https://nappydevelopment.wordpress.com/>

Blog as PDF - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Blog%20As%20Book.pdf>

Docs - <https://github.com/nappydevelopment/docs/>

SRS - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Software%20Requirements%20Specification.pdf>

SAD - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Software%20Architecture%20Document.pdf>

Testplan - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Test%20Plan.pdf>

Riskmanagement - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Riskmanagment.pdf>

Function Points - <https://github.com/nappydevelopment/docs/blob/master/pdfs/Usecase%20doc.pdf>

