JoinSports



Gruppenmitglieder:

Timo Rautenberg, Alexander Bierenstiel, Dominik Schmitt

Datum: 20. Juni 2017

Agenda

- Vision
- Rollenverteilung
- RUP (Rational Unified Process)
- Technology
- Development Tools
- Risk Management
- Kostenabschätzung Function Points
- Softwarearchitektur
- Patterns
- Testing
- Automatisierung
- Metrics
- Continious Integration/Lifecycle Management
- Live Demo

Vision

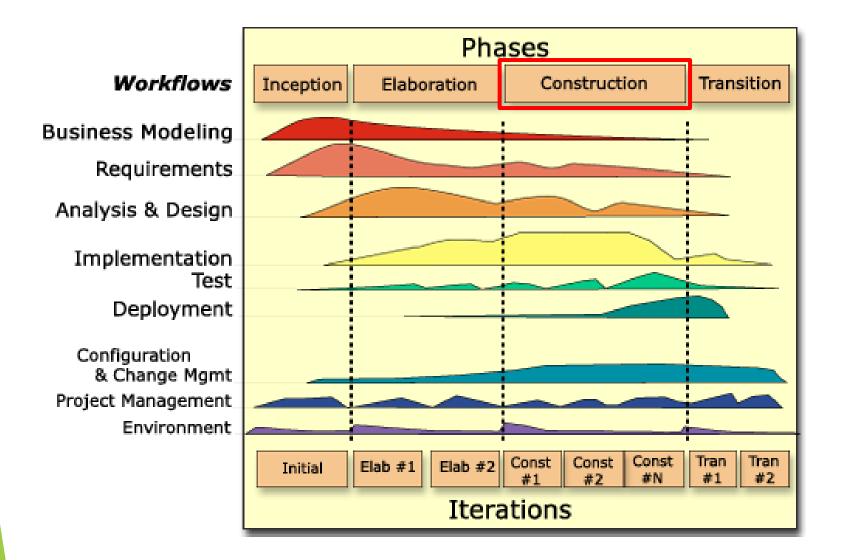
- ► App-Anwendung zur einfachen Vernetzung von Fußballfans
- Organisation von Matches auf öffentlichen Sportplätzen



Rollenverteilung

Timo Rautenberg	Alexander Bierenstiel	Dominik Schmitt		
Project Manager	 Implementer 	 Implementer 		
• Implementer	• Test Designer/Tester	• Test Designer/Tester		
 Tool Specialist 	• Tech Writer			
Graphic Artist	• Editor			

RUP (Rational Unified Process)



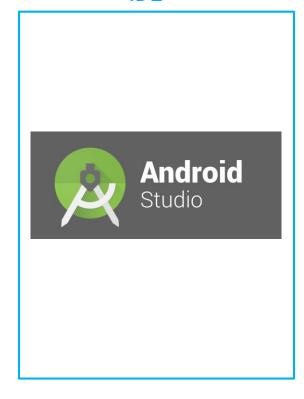
Technology

Alle verwendeten Sprachen/Tools

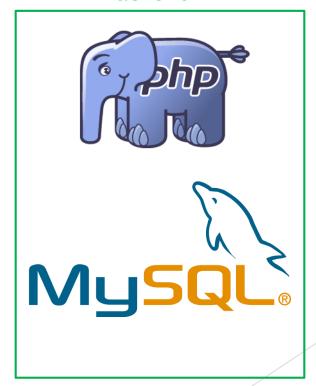
Frontend



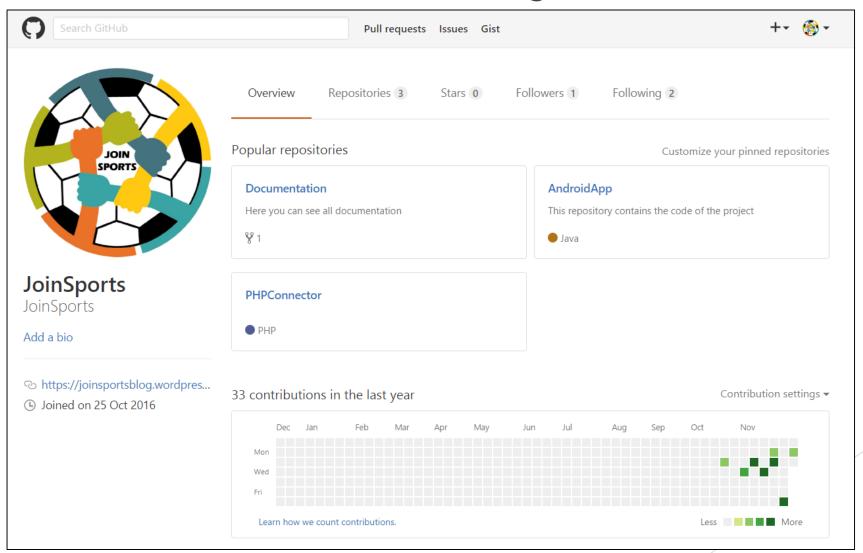
IDE



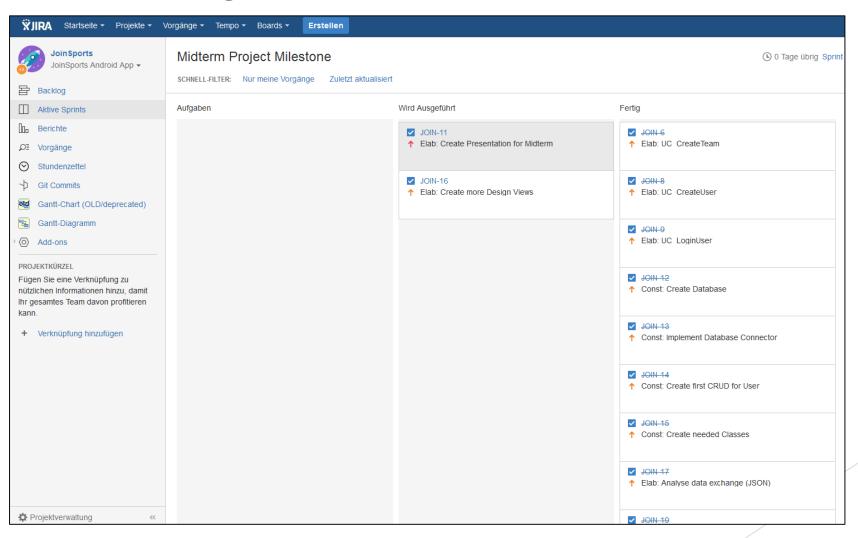
Backend



► GitHub als Versionsverwaltung



Scrumming via Jira



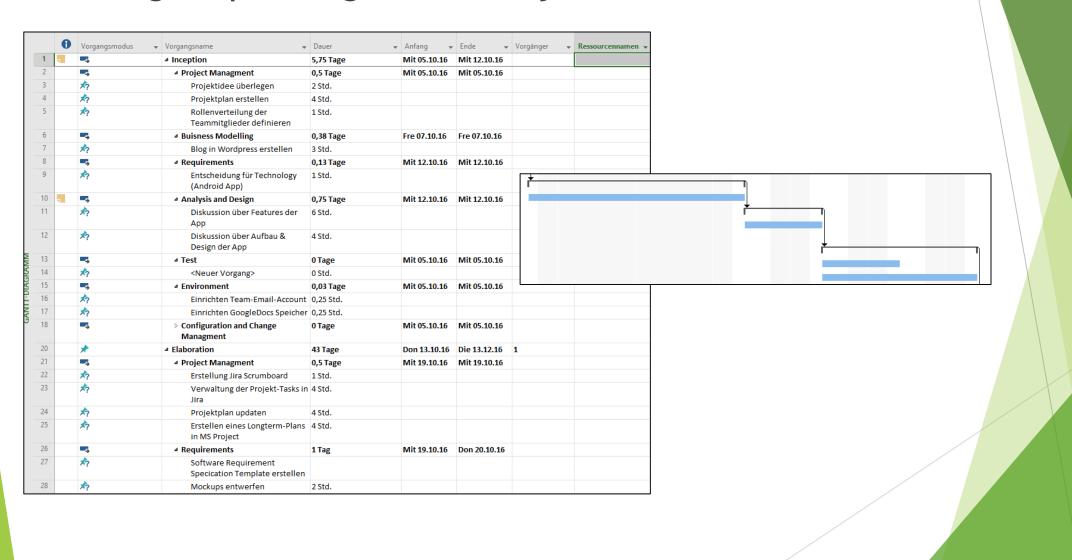
► Burndown Chart: Midterm Presentation



► Burndown Chart: Final Sprint



► Langzeitplanung via MS Project



Risk Management

Risk	Description	Probability of occurence	Damage	Mitigation strategy	Person in charge	Risk factor
	Состраст			iningation of alogy	i cican in citange	
System outages	PHP-API is unavailble	1%	9	Redundant infrastructure	Dominik Schmitt	0.09
Bad time management	Project exceeds deadline	8%	3	Define exact time plan	Timo Rautenberg	0.24
	Get trouble with Git- Repository	3%	2	Read Github tutorials	Alex Bierenstiel	0.06
Personnel deficits	Team member drops out	5%	4	Adjust time plan	Timo Rautenberg	0.2
Technical deadlock	Technology change required	20%	7	Searching for alternatives	Dominik Schmitt	1.4
Inexperience of team	Most of the members use the technologies for the first time	60%	5	Read documentations and tutorials	ALL	3.0
Influence of the workload	Parallel projects like PIC- Simulator, Web- Engineering,	30%	7	Strict Round Robin processing	Timo Rautenberg	2.1
Bugs	Throwback in time plan through bugs	50%	4	Clean coding	Alexander Bierstiel	2.0
	Inadequate communication among the members	5%	2	Weekly meetings	Timo Rautenberg	0.1

Vergleich:

- wirklich benötigte Zeit
- geschätzte Zeit

UC	Time	FP
CreateUser	11	27,59
LoginUser	9	22,25
UpdateUser	6	31,15
DeleteUser	4	16,91
CreateTeam	6	22,25
ReadTeam	6,873568314	20,47
UpdateTeam	10,81947831	25,81
DeleteTeam	7	16,91
CreateEvent	18,05364664	35,6
ReadEvent	6,873568314	20,47
UpdateEvent	20,68425331	39,16
DeleteEvent	4,242961649	16,91
CreateMatch	16,08069164	32,93
ReadMatch	6,873568314	20,47
UpdateMatch	18,71129831	36,49
DeleteMatch	4,242961649	16,91

Complexity Adjustment Table

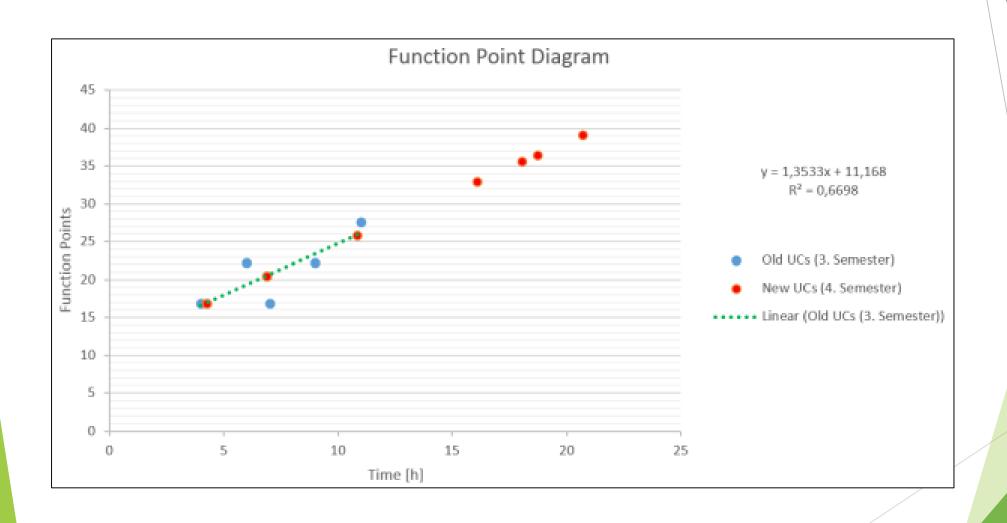
ITEM	COMPLETITY AD INSTRUCTION OF STRUCTURE				SCALE		
ITEM	COMPLEXITY ADJUSTMENT QUESTIONS	No Influ	No Influence 0 1		3	Essential 4 5	
1	Does the system require reliable backup and recovery?	0	•	0	0	0	0
2	Are data communications required?	0	0	0	0	0	•
3	Are there distributed processing functions?	0	0	•	0	0	0
4	Is performance critical?	0	•				
5	Will the system run in an existing, heavily utilized operational environment?	•	0	0	0		0
6	Does the system require on-line data entry?	0	0	0	•	0	0
7	Does the on-line data entry require the input transaction to be built over multiple screens or operations?	•	0	0	0	0	0
8	Are the master files updated on-line?	•	0	0	0	0	0
9	Are the inputs, outputs, files or inquiries complex?	0	0	0	0	•	0
10	Is the internal processing complex?		0	•	0	0	0
11	Is the code to be designed reusable?	0	•	0	0	0	
12	Are conversion and installation included in the design?	•	0	0	0	0	0
13	Is the system designed for multiple installations in different organizations?	•	0	0	0	0	0
14	Is the application designed to facilitate change and ease of use by the user?	0	0	0	0	0	•

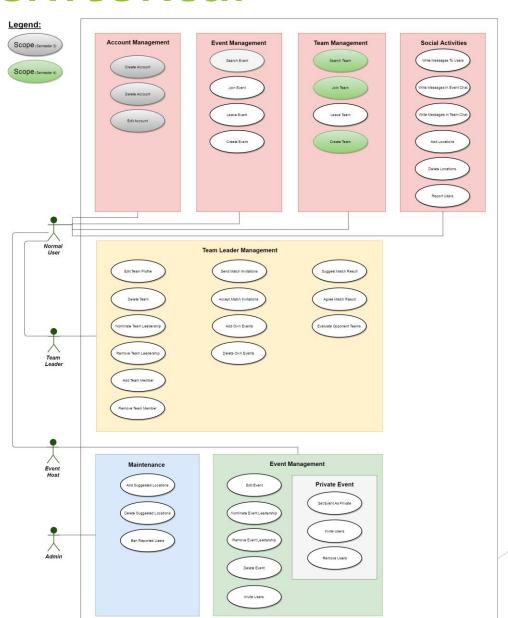


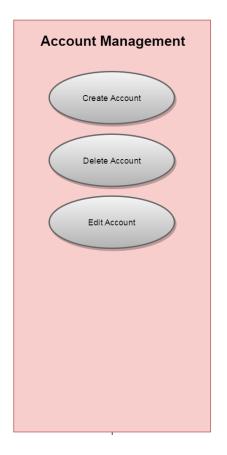
Domain Characteristic Table

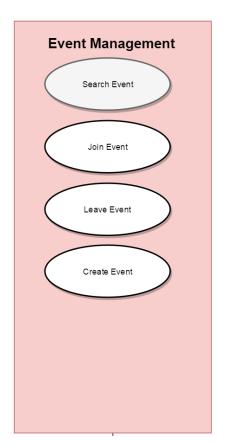
MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR Simple Average Complex			
Number of User Input	6	•	0		
Number of User Outputs	1	•	0		
Number of User Inquiries	2	•	0		
Number of Files	1	•	0		
Number of External Interfaces	1	•	0	0	

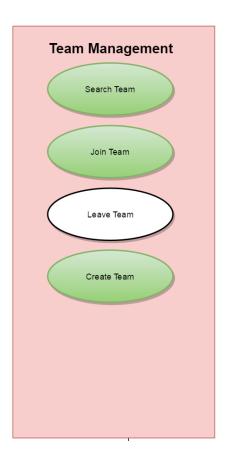
Complexity Adjustment Table | FP Calculation



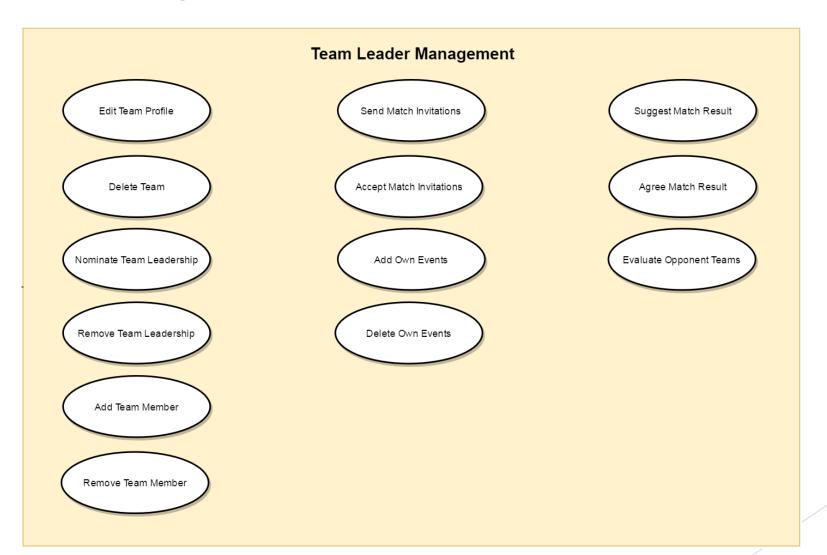


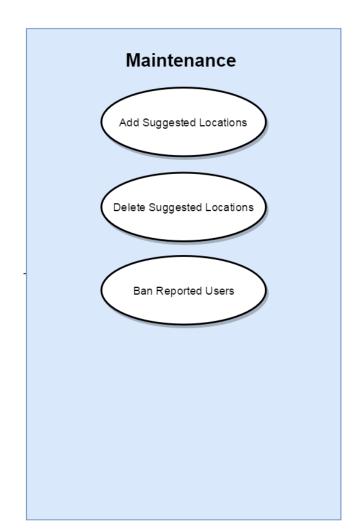


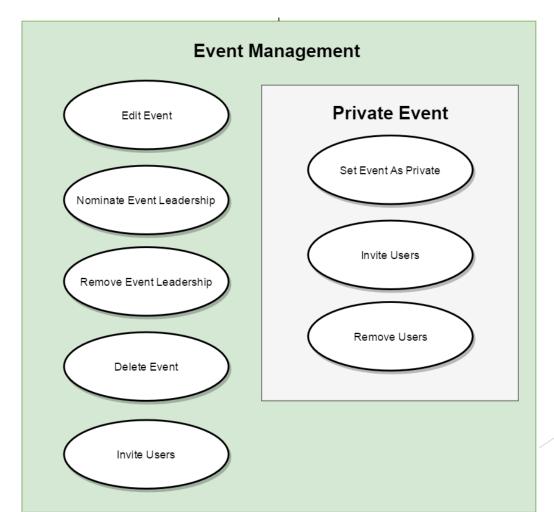


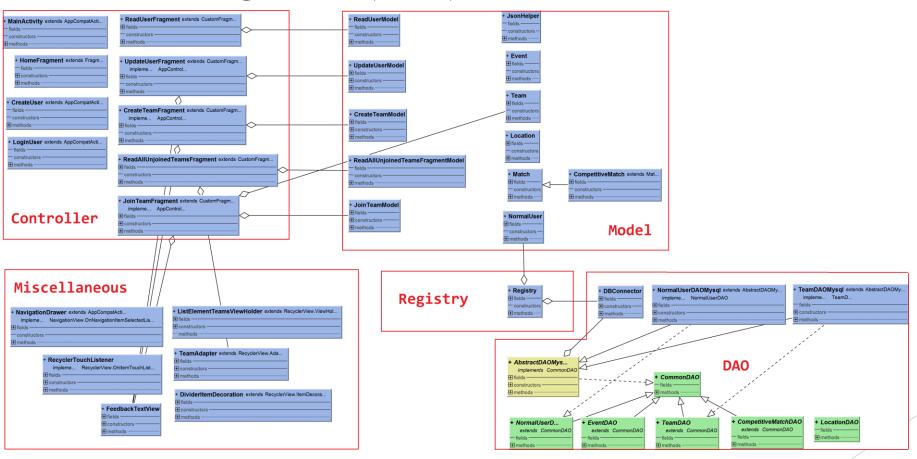


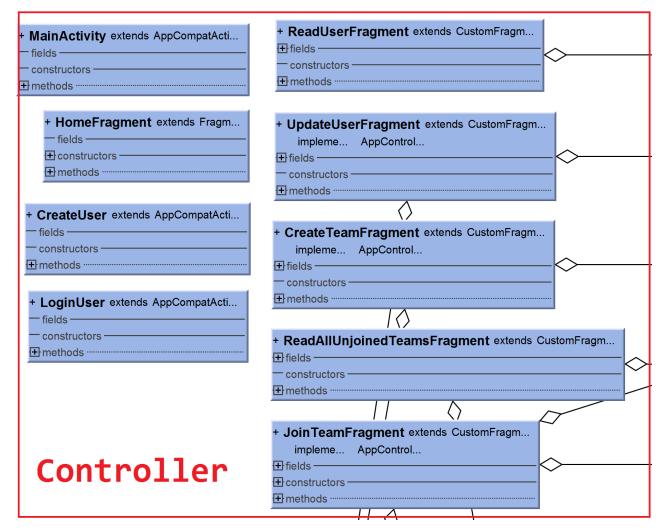


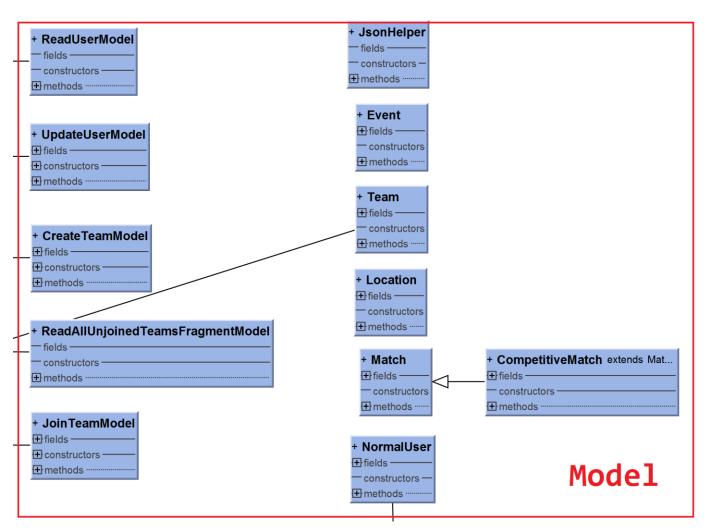


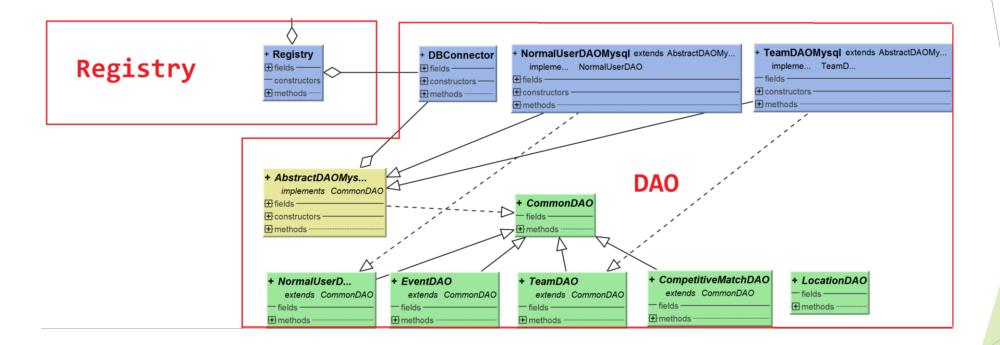






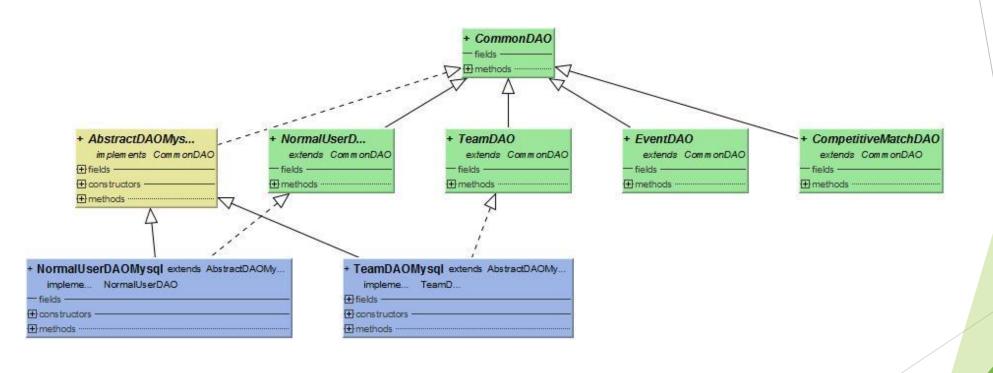




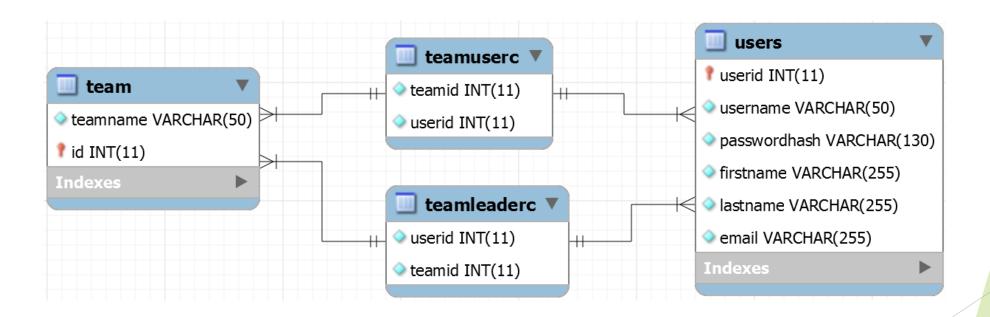


Patterns

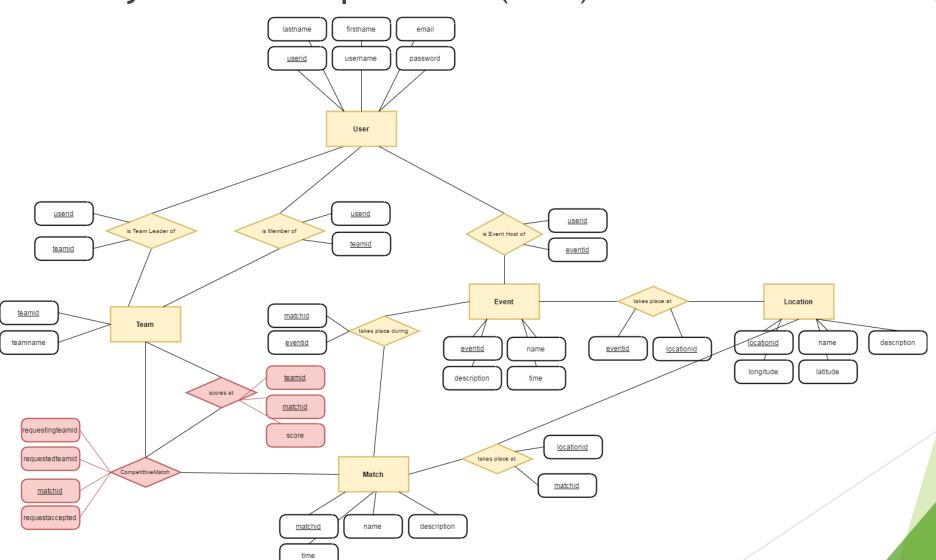
► DAO (Data Access Object)



► Entity-Relationship-Modell (ERM) → MySQL



► Entity-Relationship-Modell (ERM)



Testing

Espresso UI-Tests

▶ JUnit Unit-Tests

User-Tests

Auswertung mit Coveralls

Automatisiertes Tests mit TravisCI









Automatisierung

► TravisCI



Metrics

▶ Codacy





CODACY

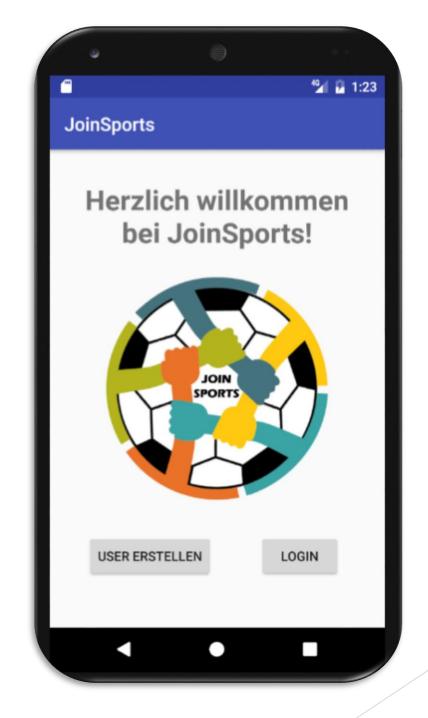
Performance
100%

codacy B

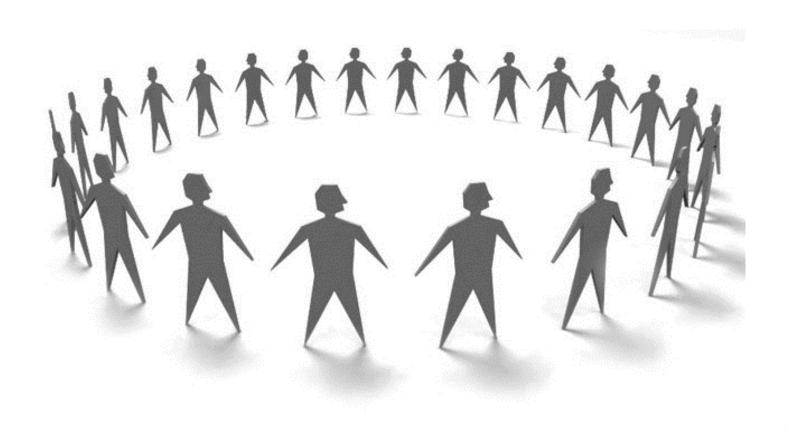
Continious Integration/Lifecycle Management (Automatic Deploy)

- ► TravisCI
- Möglichkeit App automatisch in den Google Play Store zu stellen

Live Demo



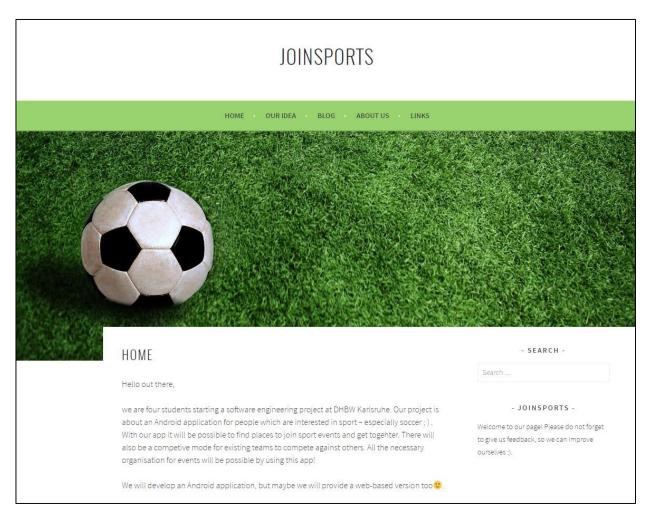
Warum wir?



Blog-Site

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https://joinsportsblog.wordpress.com/





Vielen Dank für Ihre Aufmerksamkeit!