



Ferdinand Braun

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Welcome to SquadIT!

Hey there!

We are a team of three Computer Science students from the DHBW Karlsruhe in Germany. SquadIT is the project we do in our Software Engineering class. With SquadIT we want to help clubs of all kinds to organize themselves. When we got our task in the class we first thought we should do something simple but good. Thinking a few days from there on we realized that a big problem in daily life is the organization of upcoming events, like matches against other teams. With SquadIT you can add your teammates and add your events. Optimized in the communication process every member of the event can easily give feedback about new planned tournaments, meetings or other upcoming events.

Features:

- Easy to use WebApp
- Teamchat
- Event calendar
- List of entrants

Features out of scope:

- iOS/Android App with push notifications

more features upcoming...

Updated: October 08, 2016

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COMMENTS

**Waldemar**

October 12, 2016 at 09:33 AM

Hi SquadIT

Your explanation is very good. Which technologies are you going to use for the front-/backend? Very cool idea! I am looking forward to get use of it.

regards Waldemar

**Timo**

October 18, 2016 at 09:39 AM

Hello SquadIT,

I think you described your project vision really clear.

Even if the ideas of our project groups have the similar basic idea, I think the implementations will go in different directions. Keep it up. I am looking forward to hearing from your progress!

Greetings, Timo

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Jan Syring-Lingenfelder

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Technology and Team Roles

Goooooooo Morning World!

First steps first, we need to select the technology, frameworks and tools which we want to use. As we decided to build SquadIT as a Web Application in the first place, we will use PHP as the server-side language and HTML5, CSS3 and some JavaScript on the frontend side. To make life easier, we're obviously going to make use of some frameworks:

Technology

- **Flow** is a PHP Framework which implements the MVC pattern. It also comes with Doctrine, an ORM Framework for persistence, thus letting the developers concentrate on their Business Logic
- **Bootstrap & jQuery** will be used for styling the HTML Output and creating a responsive layout

Tools

- **GitHub** obviously to host the code, also our homepage and blog are hosted on GitHub Pages
- **Travis-CI** for continuous integration, unit- and framework testing
- **Composer** as a PHP package and dependency manager
- **Telegram** as messenger, also connected to GitHub via the **GitHubBot** to notify us of commits, PRs, etc.

Note: If you are interested in how I set up the development environment on my machine, you can look on the [wiki page](#), or feel free to ask me :)

The selection of the tools was rather straight forward, so to the interesting stuff now: How do we organize ourselves?

Team Roles

Based on the **RUP** roles we assigned roles to each team member. We only picked the roles we think are important, while keeping an eye on having both breadth and depth view for each discipline. Each of us has the Role "Implementer", as all of us do want and need to work on the code itself.

Ferdinand	Jan	Rico
Test Manager	Software Architect	Business Process Analyst
Change Control Manager	Integrator	Co-Implementer
Co-Implementer	Co-Implementer	Testdesigner
	Tool Specialist	

 **Updated:** October 12, 2016

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COMMENTS



GTA Group

October 18, 2016 at 11:00 AM

Everything sounds really good. You know what you doing and our opinion is, that all roles are covered. Your choice of the tools, you will work with, seems also reasonable.



Luka

October 19, 2016 at 09:39 AM

I really like the design of your Blog. You have a clear and well structured definition of your team. I like it. Keep up the good work.

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Name *



Rico Jambor

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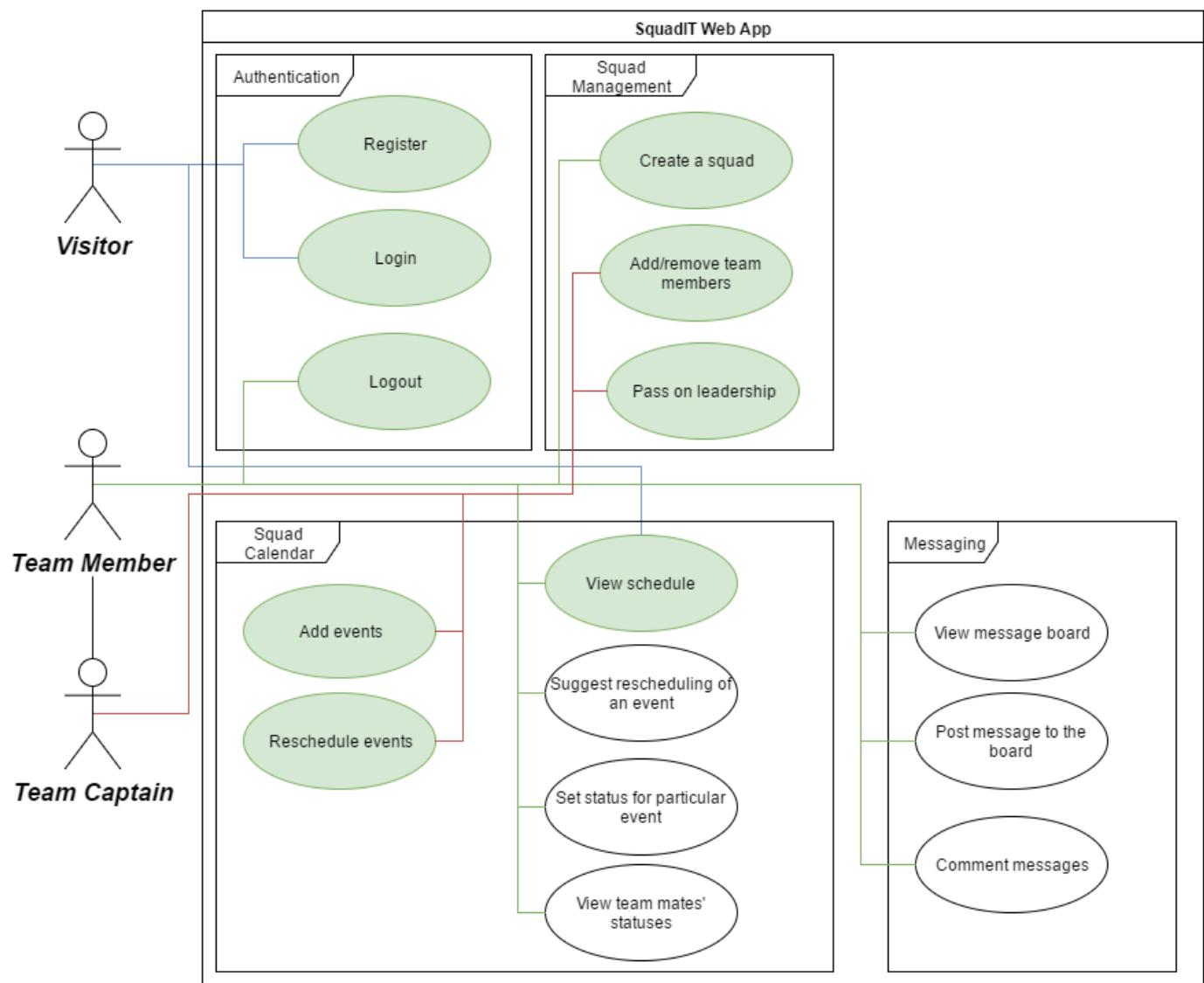
Software Requirements & Use case diagram

Hey there!

This week we're going to present our "Software Requirement Specification" (SRS) and our use case diagram. With both we want to determine what exactly our software will be capable of.

The SRS can be found [here](#)!

Here you can see our use case diagram:



📅 **Updated:** October 24, 2016

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COMMENTS

**Patick**

October 24, 2016 at 06:38 PM

Hey Team SquadIT!

I just discovered this new blog entry about your Software Requirement Specification, in which you clearly defined how to implement your project. The SRS seems to cover all necessary requirements and constraints. It should serve you well throughout the implementation process!

The UCD is also accurate. The required components are covered and every bubble contains a verb.

Regards,

Patrick

**Marco Kolb**

October 25, 2016 at 04:09 PM

Hello,

Your project sounds interesting and helpful to organize teams. Moreover, your SRS gives a great overview about what you're planning to do. You did a really good job in the overall use case diagram too by showing the different permissions of the people. Maybe you could add a legend for the scope to your overall use case diagramm so it's easier to understand when you plan to do what. Additionally, there are some typos in your SRS... I look forward to hear more about your project.

Best Regards, Marco Kolb

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Comment *

**Ferdinand Braun**[Follow](#)

Use Cases

Hey there!

We started working on two Use Cases for the last week. We're proud to show you our Use Cases in the links below. Check them out and stay tuned for more blog posts!

Use Cases:

- [Create Squad](#)
- [Add Event](#)

Updated: November 01, 2016[Previous](#)[Next](#)

COMMENTS

**TheMidnightExpress**

November 01, 2016 at 09:13 PM

Hello SquadIT,

we really like your UseCases. It contains nice MockUps and a great diagram. You used the right template and it contains all the information we want to know. We only miss the links to the SRS and the marks that there is a CRUD.

Kind regards, TheMidnightExpress

**TextVenturer**

November 02, 2016 at 07:29 AM

Hi Guys, nice MockUps, your UC seems good, too.

Greeting TextVenturer

**Join**

November 02, 2016 at 07:44 AM

Hi SquadIT,

your MockUps design is great! I think the related diagrams are completely understandable. The template shows all important information about the UseCases. But, in the other hand, there are some actions unnecessary (like click "Create squad"/"Add Event"). That is because when your UC is named create squad, you know you had to click a button or similar with that name before calling the UC.

Keep it up!

Greetings, the JoinSports-Team

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Rico Jambor

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Scrumming like it's hot

Hey there, I'm using Zenhub!

Welcome fans, today we want to present you our new issue tracker. We're not using Jira but [Zenhub](#) instead. It's directly connected to our GitHub repository. That way we won't get lost in using too much tools.

To view our issue tracker or burndown charts just install the [Zenhub browser extension](#) and visit our [Github repository](#).

We created two sprints with a duration of two weeks each. Currently the goal of one of our sprints is to create 3 further use cases.

We'll add more issues and goals soon, so stay tuned.

Your SquadIT-team

Updated: November 08, 2016

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COMMENTS

**TextVenturer**

November 22, 2016 at 09:20 AM

Hey I've installed the extension and look at your board. It looks good.

**TheMidnightExpress**

November 29, 2016 at 08:45 AM

Hello SquadIT,

we also have installed ZenHub and use it too. Your board looks pretty nice and has some nice issues. But ZenHub always crashes if I try to load your charts and boards. Maybe this will be fixed.

Regards TheMidnightExpress

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Jan Syring-Lingenfelder

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Gherkin, Behat and other struggles

G'day!

This week we completed the two use cases we defined two weeks ago by writing the Gherkin files. You can see them in [this](#) directory directly in our repository. Also, here is a screenshot from one of the files, so you can see that we have nice syntax highlighting in our editor :)

Feature: Squad Calendar

```
To efficiently manage the squad events can be scheduled in a calendar
```

Background:

```
Given a squad "Testsquad" exists
```

```
Given there are users:
```

username	role
chef	team captain
player	member

Scenario: Add Event

```
Given I am logged in as "chef"
```

```
And I am on "/calendar"
```

```
When I press "Create Event"
```

```
Then I should see 6 "input" elements
```

Actually, these tests are already running. We connected Travis-CI to our repository, which runs the behat tests every time we push a commit. See the test logs [here](#).

SquadIT is coming to life!

This time, we have a working hello world already deployed, feel free to check it out here:
squadit-service.jan-sl.de

Updated: November 15, 2016

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COMMENTS

<http://squadit.jan-sl.de/blog/gherkin/>

1/5

**Project Ortus**

November 15, 2016 at 12:47 PM

Hey SquadIT,

we just checked your .feature files and everything seems to look good according to our chief developer Koray. Maybe you could integrate a video showing the automated testing in your blogpost?

We like the coloring in your IDE :P

Regards, Team Project Ortus

**Waldemar**

November 15, 2016 at 06:54 PM

Hi SquadIT,

your feature files look very nice. We congratulate you on completing the first design of the website. Everything seems to be correct, keep on this way!

Regards, Waldemar

**BillChill**

November 15, 2016 at 07:41 PM

Hey SquadIT

Your test setup looks grate like Project Ortus already mentioned. Also your application looks promising like your test logs. We are realy looking forward to see your finished project.

Kind regards BillChill

**TheMidnightExpress**

December 04, 2016 at 05:28 PM

Hello SquadIT

we like your Test-Files and everythings seems to be correct. Your "Hello-World"-page looks awesome and has even yet good functionality. A test-video would be nice but we trust you that the testing is fine ;)



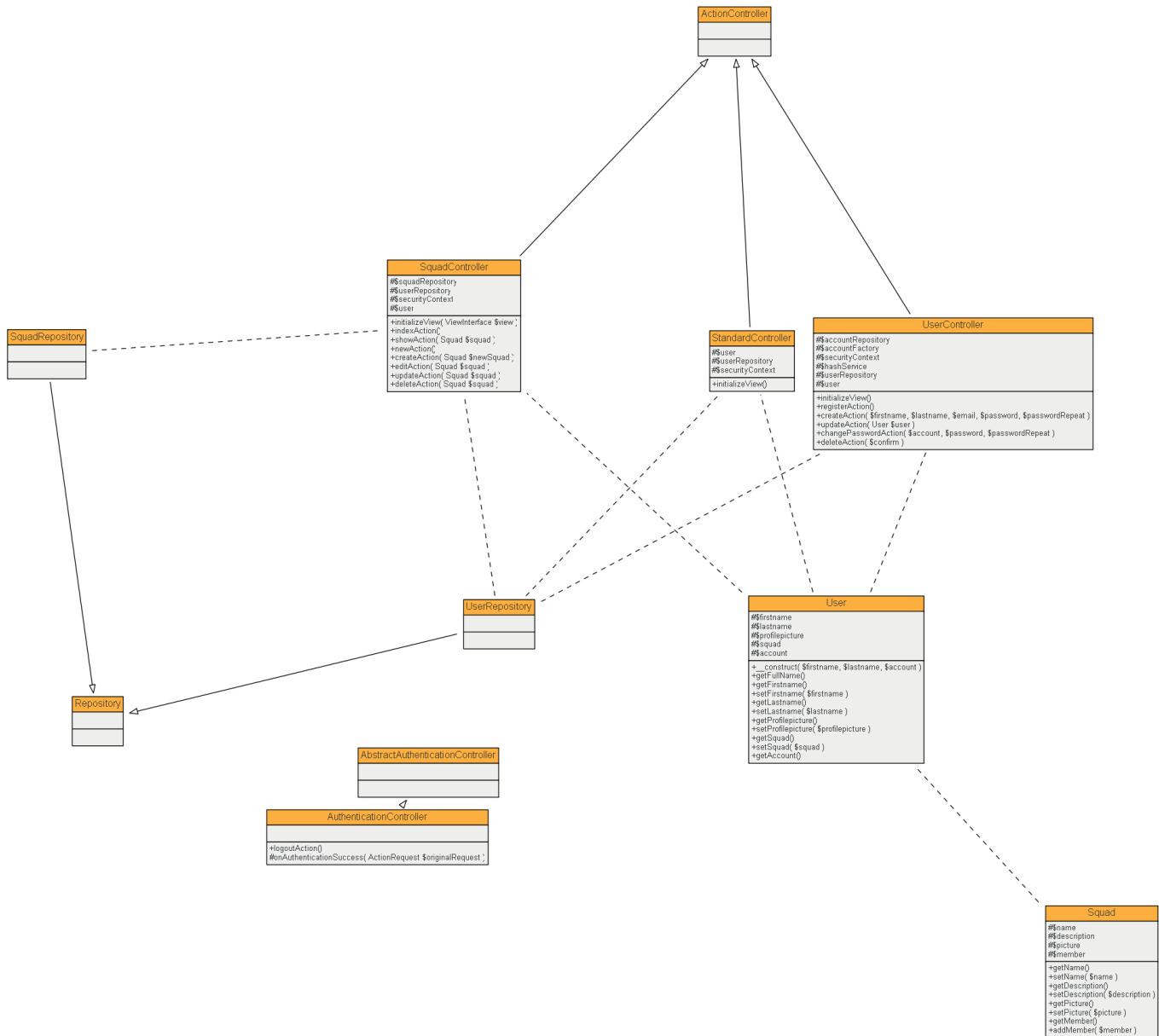
Rico Jambor

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Presenting: First Class Diagram

Hello everyone.

Today we want to present you our first version of our class diagram. Sadly we weren't able to generate it automatically yet. As soon as we're able to, we will modify this blog entry with the necessary information (e.g. screenshot from IDE).



As always you can find the Class Diagram in our GitHub repository.

Cheers, SquadIT.

Updated: November 23, 2016

[Previous](#)[Next](#)**COMMENTS****AnKaLu**

November 23, 2016 at 09:39 AM

Hey there, your class diagram looks really easy to understand. But we would recommend to put more structure to it by placing the classes differently, so it doesn't look like a list.

Best regards AnKaLu

**JoinSports**

November 23, 2016 at 10:22 AM

Hi, it would be nice if the diagram would be created automatically. We needed some time to figure out the right way of doing it too so don't give up.

The diagram itself looks good and is understandable structured as said the controllers look like a list.

Greetings from Team JoinSports

**TheMidnightExpress**

December 04, 2016 at 05:22 PM

Hello SquadIT,

We like your class diagram and the structure in general but it looks kind of spaghetti. Maybe you could rearrange it a little bit so the MVC habit is understandable.

Kind regards TheMidnightExpress

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Comment *

**Jan Syring-Lingenfelder**[Follow](#)

Software Architecture

Hey folks,

we just comited the SAD for SquadIT. Check it out [here](#)

See you :)

📅 Updated: November 28, 2016

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COMMENTS

**BillChill**

November 29, 2016 at 07:29 AM

Hey SquadIT,

your SAD is well prepared and your logical view seems to be well designed.

Best regards BillChill

**Cheetah**

November 29, 2016 at 08:02 AM

Hey, I like your SAD, but in Section 3 I would add still a picture from your MVC tool. For example this is for rails: <https://shijith.files.wordpress.com/2010/09/mvc.png> Cheers

**TheMidnightExpress**

December 04, 2016 at 05:18 PM

Hello Squad IT, we like your logical structure of your SAD and it seems that you really thought about what you are doing. But we like to see a Data View.

Kind regards TheMidnightExpress

LEAVE A COMMENT



Ferdinand Braun

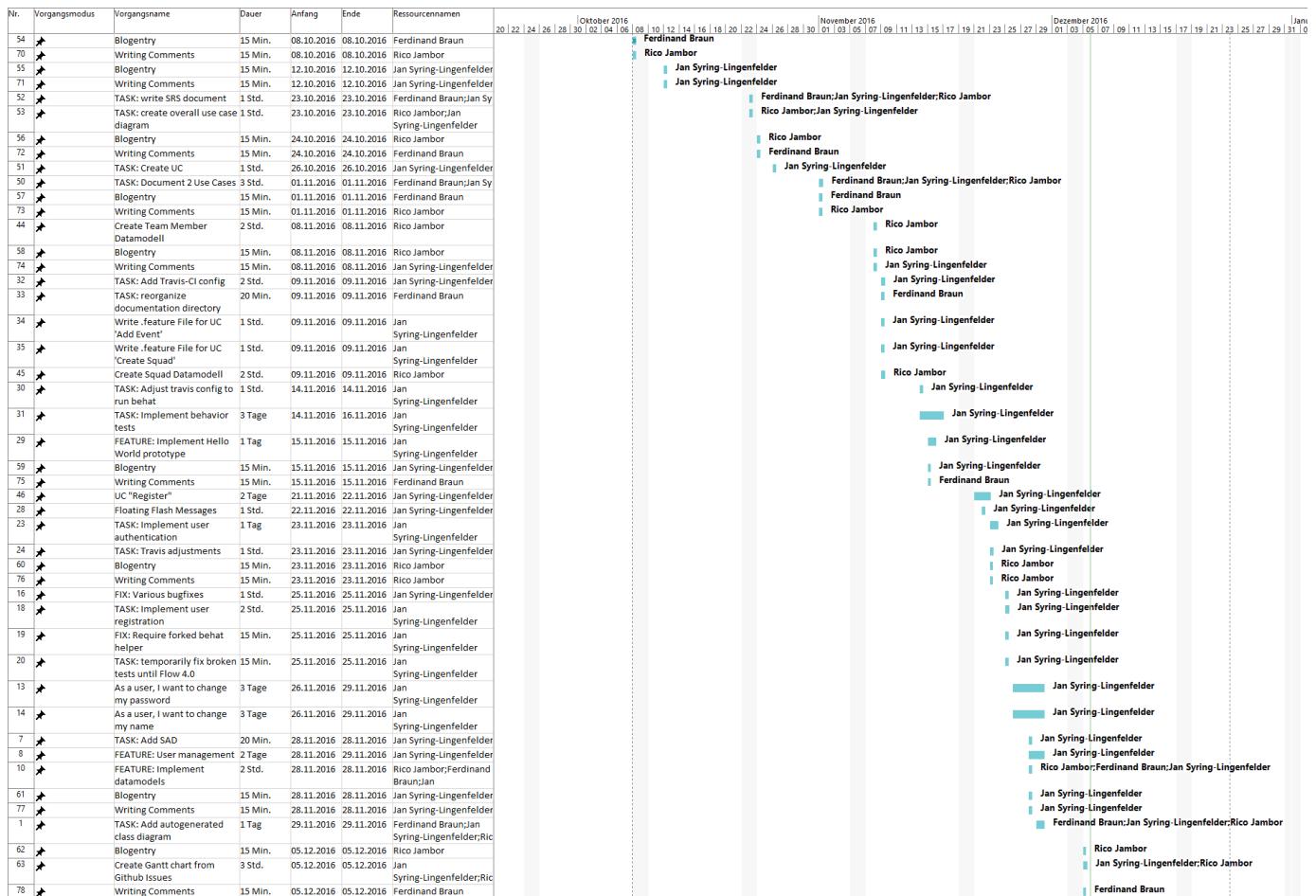
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MS Project: Killing me slowly

Hello fellow students,

To give you an insight into our development process, we are presenting our Gantt chart.

You can check it out right here:



Greetings SquadIT

📅 Updated: December 06, 2016

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COMMENTS

**BillChill**

December 07, 2016 at 07:34 AM

Hey SquadIT,

your gantt chart is with many details and looks pretty good.

Greetings BillChill

**TextVenturer**

December 07, 2016 at 08:08 AM

Hey guys!

I don't see any problems with your Gantt-Chart. Looks really nice and is very detailed!

Keep it up, TextVenturer

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Rico Jambor

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Midterm Break

We hope you're all fine and having a good start into the new year 2017. Today we want to give you an abstract about what we did during the last semester.

Vision & Roles

You can find our Vision [here](#). Our team member roles can be found [here](#)

General

- Software Requirement Specification
- Software Architecture Document
- Use Case Diagram
- Class Diagram
- General Documentation on Github

Project Management

- Gantt Chart
- Burndown Chart

Testing

- Test Cases
- Test Log

Presentation

- Link to our midterm presentation

Demo & Code

- Click [here](#) to get to our live demo
- Our code can be found [here](#)

Updated: December 30, 2016



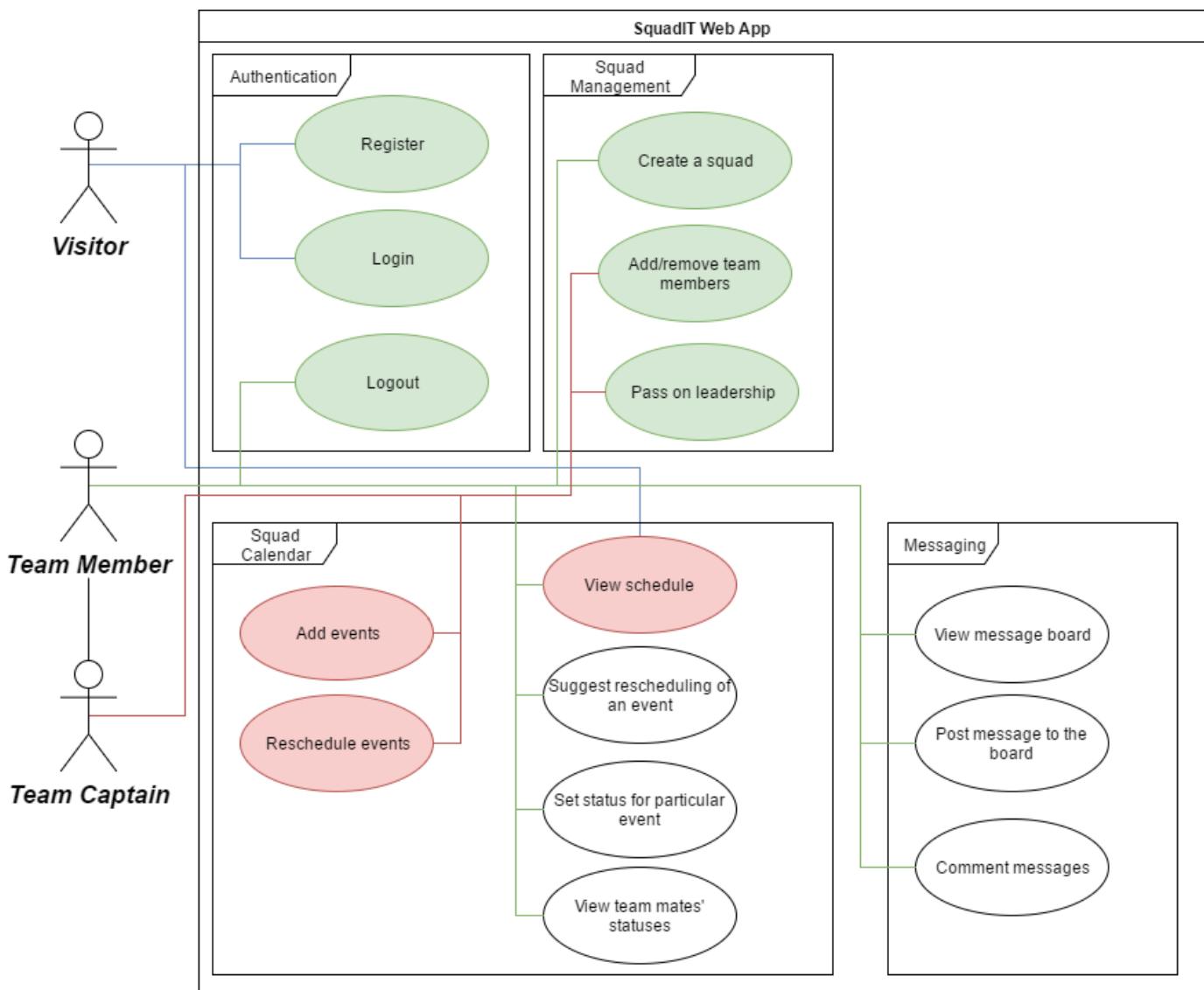
Ferdinand Braun

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Bring it on!

Welcome in the second semester!

We started the semester with defining the scope. Our Use Cases stay as planned in semester one. Below you see our Use Case Diagram. The red marked ones are planned for semester two. The others are optional.



We are looking forward to receive your critics in the comment section.

Greetings

📅 Updated: April 17, 2017



Rico Jambor

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Risk Management

It's dangerous to go alone! Know your risks

Hey guys,

today we want to show you the process we made so far. This week we analyzed our risks in order to be aware of them and to keep track of them.

Identified	Probability of occurrence	Damage	Mitigation strategy	Person in charge	Risk factor
Software Inkompatibilität	50%	5	Abhängigkeiten reduzieren / Neue Releases planen	Tool Specialist	2,5
Kommunikationsprobleme	50%	5	Fragen klären / Miteinander reden	Jeder	2,5
Fehlinterpretationen der Aufgabenstellung	30%	7	Use Cases genau formulieren	Business Process Analyst	2,1
Fehler bei Zeitplanung	30%	5	Regelmäßig Fortschritt/Zeit checken	Business Process Analyst	1,5
Bugs	20%	4	4-Augen Prinzip / CI	Testmanager	0,8
Fehleinschätzung der Risiken	25%	3	Regelmäßige Reviews	Business Process Analyst	0,75
Wissenslücken	10%	7	Regelmäßig Wissen aufbauen/erneuern	Jeder	0,7
Falsche Selbsteinschätzung	20%	2	-	Jeder	0,4
Krankheit	10%	1	Rechtzeitig Bescheid geben	Jeder	0,1
Vorsätzliche Handlungen	5%	2	Zugangsschutz einrichten	Jeder	0,1
Datenverlust	1%	9	Backups / Redundanz	Jeder	0,09
Hardware Defekte	5%	1	Backups / Redundanz	Jeder	0,05

The whole Excel sheet can be found [here](#)

We also thought about our use cases and which we want to implement. We still have not-implemented use cases from the last semester, which we will implement this semester. You can find our overall usecase diagram [here](#).

Keep your eyes open for more. Greetings SquadIT

Updated: April 18, 2017

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COMMENTS



JoinSports

April 19, 2017 at 12:00 PM

Hey SquatIT,

your Excel sheet is well done. You thought about nearly every risk which is a good thing. The new UseCase Diagram is nice to see. I'm missing a legend to see what is already done (I guess it's green).

Thanks for your blog post and see you later again.

Team JoinSports

**Andreas**

April 20, 2017 at 06:44 AM

Hi SquatIT,

thanks for sharring your risk management with us. You seem to have covered almost every risk and thougt also about mitigation strategies. The only thing we are missing is kind of a history so we can check which parts are "already done" and which are still open...

maybe you add this at some point!

regards, andreas - project ortus

**TheMidnightExpress**

June 07, 2017 at 10:42 AM

Hi SquadIT,

we like your Risk Management excel sheet. For us it seems to be fully complete. It's taken care about every risk and you have good strategies. We wish you a lot of success on fulfilling the missing usecases.

regards - themidnightexpress

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Rico Jambor

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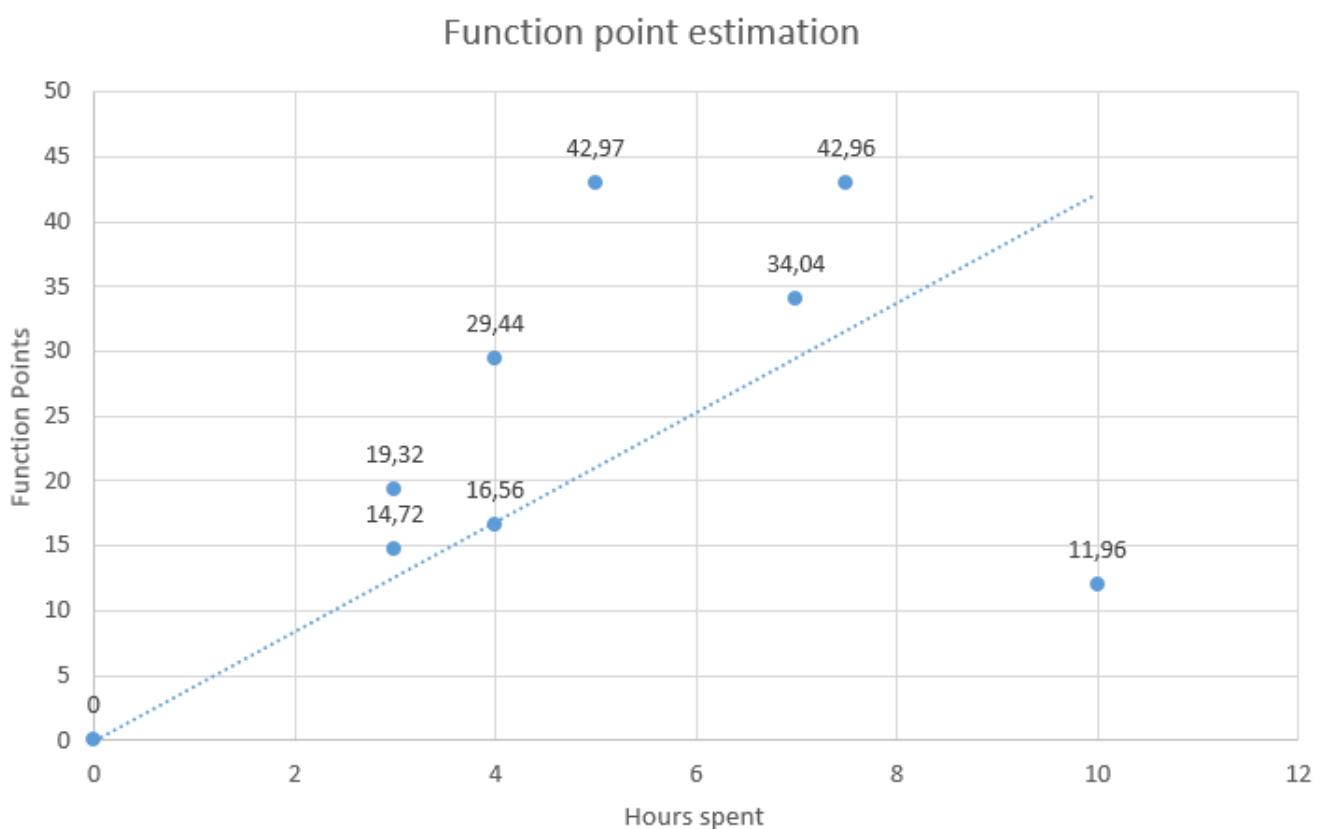
Function Point Estimation

Welcome Back!

Today we want to present you our function point estimation. We used the [FP calculator](#) made by "Tiny Tools" to estimate our function points.

Our FP calculation can be found [here](#).

In the following diagram we connected our logged times with the function points:



You can see that many points are quite far from the trend line. The reason for this is, that on the one hand our Framework (Flow) decreases the workload we have for many use cases (especially CRUDs). On the other hand some features which don't have many function points took a long time to implement (e.g. profile pictures).

Updated: April 30, 2017

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COMMENTS**Waldemar Merk**

May 02, 2017 at 12:35 AM

Hello SquadIT,

Well done so far. Your table for the FP calculation looks good. You could improve it by inserting informations why the complexity is low in all cases. Your FP over spent time Diagramm looks very good too, but I think you should explain here why you have so much 'outliners'.

I like your Idea, keep on!

Best regards, Waldemar

**SquadIT Team**

May 02, 2017 at 06:43 AM

Hey Waldemar,

Thanks for your comment, we will add the missing information to our blog post :)

Kind regards, Rico

**Katharina Maria Luka Josef André Heer**

May 02, 2017 at 08:16 AM

Hi Rico,

your Function Points Estimation looks complete and well structured. Everything on fleek. We would like to know why there are some Points are so far away from the trend line.

Best regards AnKaLu-Team

LEAVE A COMMENT

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Rico Jambor

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Testing our application

We will, we will test you

Today we are going to show you our test cases.

Here you can find our test files. Both, behaviour and unit tests are located there.

Our latest build with test log can be found on [travis-ci](#).

The test-plan can also be found in our [GitHub repository](#). It's currently work-in-progress, so stay tuned.

In the following screenshot you can see the result of phpunit - the testing framework we use - running from the command line:

```
D:\Dev\DHBW\SquadIT-Development>call bin\phpunit.bat -c Packages\Application\SquadIT.WebApp\Tests\UnitTests.xml
PHPUnit 5.4.8 by Sebastian Bergmann and contributors.

Error:      No code coverage driver is available
...I.....I...
Time: 278 ms, Memory: 6.00MB
OK, but incomplete, skipped, or risky tests!
Tests: 11, Assertions: 10, Incomplete: 2.
```

Last but not least you can find our test configuration [here](#).

Looking forward for your comments and stay tuned. SquadIT

Updated: May 07, 2017

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COMMENTS



Waldemar

May 09, 2017 at 07:06 AM

Hi SquadIt,

looks like you have everything under control. Very good - keep up the good work.



BillChill

May 09, 2017 at 08:04 AM

Hi SquadIT

Nice implementation you got there. Everything looks fine so far.

Best regards



TextVenturer

May 09, 2017 at 10:21 AM

Hi SquadIT,

We can see, that you thought about your Testing Methods very thoroughly. So we will give you a big "Good Job" for that!

Don't forget to update your Testing Plan, though.

Greetings, TextVenturer



Team JoinSports

May 16, 2017 at 10:15 AM

Hi Team SquadIT,

congrats that you've got your testing tools running. Very nice that you link to your testing code, test documentation and testing results. Your linked test configuration is a good bonus. Your test plan is not complete right now, we are looking forward to your finished document.

Greetings, Team JoinSports

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Comment *



The SquadIT Team

We're three students at Karlsruhe DHBW, developing this application as a project for the software engineering lecture

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Refactoring

Hi Fans,

as part of the class we did some excercises on refactoring. In the following we will provide the links to our repositories containing our results.

- Jan
- Rico
- Ferdinand

Updated: May 15, 2017

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COMMENTS

**TextVenturer**

May 30, 2017 at 10:36 AM

Hey SquadIT, Your Refactoring looks a little incomplete, in Jan's and Ferdinand's repo there are only 6 commits so there seems to be something missing. Rico's repo seems fine.

Greetings TextVenturer

**BillChill**

June 15, 2017 at 02:03 PM

Hi SquadIT, I think you understood how to refactor. All in all the exercises look very good. Especially Rico's one is very extensive. Keep going!

Greetings BillChill



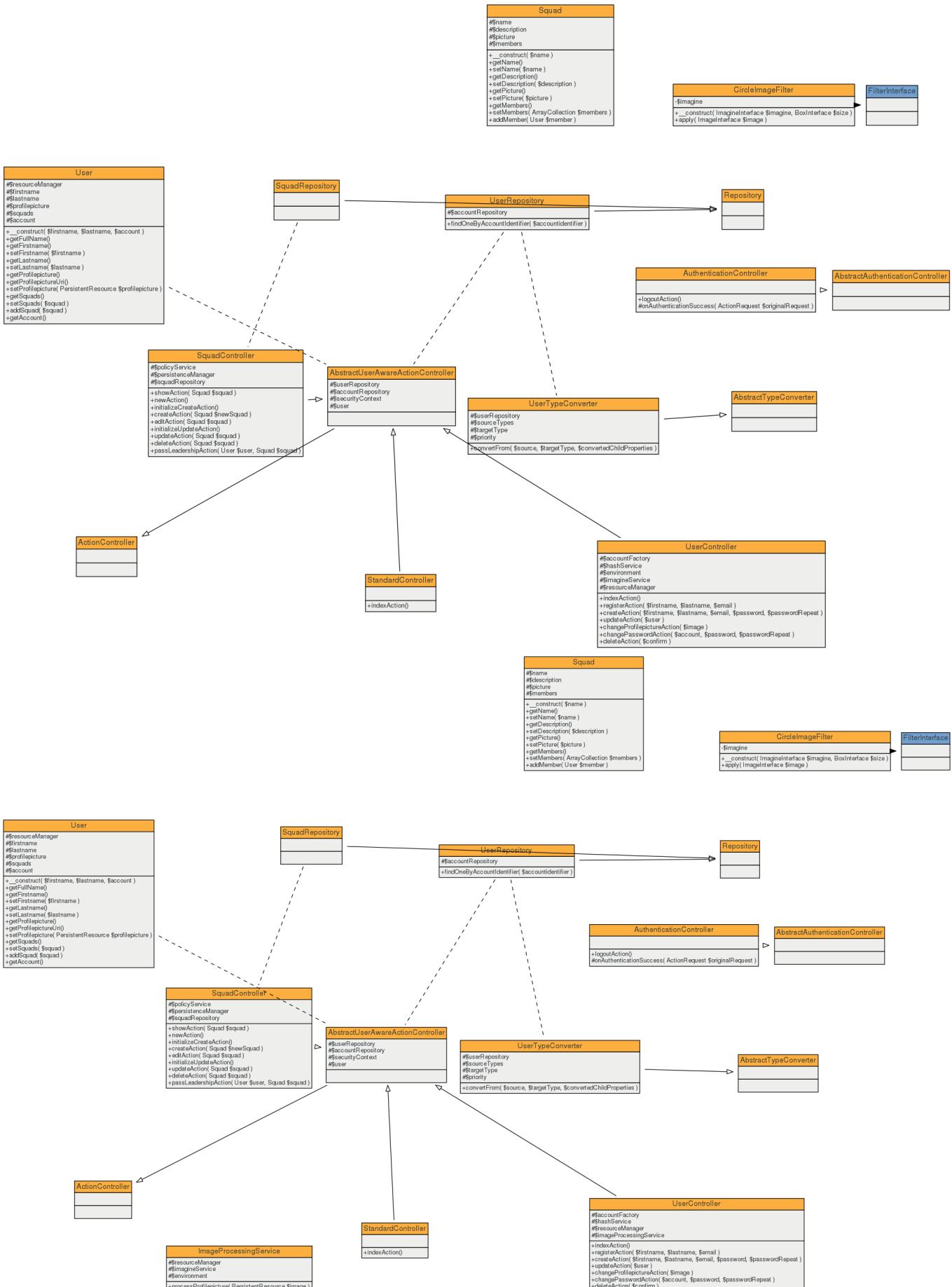
Jan Syring-Lingenfelder

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Pattern work

Hi there,

lately we were looking at some use cases which are not yet implemented. Hereby we noticed, that changing a squad's profile picture would basically involve the exact same logic to process the image as changing a user's profile picture. As changing a user's profile was already implemented in the user controller, we decided to refactor the action and extract the shared logic to a separate service. By that, we will be able to use the service from the user controller and also from the squad controller without implementing the same thing twice. You can see what we changed in the corresponding [pull request](#) on Github. In the following we show the autogenerated class diagrams before and after the refactoring, although unfortunately you can not really see the pattern as the generation of the class diagrams is a bit limited.



📅 Updated: May 22, 2017

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COMMENTS

**JoinSports**

May 23, 2017 at 08:38 AM

Hi SquatIT,

it's nice you provided a link to the Pull Request on Github.

The ClassDiagram looks nice, but could be even better if you use different colors and maybe boxes to show what are the changes by the pattern. (We know it's hard because you used a good framework)

kind regards

Team JoinSports

**Team Ortus**

May 29, 2017 at 09:34 PM

Hi SquadIT,

your work looks great. I would like to see the change more directly (use red markings for example).

Keep it up.

Regards,

Team Ortus

LEAVE A COMMENT

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Comment *



Jan Syring-Lingenfelder

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Code metrics

Hi there,

to keep track of the quality and maintainability of our code base we integrated scrutinizer into our workflow. It integrates nicely into our existing workflow with Github and Travis, as it is also triggered by pull requests and reports status back to Github. You can see the results [here](#).

Some of the reported issues are false positives, like this one [here](#): The analysis found a call to an not existing method. However, the method actually exists but is generated using reflection during runtime. Thus, we can ignore issues like this.

On the other hand, the analysis found an unused parameter in the `setSquads()` method of our user data model. Despite the analysis only reporting unused code, this has a high potential of leading to a bug, so we're obviously going to fix this. (See this and some other minor fixes in this [pull request](#))

You can have a look at the executed inspections and how we improved the code in this [overview](#)

Cheers, SquadIT

Updated: May 27, 2017

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COMMENTS

**AnKaLu Team**

May 30, 2017 at 07:40 AM

Hey SquadIT,

your code metrics looks really good with an overwhelming result! Keep up the nice work! Nothing negative in your post, AnKaLu proofed!

best regards AnKaLu-Team

**TextVenturer**

May 30, 2017 at 10:44 AM

Hey SquadIT, your result looks very good with an index of 9.93. I like the Badge system in your Projekt. Greetings TextVenturer

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Comment *Markdown is supported.**Name *****Email address *****Website (optional)****Submit Comment**

**Rico Jambor**[Follow](#)

Installation Guide

Hey fans,

we finally came to the point where we can offer you a full installation guide which can be found in our [Readme.md](#) of our GitHub repository. Since we know that we're all lazy, we wanted to make it as easy as possible for you and included a link to our [Docker image](#) in the description.

Installing our app is as simple as `docker run -dit -p 8080:80 0rickyy0/squadit`.

If you have any questions, don't hesitate to contact us.

Greetings, SquadIT

Updated: June 18, 2017

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COMMENTS

**Matthias**

June 19, 2017 at 08:41 PM

Can't be easier to Install. Even if you aren't familiar with docker, just follow the steps...

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Rico Jambor

Follow

It's the end of the world as we know it

After another semester full of much new stuff we'll end the project with a last blog post. In the following you can find an abstract about what we did during the last semester.

Vision & Roles

You can find our Vision [here](#). Our team member roles can be found [here](#)

General

- [Software Requirement Specification](#)
- [Software Architecture Document](#)
- [Use Case Diagram](#)
- [Class Diagram](#)
- [General Documentation](#) on Github

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- [Patterns](#) (blog post)
- [Metrics](#) (blog post)
- [Coveralls](#) (test coverage)
- [Scrutinizer](#) (metrics)

Presentation

- Link to our [midterm presentation](#)
- Link to the [final presentation](#)

Demo & Code

- Click [here](#) to get to our live demo
- Our code can be found [here](#)
- [Here](#) you can find our installation instructions - there is also a handy docker container

Our whole blog as pdf can be found [here](#)

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