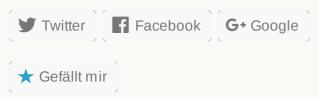
~ Veröffentlicht am 13. Oktober 2016

About us

URING OUR SOFTWARE ENGINEERING LECTURE IN THE third and fourth semester we, a group consisting of three students (Sandra, Sven, Dominik), have to develop an application with our new achieved skills.

Advertisements





Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Software Requirements Specification In "Allgemein"

DB-Schema & Class diagram In "Allgemein"

Jira In "Allgemein"

NEXT ARTICLE The Vision

EIN GEDANKE ZU "ABOUT US"

Pingback: Final Presentation – PoS Systems

Kommentar verfassen

Gib hier deinen Kommentar ein ...

Veröffentlicht am 13. Oktober 2016

The Vision

E ARE PLANNING TO DEVELOP A PRODUCT GROUP BASED cash application for retailers with a small system to manage product groups and employees and a particular area for

Our ambition is to create an application, which fulfills all legal requirements and still is user-friendly. It should deliver all functions needed in a small retail. Therefore the user needs the possibility to create and manage product

statistics.

groups and employee numbers, which are used as identifier in the system. There should also be the possibility to create some statistics with the old selling processes. During a selling process the user can select a product group and the price. After all products are added the user selects the payment methods and finishes the sales process. Different roles decide the access rights for employees. Depending on the rights, a user will be directly redirected to the cash or can decide rather he wants to use the cash or the management system.

The whole project will be divided into some smaller parts. First we want to create a simply cash layout, followed by the logic for the main sales process (e.g. adding some products with price and save them in the database). After that we will expand it by features like sale discount and cancellation. Other necessary parts will be the cash opening, cash check and the cash account closing. After the cash is working, we will go over to the management system, which will be divided by its features.

Depending on our possibility to get hardware like a receipt printer and a cash box, we also try to create a connection to these components.

Advertisements

Teilen mit:



Lade ...

Ähnliche Beiträge

Code Pattern In "Allgemein" **Function Points** In "Allgemein"

Final Presentation In "Allgemein"

PREVIOUS ARTICLE About us

> **NEXT ARTICLE** Technologies and Team Roles

5 GEDANKEN ZU "THE VISION"



Sounds like an interesting project. Your explanation is short and understandable and the objective of your project is clear. How about any subsystems? Can you break your project down in smaller pieces?

★ Gefällt <u>1 Person</u>



POS SYSTEMS sagt:

13. OKTOBER 2016 UM 16:32

It's hard to split it up, because there are a lot of features which are definitely needed and can't be left out, but of course we try it.

We differ between the management system, which doesn't have many features and the more extensive cash system. The management system will be one part itself, but the cash will be divided into smaller steps. First we want to create a simple layout, followd by the logic for the main sales process (e.g. adding some products with price and save them in the database). After that, we'll expand it by features like sale discount and cancellation. Other necessary parts will be the loan, cash check and the cash balance.



★ Gefällt mir

r Antwort



Hey, your project is very useful! I like your detailed description through the work flow.

Do you also think about to add functions to analyse data, like which product is most selled?

Do you also implement the interface to a cash card terminal or a sales slip printer?



Antwort

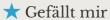


POS SYSTEMS sagt: 17. OKTOBER 2016 UM 16:53

Hey, thank you for your feedback.

We thought about a particular area in the management system with some statistics and the possibility to have a look at the old selling processes. But the implementation depends on the time left because it's not an essential feature. We also have to mention that it's just a cash for product groups, therefore it's not possible to create statistics about specific articles or their EAN.

Our main objection is to create a working cash which also includes the connection to a receipt printer and a cash box, but not a cash card terminal. But right now we don't know how to get the relevant hardware for test purposes without bying them.



rAntwort

Pingback: Final Presentation - PoS Systems

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~ Veröffentlicht am 15. Oktober 2016

Technologies and Team Roles

UR APPLICATION IS GOING TO BE REALISED AS A JAVA web application based on the Spring framework. In the background it will be connected to a MySQL database to store the master data and the data resulting from the selling processes. The IDE of choice will be eclpise with the Spring Toolsuite (STS) plugin, as this is the recommendation of the website "spring.io" and there are a lot of tutorials about the spring framework using this IDE.

CD1			1	
These	are	Our	rol	es.

Designer	Sven Baumann	
Requirements Specifier	All	
Implementer	All	
Deployment	Sandra Kramlich	
Tester	Dominik Schneider	
Project Manager	Sandra Kramlich	
Tool Specialist	Dominik Schneider	
Configuration and Change Manager	Sven Baumann	

Advertisements





Lade ...

Ähnliche Beiträge

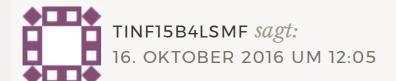
Refactoring In "Allgemein" Final Presentation In "Allgemein"

The Vision In "Allgemein"

PREVIOUS ARTICLE The Vision

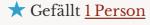
> **NEXT ARTICLE** Software Requirements Specification

4 GEDANKEN ZU "TECHNOLOGIES AND TEAM ROLES"



Hi team,

your role distribution seems pretty solid, all important roles are assigned. The thing you haven't written about is the IDE you are going to use, which would be interesting to know. We are also curious where going to host the finished product.

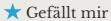


Antwort



Hey, thanks for your comment. Right now we don't know exactly which IDE we will use, but it will be either Eclipse or the Spring Tool Suite (STS). It's also unclear

where exactly we will host the product, but we have some tendencies, which will get more precise in the following days.



r*Antwort*



Hello from MuM,

good job in showing your different roles throughout the project using the correct RUP terminology. Also, you did not forgot to mention that you will use a database to store the information. Good job!

Kind regards, MuM



Antwort

Pingback: Final Presentation - PoS Systems

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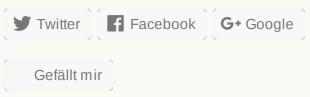
~ Veröffentlicht am 24. Oktober 2016

Software Requirements Specification

HE FOLLOWING LINKS WILL REDIRECT YOU TO OUR Software Requirements Specification and our Use-Case-Diagramm.

Advertisements

Teilen mit:



Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Software Architecture Document In "Allgemein"

DB-Schema & Class diagram In "Allgemein"

First two Use-Cases In "Allgemein"

PREVIOUS ARTICLE Technologies and Team Roles

NEXT ARTICLE First two Use-Cases

5 GEDANKEN ZU "SOFTWARE REQUIREMENTS SPECIFICATION"



Hey there,

There SRS is looking good so far, but perhaps you should maintain the blue fields and add some kind of "tbd" or "n/a", what you have so far looks to be correct, though! Keep it up.

Now, as for the use-case-diagramm, the link you provided is linking to the SRS which doesn't include the diagram - at least if viewed in libre office. Couldn't find it in the github branches either.

Apart from the grading criteria, there's some personal questions that arose from the SRS that shouldn't relate to the lecture at this point in time:

Do you think that 15 minutes to one hour as a mean time to repair is a realistic goal? If so, the customer have to file a report like that with you directly or are you going to implement a "call support" function of some kind?

Also, how long do you think you'll be able to persist the data amassed by your systems? With a sensitive topic such as finances that potentially generate a lot of data, persistance becomes quite tricky. Will you treat that as out of scope for the lecture for now or are you planning on taking any measures in regards to that?

Take care and keep up the good work,

Team Silver to the Screen~



r*Antwort*



Thanks for your feedback. We know that the mean time to repair is quite short and we reconsidered it but the reason for the short time are our users. Our users are retailers which rely on our application. Every minute of a stopped cash means financial loss for them, so minor bugs or problems should be fixed as fast as

possible (<30 minutes) or should be avoided through hotfixes. Therefore a telephone hotline would be the ideal solution as contacting method to minimize the downtime.

We mentioned that our application should fulfill all legal requirements, this includes the data preservation for 10 years and to be picky 13 years. Something like a RAID System as protection against data loss is out of scope for the lecture.



★ Gefällt mir

rAntwort



Your use case diagram looks a little crowded. Maybe you can group up some use cases. e.g. "use-cash-area" includes several other use cases. maybe you could create a "use-cash-area"-group and move the other use cases into it. Another point is that not all use cases contain a verb so they are not ideal. Maybe you should check that. Apart from that the use case diagram looks very detailed and complete.

In your SRS you should replace the blue lines either with your own text, or if you don't know what it is about with n/a (not available) or tbd (to be determined). Your SRS contains all necessary points and the versioning control. All points seem to be correct/realistic, but the repair time of 15 to 60 minutes in case of data loss seems very optimistic. The other way around, one transaction per seconds seems very slow for a financial system. You might want to think about those again.

Kind regards Team of SmartCinema

★ Gefällt 1 Person

r*Antwort*



POS SYSTEMS sagt: 26. OKTOBER 2016 UM 20:54

As I just answered above we reworked our mean time to repair. The repair time also relates to corrupt data which should be possible to recreate in a specific time (<2 hours) in which this isn't allowed by law. Data loss is something more problematic but should be prevented through the application itself. One transaction per second seems slow but depends on how you define the transaction. In our case it includes the whole process after pressing the "paid" button until you're back in the main window to start a new selling process. Therefore the maximum of a second should be realistic.

★ Gefällt mir

Antwort

Pingback: Final Presentation – PoS Systems

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~ Veröffentlicht am 1. November 2016

First two Use-Cases

HE FOLLOWING LINKS WILL LEAD YOU TO OUR FIRST TWO **Use-Cases:**

- 1. Manage Product Groups
- 2. Select between Management- & Cash-Area

Advertisements

Teilen mit:



Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Software Requirements Specification In "Allgemein"

.feature In "Allgemein" Semester Start In "Allgemein"

PREVIOUS ARTICLE Software Requirements Specification

NEXT ARTICLE

Jira

4 GEDANKEN ZU "FIRST TWO USE-CASES"



Hi,

I had a look at your use-case specification and I wasn't able to find any mock-ups... It would be very helpful to get an overview how your application will look like and to understand your flow diagram.

Moreover, I would define user action like "klicks ..." as a own flow bubble, beacuse it's easier to understand.

Keep up your work!

Best regards, Marco Kolb



★ Gefällt mir

Antwort



Your use-case specifications utilize the required templates, and they are very clear and understandable and appear to be properly linked to from the SRS.

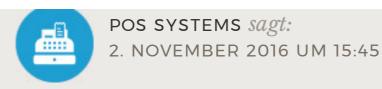
I had some trouble wrapping my mind around the point in the "manage product groups" activity diagram where the lines from the decision node and the line from the starting point merge towards the "Abbrechen" end. Maybe this could be realized using a join node, or you could just drop the direct connection from start to finish because I don't think it conveys anything meaningful (or leave it as is-maybe I'm just the one dumb guy who didn't get it).

By the way, the "manage product groups" use case looks like it actually is a CRUD. If this is indeed the case, you should explicitly call that out in the use-case specification.



★ Gefällt mir

Antwort



Thank you for your feedback. We fixed everything you mentioned except for the mockup. We will make this as soon as possible.



★ Gefällt mir

r*Antwort*

Pingback: Final Presentation – PoS Systems

Kommentar verfassen

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p

~ Veröffentlicht am 9. November 2016

Jira

UR PROJECT IS NOW AVAIABLE ON JIRA.

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Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Testing 2 In "Allgemein"

.feature In "Allgemein" Gantt-Diagram In "Allgemein"

PREVIOUS ARTICLE First two Use-Cases

> **NEXT ARTICLE** .feature

3 GEDANKEN ZU "JIRA"



4ND3R50N *sagt*: 10. NOVEMBER 2016 UM 10:02

Hello possystemsweb,

Your scrum boards seems rightly configures, but its a little bit empty. But you already said in the lession, that you guys wont really focus on jira Π

Well, my suggestion is to add a little bit more cases. Use stories like "develop system X" and add all tasks which are necessary to complete this story. For 3 people it shouldnt be so much efford.

Keep it up!

Sincerely, WhiteCode



r*Antwort*



Hello,

it seems your Jira is configured but you should put some issues and the sprint to cover some of the grading criteria

-Project Centaur



Antwort

Pingback: Final Presentation – PoS Systems

Kommentar verfassen

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~ Veröffentlicht am 16. November 2016

.feature

FIRST TWO FEATURE FILES ARE AVAIABLE NOW:

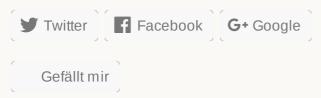
- 1. Select between Management- & Cash-Area
- 2. Manage Product Groups

PoS Systems

For proof of autocompletion, please click here.

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Teilen mit:



Sei der Erste dem dies gefällt.

NEXT ARTICLE DB-Schema & Class diagram

3 GEDANKEN ZU ".FEATURE"



Hey guys,

we took a look at your .feature-files and they seem to be in legit cucumber spelling. Also they reproduce the flow your described in your use case documents.

The auto completion/syntax highlighting works, too.

Unfortunately, the links in your use case documents aren't clickable. But it shouldn't

be that hard to fix this, right?!

Keep up your good work! SmartCinemaProject

★ Gefällt mir

Antwort



Hello from MuM,

your .feature files look good and it looks like they use a legit syntax. Also, you have multiple scenarios for each usecase. The proof of autocompletion also fine, good job!

Kind regards, MuM.

★ Gefällt mir

Antwort

Pingback: Final Presentation - PoS Systems

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~ Veröffentlicht am 21. November 2016

DB-Schema & Class diagram

HIS WEEK WE CREATED OUR DB SCHEMA AND OUR CLASS diagram.

Both were desgined with MS Visio 2010.

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Lade ...

Ähnliche Beiträge

Software Requirements Specification In "Allgemein"

First two Use-Cases In "Allgemein"

Gantt-Diagram In "Allgemein"

PREVIOUS ARTICLE .feature

NEXT ARTICLE

4 GEDANKEN ZU "DB-SCHEMA & CLASS DIAGRAM"



Hi POS Team,

your database schema looks good but we found a few points about your class diagram. At first we needed to include at least five classes. I admit that you did exactly five but you should create classes for all five use cases that you promised to do until christmas. I'm not sure if you can cover five use cases with those classes.

As a second point we are missing some kind of proof that you did generate the UML instead of drawing it by hand, for example you could add a screenshot.

Apart from those points the diagram contains attributes and methods and uses correct syntax.

Kind regards!

Team of SmartCinema



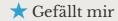
rAntwort



POS SYSTEMS sagt:

24. NOVEMBER 2016 UM 11:42

For the UC we've defined to do until christmas the shown calsses are all we need. More classes will follow when we start to implement the management area.



Antwort



Hi,

it is nice that you have a DB-Schema.

you have enough classes, but maybe you will later notice that you need more of them. In summary it looks okay in comparison with the Grading Criteria. Kind regards.

★ Gefällt mir

r*Antwort* Pingback: Final Presentation - PoS Systems Kommentar verfassen Gib hier deinen Kommentar ein ... Folgen Erstellt mit WordPress.com.

PoS Systems

~ Veröffentlicht am 24. November 2016

Software Architecture Document

OU CAN FIND OUR SOFTWARE ARCHITECTURE DOCUMENT here.

Right know we're having some trouble to autogenerate the classdiagram but it will follow.

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Ähnliche Beiträge

Software Requirements Specification In "Allgemein"

Testing 2 In "Allgemein" About us In "Allgemein"

PREVIOUS ARTICLE

DB-Schema & Class diagram

NEXT ARTICLE Gantt-Diagram

4 GEDANKEN ZU "SOFTWARE ARCHITECTURE DOCUMENT"



Hey guys,

according to our grading criterias there were some additional fields to fill in our SAD. Section 2,3,5,7,9 had to to be filled accordingly.

As far as i have noticed, point 3 is missing the MVC Tool you are using, as well as point 7 is missing your DB diagram (UML) in case you use a DB.

Everything else seems to be in order.

Regards **LSMF**



★ Gefällt mir

Antwort



Hi PoS,

As the other comment already mentioned your SAD ist still incomplete. Apart from that you were supposed to generate the first CRUD and have a demo of you first use case publicly available. Do you have something like that? I couldn't find a link or anything else pointing in that direction.

Kind regards **SmartCinema**



★ Gefällt mir

Antwort



Simply on-line bank things out ... love the photos!

I attempt to learn by looking at other images, also.

http://Ownertramp86.Qowap.com/3036428/fast-programs-for-gadget-insurancecompare-a-closer-look

★ Gefällt mir

Antwort

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~ Veröffentlicht am 6. Dezember 2016

Gantt-Diagram

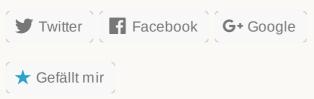
HIS WEEK WE TRIED TO EXPORT OUR JIRA DATA TO CREATE a Gantt-Diagram but unfortunately it didn't work. So we created it by mostly by hand:

Gantt-Diagram .mpp / .pdf / .gif

We also had some changes in our scope.

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Ähnliche Beiträge

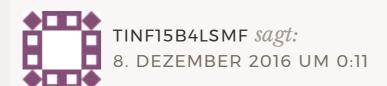
DB-Schema & Class diagram In "Allgemein"

Testing 2 In "Allgemein" Semester Start In "Allgemein"

PREVIOUS ARTICLE Software Architecture Document

> **NEXT ARTICLE** Semester Start

3 GEDANKEN ZU "GANTT-DIAGRAM"



Hello,

Your Gantt diagramm looks very nice, you even wrote in the assigned person, which wasn't really needed since according to the grading criteria "no handcrafting [was] necessary".

Good work, keep it up,

SilverScreen



★ Gefällt mir

Antwort



NEXTSMARTIDEA *sagt:* 8. DEZEMBER 2016 UM 9:52

Hey,

as requested you set up a MSProject. Your tasks have dates and you associated persons with them.

There are also milestones existing and you separated your tasks with phases. Finally you did a good. But it would be better to have just one picture with all tasks.

Greetings, NextSmartIdea



★ Gefällt mir

Antwort

Pingback: Final Presentation – PoS Systems

Kommentar verfassen

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~ Veröffentlicht am 5. April 2017

Semester Start

IRST OF ALL YOU GET THE LINK TO OUR MIDTERM presentation: Presentation.

For the start of the new semester we thought of some little changes.

Technologie changes:

We will exchange our MVC Model from Spring to JSF because of easier

usage.

Scope changes:

Use Case Diagram

Advertisements

Teilen mit:



Lade ...

Ähnliche Beiträge

About us

In "Allgemein"

Testing 2

In "Allgemein"

Gantt-Diagram

In "Allgemein"

PREVIOUS ARTICLE Gantt-Diagram

> **NEXT ARTICLE** Risk Plan

EIN GEDANKE ZU "SEMESTER START"

Pingback: Final Presentation - PoS Systems

Kommentar verfassen

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~ Veröffentlicht am 11. April 2017

Risk Plan



our first task is to find out what risks we have to avoid in our project:

Risk Management

Next we tried to estimate our time spent on each use case.

Use Case Estimation

Our new use cases for this semester are:

- UC Cash Opening Entry
- UC Cash Check
- UC Close Cash Accounts
- UC Select between Management- and Cash- Area

Here you can find our whole scope.

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Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Final Presentation In "Allgemein"

Function Points In "Allgemein"

The Vision In "Allgemein"

PREVIOUS ARTICLE Semester Start

> **NEXT ARTICLE** Function Points

4 GEDANKEN ZU "RISK PLAN"



Hey guys,

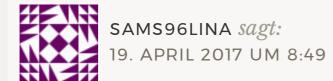
great job you are doing there! A very convincing list of risks and nice ideas to mitigate them. The risk factor column looks somewhat odd to me though. The factor, which is calculated as (impact x probability) should normally end up somewhere between 0 and 10. If you measure your probability in percent the numbers must add up.

Good luck with your project!

Cheers, Danny



r*Antwort*



Hey guys,

you have made a great job! It's very good to have a good and detailed risk plan and your's looks very great! Your Use Cases are make with a lot of work that I can see.

Greetings WhiteCode



★ Gefällt mir

Antwort



NEXTSMARTIDEA *sagt:* 19. APRIL 2017 UM 10:26

Hey guys,

your risk management looks good you have mentioned lots of points. According to the task it should be sorted by highest risk factor and you could give each risk a clear description.

According to the table with the time you spent on each use case you have implemented just two use cases?

Your use case documents are looking good and you have also some feature files which were not even necessary.

King regards, NextSmartIdea



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~ Veröffentlicht am 24. April 2017

Function Points



E CALCULATED OUR FUNCTION POINTS FOR EVERY USE case with "Tiny-Tools".

The fowolling link shows our use case estimation added with the function points:

Estimation

This is our Complexity Adjustment Table:

Complexity Adjustment Table

ITEM	COMPLEXITY ADJUSTMENT QUESTIONS	No Influence		SCALE			E	
		0	ence 1	2	3	4	Essential 5	
1	Does the system require reliable backup and recovery?	0			•			
2	Are data communications required?		0	•		0	0	
3	Are there distributed processing functions?	0	•		0		0	
4	Is performance critical?	0	0	•	0		0	
5	Will the system run in an existing, heavily utilized operational environment?	•	0	0	0	0	0	
6	Does the system require on-line data entry?	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	
9	Are the inputs, outputs, files or inquiries complex?	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	
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					•	

Here you can see how we calculated everything:

- 2. For transactions (EI, EO, and EQ), the rating is based on the FTR and DET.
 - 1. FTR The number of files updated or referenced.
 - 2. DET The number of user-recognizable fields.
 - 3. Based on the table below, an EI that references 2 files and 10 data elements would be ranked as average.

-TOI-	DET's					
FTR's	1-5 6-15		>15			
0-1	Low	Low	Average			
2-3	Low	Average	High			
>3	Average	High	High			

- 3. For files (ILF and ELF), the rating is based on the RET and DET.
 - 1. RET The number of user-recognizable data elements in an ILF or ELF.
 - 2. DET The number of user-recognizable fields.
 - 3. Based on the table below, an ILF that contains 10 data elements and 5 fields would be ranked as high.

DETI	DET's					
RET's	1-5	6-15	> 15			
1	Low	Low	Average			
2-5	Low	Average	High			
>5	Average	High	High			

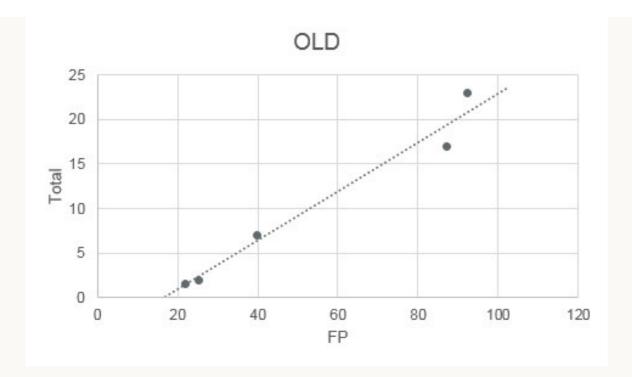
Here are our already implemented use cases:

- Selling Process
- Cash Check

There are the estimations we made for our following use cases

- Cash Opening Entry
- Close Check Accounts
- Select Between Management- And Cash-Area

As you see in our FP and Time calculation we have no explicit outliners:



Link to Excel Sheet

Advertisements





Ähnliche Beiträge

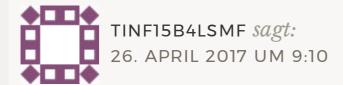
Final Presentation In "Allgemein"

Risk Plan In "Allgemein" Code Pattern In "Allgemein"

PREVIOUS ARTICLE Risk Plan

> **NEXT ARTICLE** Testing

5 GEDANKEN ZU "FUNCTION POINTS"



Moin moin.

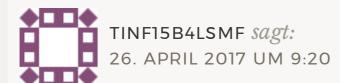
Looking good, looking good! What you should perhaps add, is an explenation about your weighting factors for the use-cases.

Other than that, if your estimation in the table up to are adjusted for the function points, the rest should be just fine.

Tschöööööö.



Antwort



Just saw that you added the explanation about the weighting factors just now, now that's some quick reaction time. Well done, guess my critique is null and void now.



Antwort



Great work you did there! You showed all the calculations and the estimations for new use cases and I believe you completely fulfill the grading criteria.



Antwort



Hi, your blog entry looks very good and especially the graph is very nice. I aggree with SMARTCINEMAPROJECT that you fulfill the grading criteria.



r*Antwort*

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Veröffentlicht am 3. Mai 2017

Testing

HIS WEEK WE'VE THREE NEW LINKS FOR YOU:

- 1. Test code
- 2. We don't have a screenshot, but we've already the visualization of our tests
- 3. Maven file
- 4. RUP Test Plan

Teilen mit:



Sei der Erste dem dies gefällt.

PREVIOUS ARTICLE Function Points

> **NEXT ARTICLE** Refactoring

4 GEDANKEN ZU "TESTING"



Hey PoS,

that's a rather minimalistic blog post, but you seem to have everything except a screenshot proving that you can run your tests in your IDE, you might want to add that still as it is part of the grading criteria. The Test Plan document also still needs some work, but that's understandable at this point, every group only has a draft version right now. Otherwise good job!

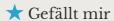
Cheers



r*Antwort*



Thanks for the comment. We haven't a screenshot, because we've already visualized our test, but unfortunately we forgot to mention it [] Now everything should be fine []



r*Antwort*



Hey PoS,

I can just justify the former comment!

Greetings, sams96lina

★ Gefällt mir

Antwort

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Refactoring

EY GUYS,

in our last lesson we learned some thinks about code smells and refactoring.

So we tried to learn and use it with the book Refactoring. For every step we made is a new commit that everyone can see what we did step by step.

Here you can find the links to our repositories:

Repository Name

Sven Baumann Fowler

Sandra Kramlich SWE-Homework

Dominik Schneider Fowler

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Teilen mit:

Twitter Facebook Google

Gefällt mir

Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Final Presentation

In "Allgemein"

Metrics

In "Allgemein"

Function Points

In "Allgemein"

♦ PREVIOUS ARTICLE Testing

NEXT ARTICLE ▶

Code Pattern

4 GEDANKEN ZU "REFACTORING"



Hey there,

the refactoring you guys done looks pretty good. The commits you done are clearly seperated and don't touch to much code, so it's easy to follow your work step by step. The only thing im missing is, a little explanation why you guys done this refactoring projects. It would be very interesting.

Kind regards smartCinema



Antwort



Hey,

According to the grading criterias your team has to provide one refactored project per member, which you have.

You have several commits, each with comment, while removing the code smells step by step.

This also seems to be in order and executed properly.

Considering all this, your work is fully capable of receiving the full amount of points.

Go get them!

Regards LSMF



★ Gefällt mir

Antwort



MMIO *sagt:* 17. MAI 2017 UM 10:24

Hello,

everyone of you guys has linked a GitHub Repo and has enough commits. Your commit messages are looking good aswell.

Regards mMio



★ Gefällt mir

Antwort

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Code Pattern

HIS WEEK WE LEARNED ABOUT CODE PATTERNS AND THEIR importance.

As homework we had to decide for a fitting code pattern for our project and to implement it.

Given our project, which is using the MVC model and realising a cash system, it wasn't that easy to find a fitting pattern. The best patterns would be

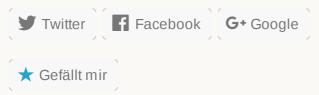
"Observer" and "Singleton", because of a static UI which uses a lot of dialogboxes to interact with the user. But these two doesn't count in our SWE class so we searched for another one. Unexpectedly we found another one, the "Chain of Responsibility,, which was fitting quite well and was already implemented due to the "Count" class. With this pattern, the classes should get much smaller.

Here you can see our class diagram.

Here you can see the code.

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Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Final Presentation In "Allgemein"

Metrics In "Allgemein" Refactoring In "Allgemein"

PREVIOUS ARTICLE Refactoring

> **NEXT ARTICLE** Metrics

3 GEDANKEN ZU "CODE PATTERN"



You chose a pattern that you had already impemented – which is fine, I think, although the grading criteria say that we are supposed to refactor existing code to conform to a new pattern.

Because you already implemented the pattern from the start, you logically can't have any before/after class diagrams. Which is unfortunate but I guess that's just how it is.

I'm missing a more detailed explanation of WHY the pattern fits so well here – are more smaller classes generally preferable over fewer bigger classes, or does the pattern reduce the overall code size?

It would also be very cool to have a link to the relevant code.



Antwort



Everything smartcinema said is right and it would be great if the class diagram was a bit more readable, for example hide the getter and setters, so the classes are smaller and easier to understand.

Except for that you integrated the design-pattern good, and it looks like it will help you in the future.

Kind regards Janik from FactRacing

★ Gefällt mir

Antwort

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Veröffentlicht am 24. Mai 2017

Metrics



Today we present you our integration of a code metrics tool into our building process. A code metrics tool measures quality of code by a preset set of criteria and helps in writing more readable, more secure and easier to maintain code and warns you of very bad practises. Examples here were overriding the equals method of a java class whilst not also overriding the

hashCode method, which can lead to unexpected behaviour in hashmaps or other data structures, where the hashcode method is used to differentiate the classes.

The metrics tool of our choice is SonarQube as it is easy to integrate into maven builds and has many well defined code quality criteria. SonarQube works by analyzing code on a SonarQube server an showing the results on a website. For our project we used the dhbw Karlsruhe SonarQube server to host the metrics of our code. Integrating it into maven is as easy as putting the SonarQube server's URL and the programming language our code is written in (i.e. java) as properties into our pom.xml and running mvn sonar:sonar. The results of our code analysis can be seen here.

Of course we integrated our SonarQube workflow into our automated building process hosted by Travis-CI. Interested readers can view the state of our builds here and can even read building logs.

You can find our Test-Plan document here.

Sonar showed us some issues with our code, so we had a better look at it.

Some things, which were criticized, were array lists with an explicite type. It said it would be more dynamic without it, but in our project it isn't necessary so we left it out.

Another point were the empty constructors in two classes:



The empty consturcor is there, because it's meaningful to have have it just in

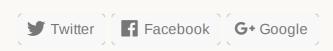
case. So, like suggested, we added a comment to explain why these

constructors exist:

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```
public ProductGroup() {
    //just in case
public Employee() {
   //just in case
```

Teilen mit:



Sei der Erste dem dies gefällt. Lade ...

Ähnliche Beiträge

Final Presentation

In "Allgemein"

Code Pattern

In "Allgemein"

Refactoring

In "Allgemein"

PREVIOUS ARTICLE Code Pattern

> **NEXT ARTICLE** Testing 2

3 GEDANKEN ZU "METRICS"





Hey,

your work this week is very good.

You almost pass all grading criterias. Only thing is that you missed the link to your testplan-document.

Also interesting is that the DHBW Karlsruhe SonarQube server is working for you, we had problems with it.

Kind regards



★ Gefällt mir

Antwort



Hey guys,

your blog post seems to fullfill all grading criterias and everything was done correctly. What is still missing is your testplan doc, which should be linked in this post but will be in the next post anyway as well.

Regards

LSMF



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Testing 2



We are using SonarQube to calculate our test coverage which is at 37% at the moment. It is recalculated on every push to our master branch.

Also, take a look at our Test-Plan document which describes the different tests we are using.

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Teilen mit:



Lade ...

Ähnliche Beiträge

Testing In "Allgemein" **Installation Test** In "Allgemein"

About us In "Allgemein"

PREVIOUS ARTICLE Metrics

> **NEXT ARTICLE** Installation Test

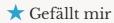
3 GEDANKEN ZU "TESTING 2"



Hello guys,

A coverage of 37% is pretty godd but I think you linked the Testing plan of another group.

Greetings, Tinfl5B4LSMF



Antwort



Hello from MuM,

great job with the 37% code-coverage. However, a little proof would be nice;). We can also just find two tests in your Testplan, but we assume that you did not figure out which test to use for the third one. The same applies to us, so we are not in the right position to judge anyone.

Except for that, great job!

Kind regards, MuM.



r*Antwort*

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Installation Test

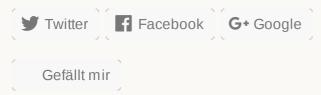


E HAVE PREPARED A DOCKER CONTAINER WITH

installation instructions in our Github Readme.

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Sei der Erste dem dies gefällt.

Ähnliche Beiträge

DB-Schema & Class diagram In "Allgemein"

Software Requirements Specification In "Allgemein"

First two Use-Cases In "Allgemein"

PREVIOUS ARTICLE Testing 2

> **NEXT ARTICLE** Final Presentation

4 GEDANKEN ZU "INSTALLATION TEST"



We did it: http://i.imgur.com/O6ttRBR.png



Antwort



Oh shit wrong link: http://i.imgur.com/9StNoXj.png

★ Gefällt mir

Antwort



We did it too and it worked well.

Installation was fast, except for download time.

Prove: https://imgur.com/a/99ba5

You should note, that it is easy to lose money with negative prices.

Greetings FactRacing

★ Gefällt mir

Antwort

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~ Veröffentlicht am 17. Juni 2017

Final Presentation



our project is finished! Here you have an overview of our doing.

Have fun!

The PoS System Team! (Baumann Sven, Kramlich Sandra, Schneider

Dominik)	
Requirements:	
UC	Overall Use Case Diagram And here are the links to each of our use cases: Selling Process Cash Check Cash Opening Entry Close Check Accounts Select Between Management- And Cash-Area
SRS	SRS
Test Cases	Features Files
Test Log	Features Files
Testcoverage PRO version Are you a developer? Try out the HTML to PDF API	Test Coverage

Test Plan Test Plan **Functional Test** Features Files In Test Plan Unit Test **Unit Tests** One other test User Interface Testing **Project Management** RUP gantt chart (past) **Gantt Chart** future long-term plan using FP estimation Use Case Estimation **Graph for Estimation** Jira Jira Burndown Example Burndown

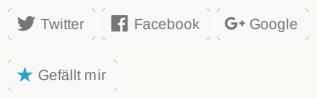
FP Calculation
Function Points Blog
Do the Installation and try it yourself!
Code in Github
Code in Gimub
Installation
DB Schema
Deployment Diagram
SAD
Code Pattern Blog

Configuration Management/ Environmenta Setup	al Part in SRS
Metrics	Metrics Blog
Risk Management	Risk Management
Automated Testing	Travis for automated Testing
Automatic Deployment	Automated Deployment with Docker
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- .feature
- DB-Schema & Class diagram
- Software Architecture Document
- Gantt-Diagram
- Semester Start
- Risk Plan
- Function Points
- Testing
- Refactoring
- Code Pattern
- Metrics
- Testing 2
- Installation Test

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Sei der Erste dem dies gefällt.

Ähnliche Beiträge

Function Points In "Allgemein"

Risk Plan In "Allgemein" Metrics In "Allgemein"

PREVIOUS ARTICLE Installation Test

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