

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
- ▶ Continuous Integration/Lifecycle Management
- ▶ Live Demo

Vision

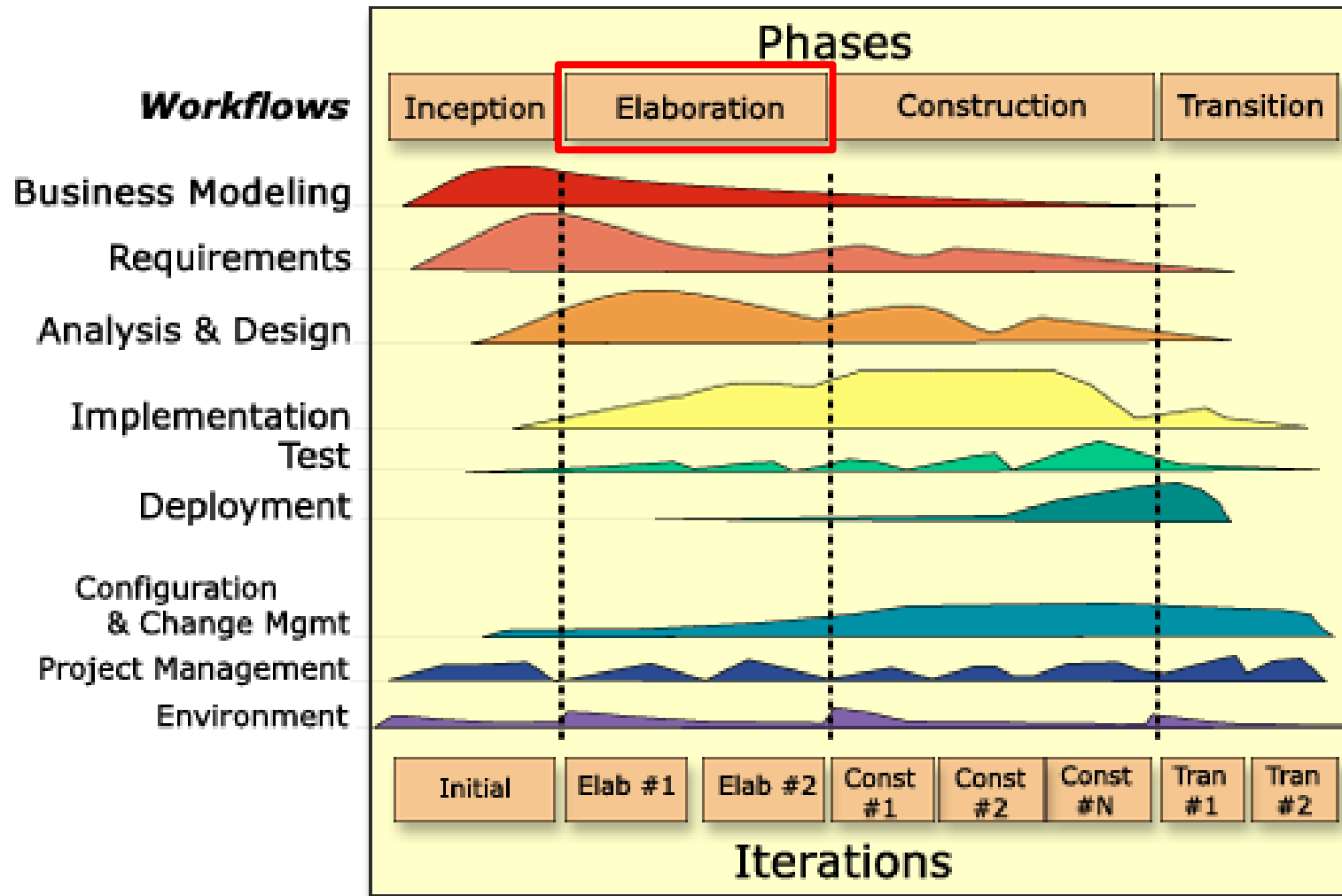
- ▶ App-Anwendung zur einfachen Vernetzung von Fußballfans
- ▶ Organisation von Matches auf öffentlichen Sportplätzen



Rollenverteilung

Timo Rautenberg	Alexander Bierenstiel	Dominik Schmitt
<ul style="list-style-type: none">• Project Manager• Implementer• Tool Specialist• Graphic Artist	<ul style="list-style-type: none">• Implementer• Test Designer/Tester• Tech Writer• Editor	<ul style="list-style-type: none">• Implementer• Test Designer/Tester

RUP (Rational Unified Process)



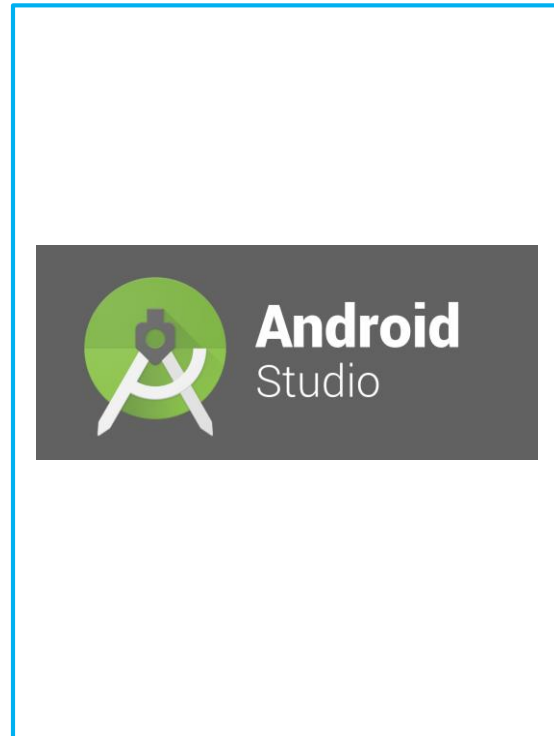
Technology

- Alle verwendeten Sprachen/Tools

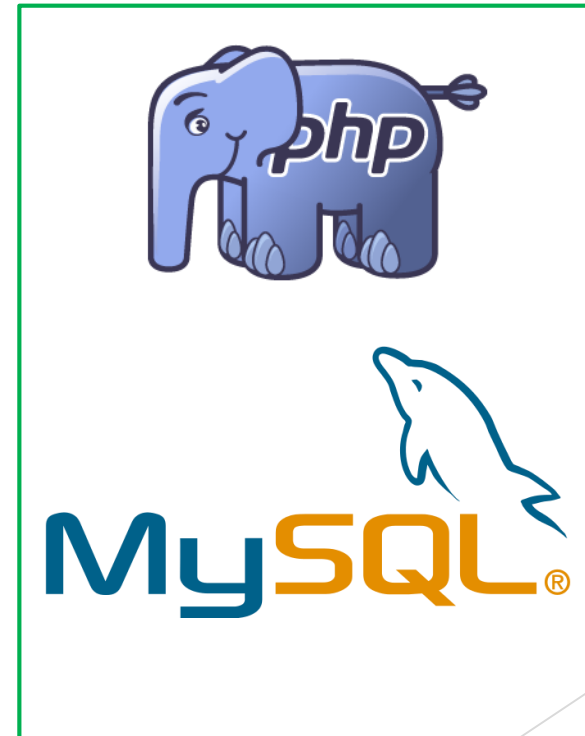
Frontend



IDE

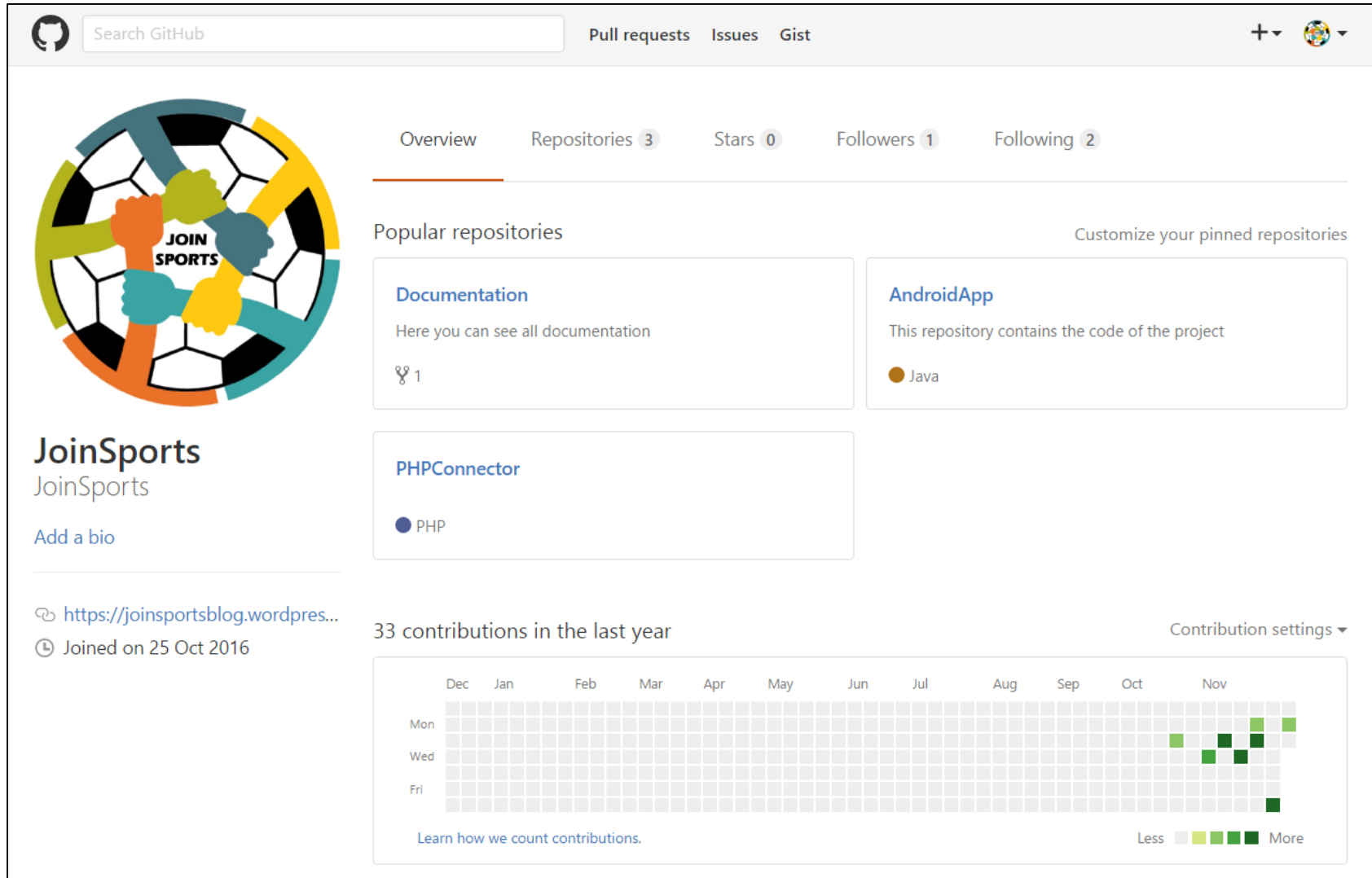


Backend





Development Tools

► GitHub als Versionsverwaltung



[Pull requests](#) [Issues](#) [Gist](#)

[+](#) 



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[Documentation](#)

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 1

[AndroidApp](#)

This repository contains the code of the project

 Java

[PHPConnector](#)

 PHP


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33 contributions in the last year

Contribution settings ▼

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Mon												
Wed												
Fri												

[Learn how we count contributions.](#)

Less  More

Development Tools

► Scrumming via Jira

The screenshot shows the Jira interface for a project named 'Midterm Project Milestone'. The top navigation bar includes 'JIRA', 'Startseite', 'Projekte', 'Vorgänge', 'Tempo', 'Boards', and a blue 'Erstellen' button. The left sidebar contains navigation links: 'Backlog', 'Aktive Sprints' (selected), 'Berichte', 'Vorgänge', 'Stundenzettel', 'Git Commits', 'Gantt-Chart (OLD/deprecated)', 'Gantt-Diagramm', and 'Add-ons'. Below these is a section for 'PROJEKTKÜRZEL' with instructions to add links and a '+ Verknüpfung hinzufügen' button. The main area displays a Scrum board with three columns: 'Aufgaben', 'Wird Ausgeführt', and 'Fertig'. The 'Aufgaben' column is empty. The 'Wird Ausgeführt' column contains two tasks: 'JOIN-11' (Elab: Create Presentation for Midterm) and 'JOIN-16' (Elab: Create more Design Views). The 'Fertig' column contains nine tasks: 'JOIN-6' (Elab: UC CreateTeam), 'JOIN-8' (Elab: UC CreateUser), 'JOIN-9' (Elab: UC LoginUser), 'JOIN-12' (Const: Create Database), 'JOIN-13' (Const: Implement Database Connector), 'JOIN-14' (Const: Create first CRUD for User), 'JOIN-15' (Const: Create needed Classes), 'JOIN-17' (Elab: Analyse data exchange (JSON)), and 'JOIN-19'. A timer at the top right indicates '0 Tage übrig' for the 'Sprint'.

JIRA Startseite ▾ Projekte ▾ Vorgänge ▾ Tempo ▾ Boards ▾ **Erstellen**

JoinSports
JoinSports Android App ▾

Backlog
Aktive Sprints
Berichte
Vorgänge
Stundenzettel
Git Commits
Gantt-Chart (OLD/deprecated)
Gantt-Diagramm
Add-ons

PROJEKTKÜRZEL
Fügen Sie eine Verknüpfung zu nützlichen Informationen hinzu, damit Ihr gesamtes Team davon profitieren kann.
+ Verknüpfung hinzufügen

Midterm Project Milestone 0 Tage übrig **Sprint**

SCHNELL-FILTER: Nur meine Vorgänge Zuletzt aktualisiert

Aufgaben

Wird Ausgeführt

- ✓ JOIN-11
↑ Elab: Create Presentation for Midterm
- ✓ JOIN-16
↑ Elab: Create more Design Views

Fertig

- ✓ JOIN-6
↑ Elab: UC CreateTeam
- ✓ JOIN-8
↑ Elab: UC CreateUser
- ✓ JOIN-9
↑ Elab: UC LoginUser
- ✓ JOIN-12
↑ Const: Create Database
- ✓ JOIN-13
↑ Const: Implement Database Connector
- ✓ JOIN-14
↑ Const: Create first CRUD for User
- ✓ JOIN-15
↑ Const: Create needed Classes
- ✓ JOIN-17
↑ Elab: Analyse data exchange (JSON)
- ✓ JOIN-19

Projektverwaltung <<

Development Tools

► Burndown Chart: Midterm Presentation



Development Tools

► Burndown Chart: Final Sprint

Development Tools

► Langzeitplanung via MS Project

GANIT-DIAGRAMM

	i	Vorgangsmodus	Vorgangsname	Dauer	Anfang	Ende	Vorgänger	Ressourcennamen
1			▸ Inception	5,75 Tage	Mit 05.10.16	Mit 12.10.16		
2			▸ Project Management	0,5 Tage	Mit 05.10.16	Mit 05.10.16		
3			Projektidee überlegen	2 Std.				
4			Projektplan erstellen	4 Std.				
5			Rollenverteilung der Teammitglieder definieren	1 Std.				
6			▸ Buisness Modelling	0,38 Tage	Fre 07.10.16	Fre 07.10.16		
7			Blog in Wordpress erstellen	3 Std.				
8			▸ Requirements	0,13 Tage	Mit 12.10.16	Mit 12.10.16		
9			Entscheidung für Technology (Android App)	1 Std.				
10			▸ Analysis and Design	0,75 Tage	Mit 12.10.16	Mit 12.10.16		
11			Diskussion über Features der App	6 Std.				
12			Diskussion über Aufbau & Design der App	4 Std.				
13			▸ Test	0 Tage	Mit 05.10.16	Mit 05.10.16		
14			<Neuer Vorgang>	0 Std.				
15			▸ Environment	0,03 Tage	Mit 05.10.16	Mit 05.10.16		
16			Einrichten Team-Email-Account	0,25 Std.				
17			Einrichten GoogleDocs Speicher	0,25 Std.				
18			▸ Configuration and Change Managment	0 Tage	Mit 05.10.16	Mit 05.10.16		
20			▸ Elaboration	43 Tage	Don 13.10.16	Die 13.12.16	1	
21			▸ Project Management	0,5 Tage	Mit 19.10.16	Mit 19.10.16		
22			Erstellung Jira Scrumboard	1 Std.				
23			Verwaltung der Projekt-Tasks in Jira	4 Std.				
24			Projektplan updaten	4 Std.				
25			Erstellen eines Longterm-Plans in MS Project	4 Std.				
26			▸ Requirements	1 Tag	Mit 19.10.16	Don 20.10.16		
27			Software Requirement Specication Template erstellen					
28			Mockups entwerfen	2 Std.				

Risk Management

► <Screenshot Excel Tabelle>

Kostenabschätzung - Function Points

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

Kostenabschätzung - Function Points

Complexity Adjustment Table

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



Software Engineering
Tiny Tools

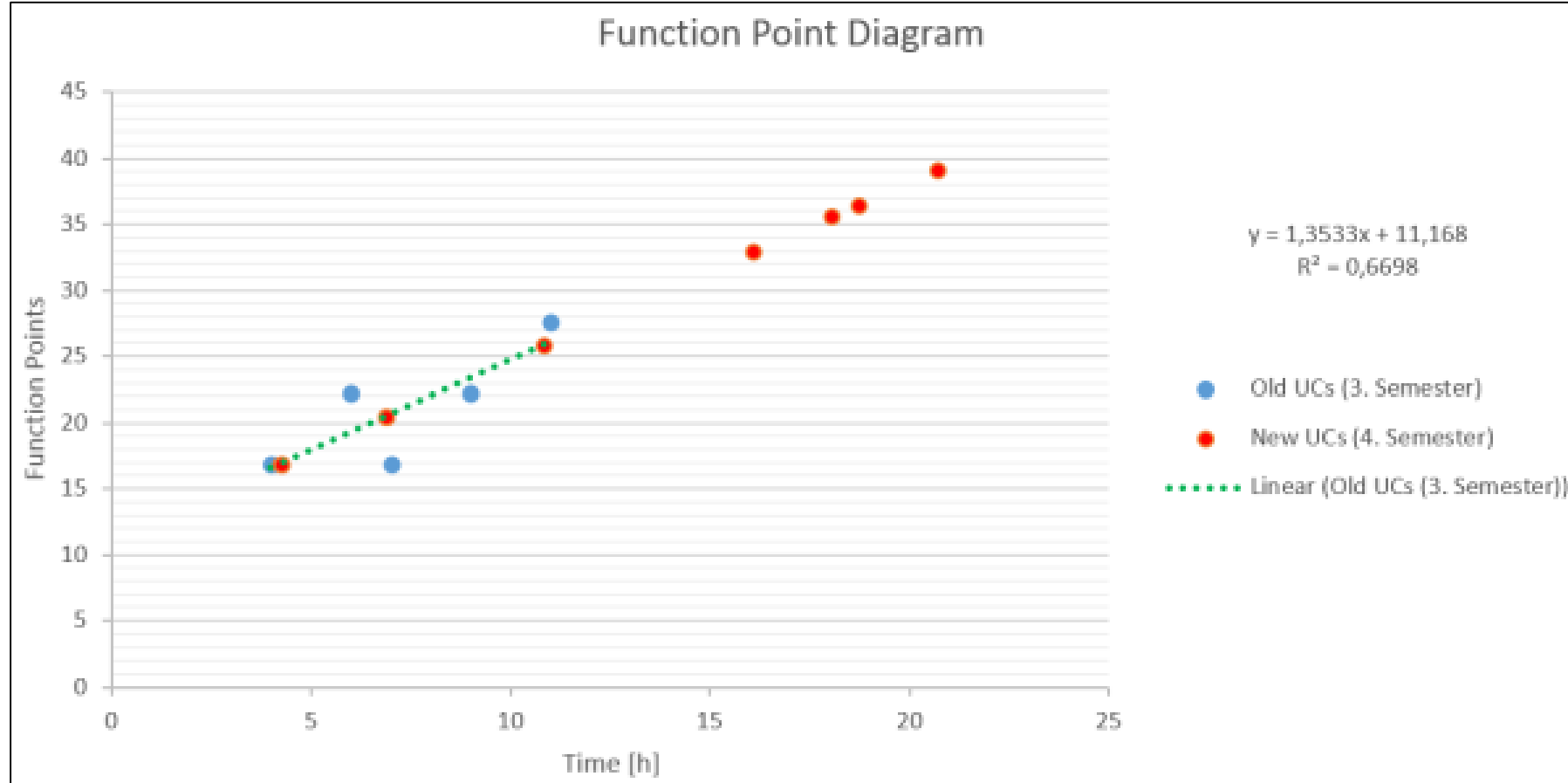
Kostenabschätzung - Function Points

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value ≥ 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	<input type="text" value="6"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	<input type="text" value="2"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	<input type="text" value="1"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

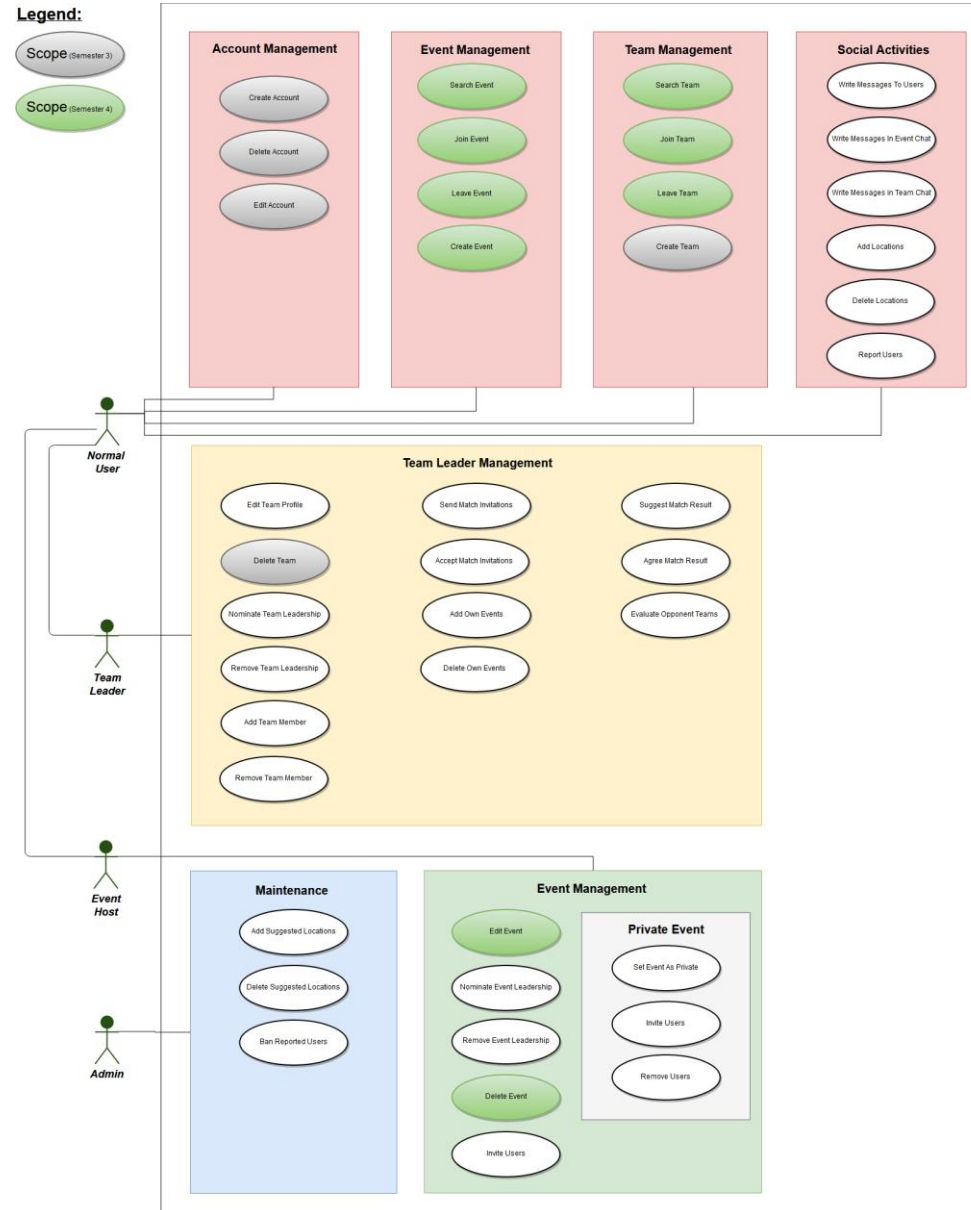
[Complexity Adjustment Table](#) | [FP Calculation](#)

Kostenabschätzung - Function Points



Softwarearchitektur

► UC Diagramm



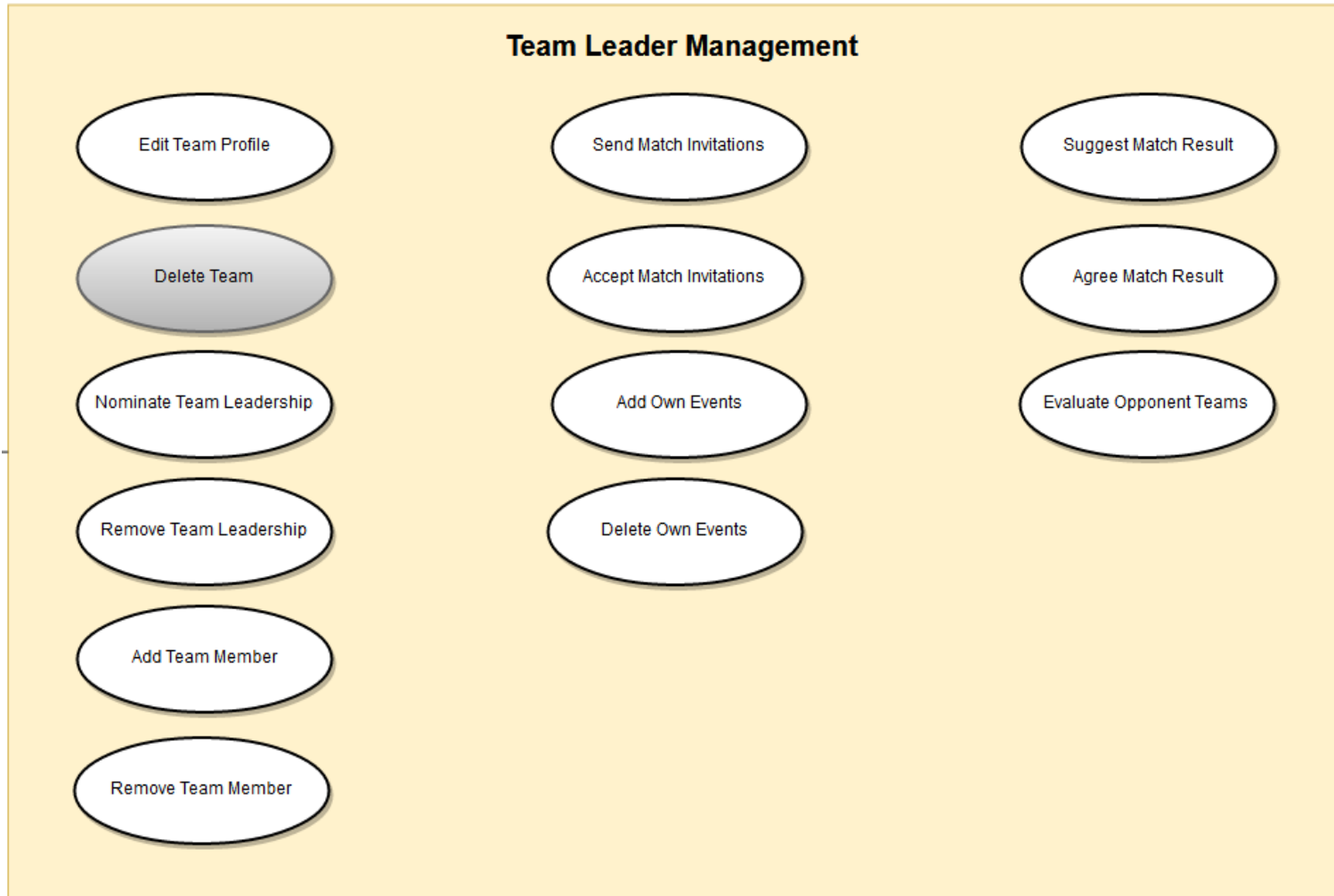
Softwarearchitektur

► UC Diagramm



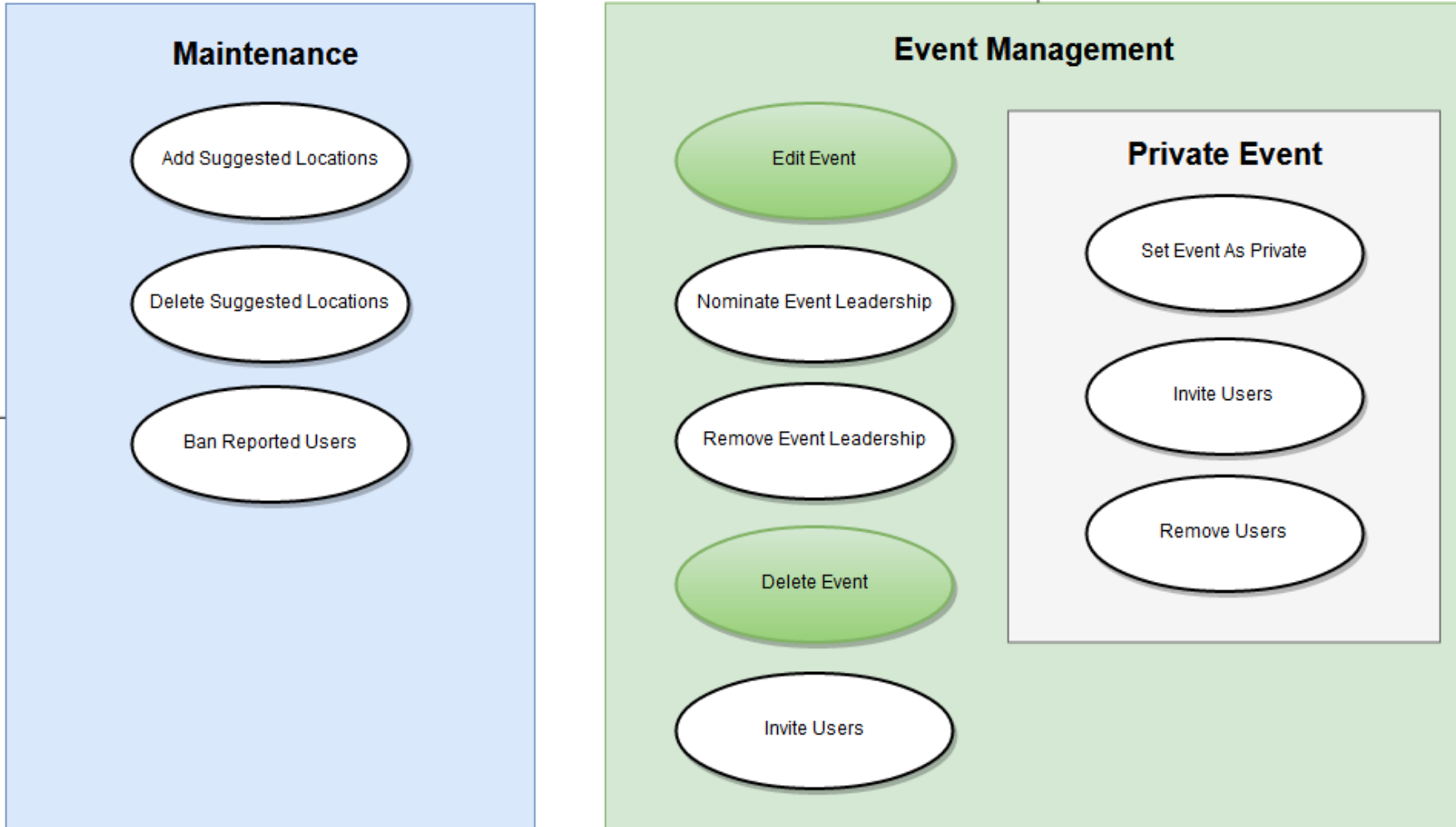
Softwarearchitektur

► UC Diagramm



Softwarearchitektur

► UC Diagramm

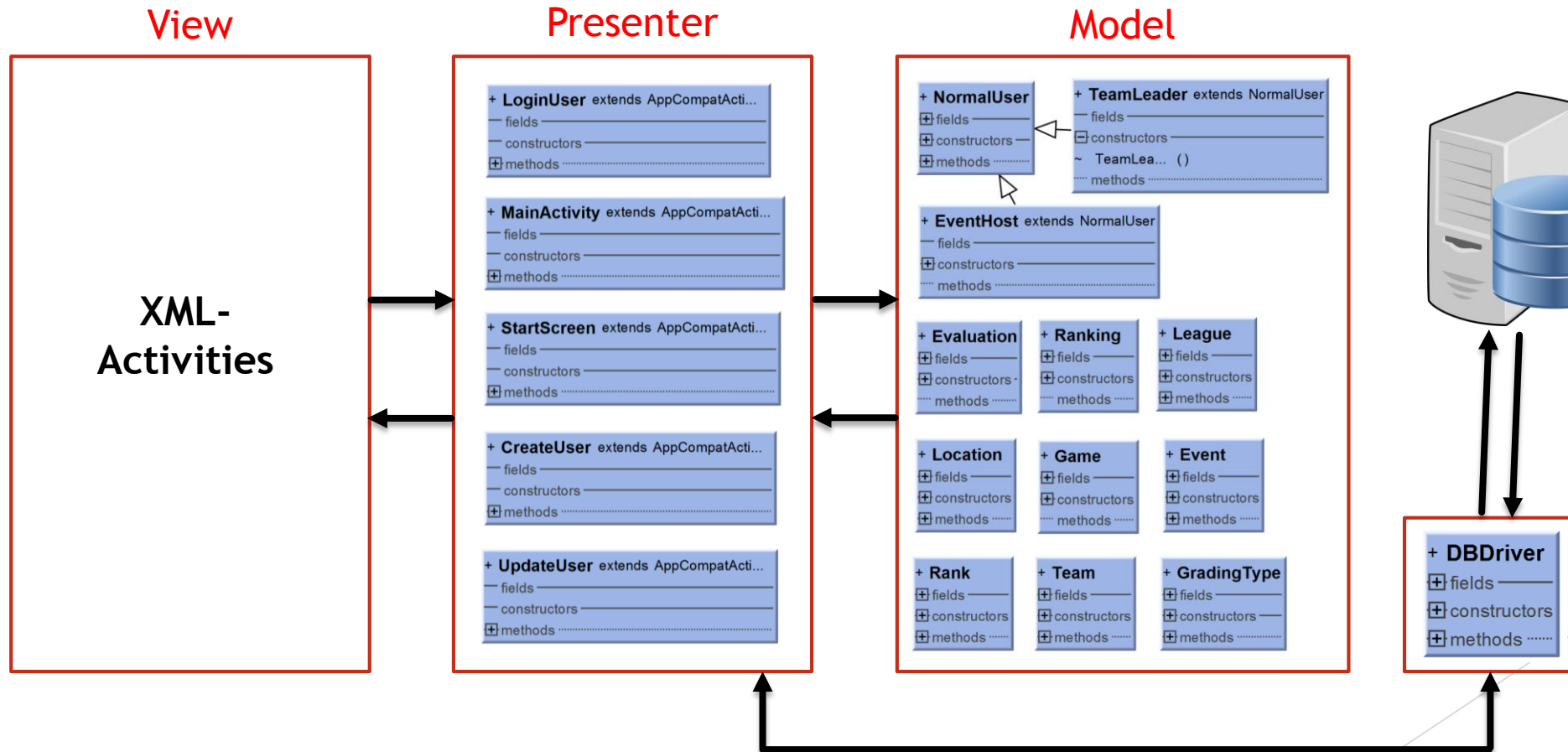


Softwarearchitektur

► Klassen-Diagramm (UML)

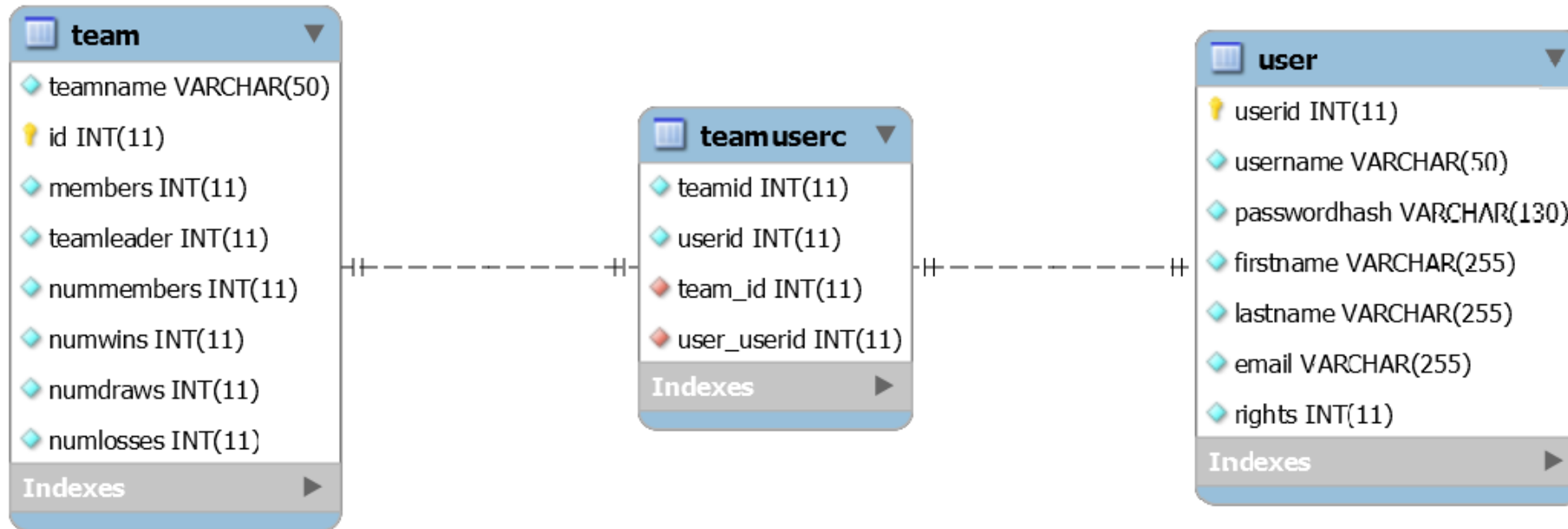
Softwarearchitektur

► MVP - Architektur (Model-View-Presenter)



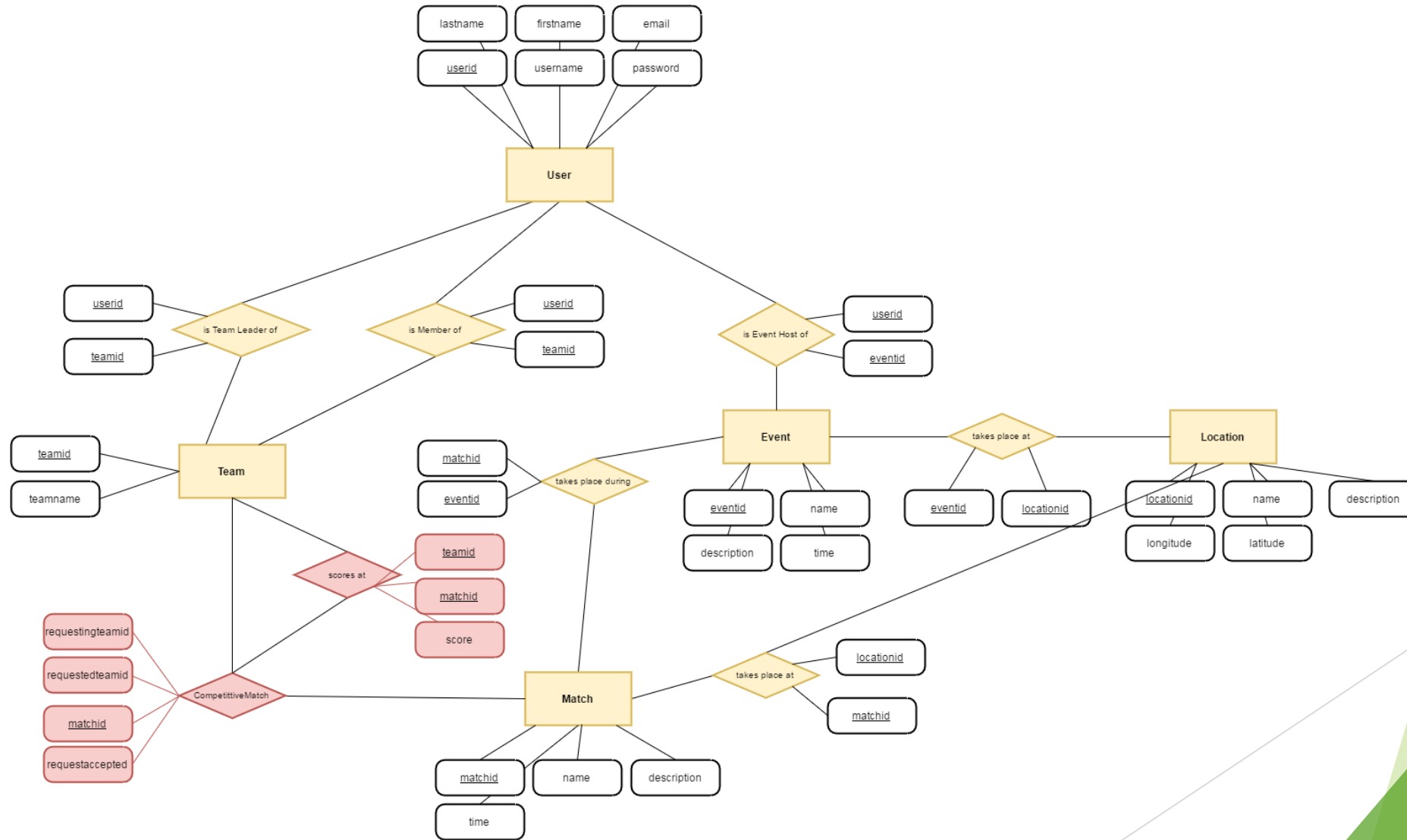
Softwarearchitektur

► Entity-Relationship-Modell (ERM) → MySQL



Softwarearchitektur

► Entity-Relationship-Modell (ERM) → MySQL



Patterns

► MVC

Patterns

► DAO

Patterns

► Registry

Testing

- ▶ Espresso UI-Tests
- ▶ JUnit Unit-Tests
- ▶ User-Tests

- ▶ Auswertung mit Coveralls

- ▶ Automatisiertes Tests mit TravisCI

Automatisierung

► TravisCI

Metrics

► Codacy

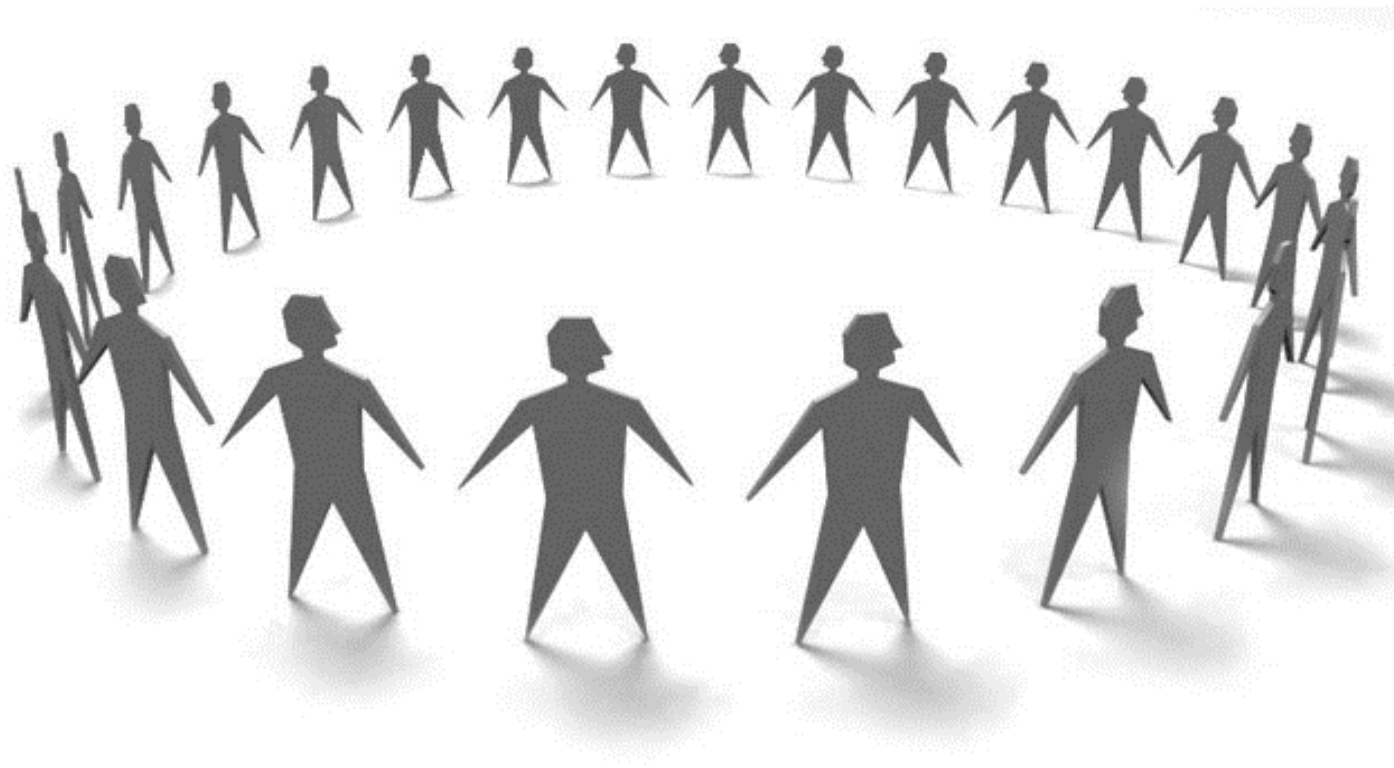
Continuous Integration/Lifecycle Management (Automatic Deploy)

► TravisCI

Live Demo



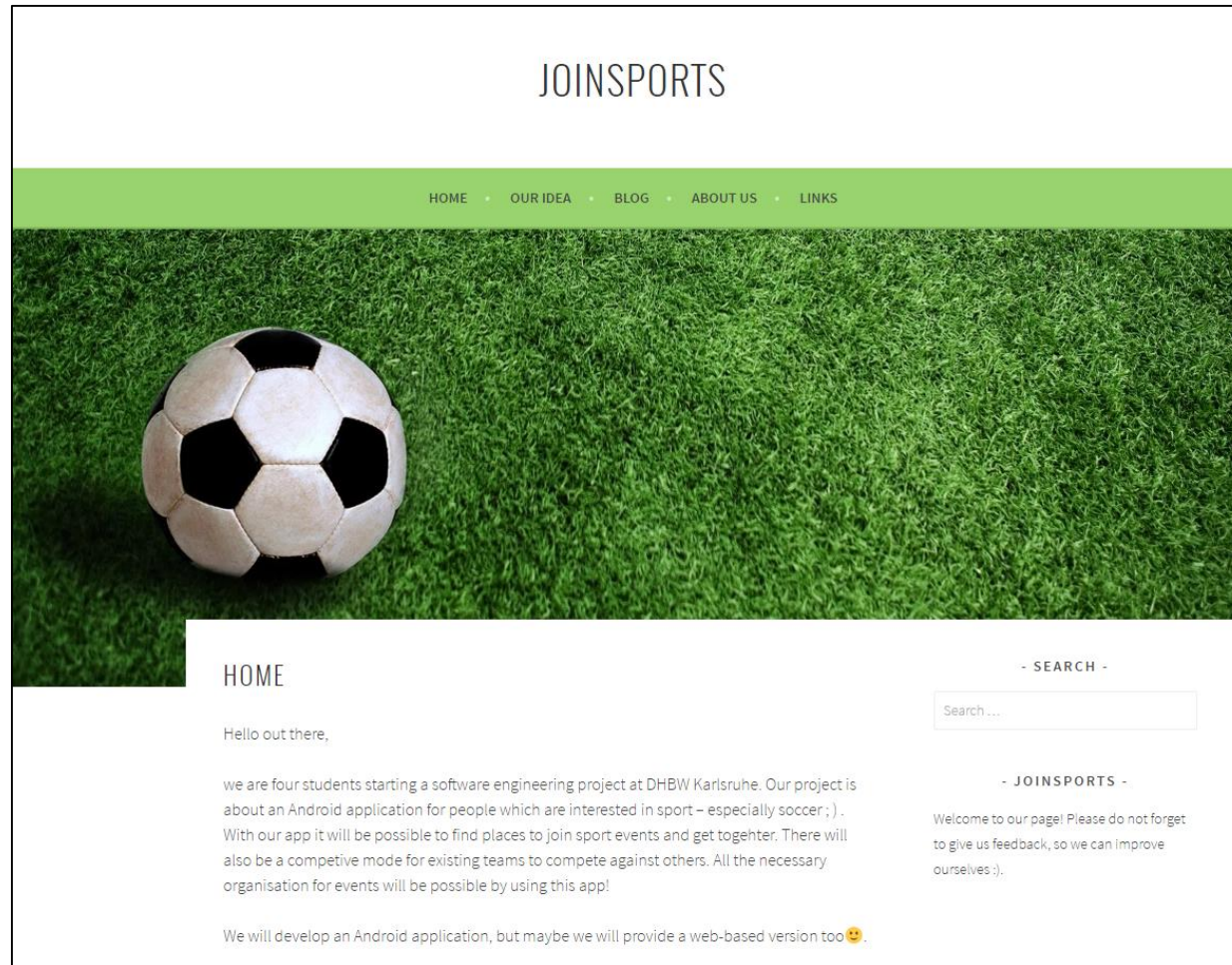
Warum wir ?



Blog-Site

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Vielen Dank für Ihre
Aufmerksamkeit!