Project 4 - Planning Document Project Data

Project Name	SpecItem Database
Online team meeting (12:15)	https://fau.zoom.us/j/66249135424?pwd=aUpvTE9yT3BpQ3hLSkNnWjIxNERpZz09
Production system (if any)	
Test system (if any)	
GitHub repository	https://github.com/amosproj/amos2022ws04-specitem-database
GitHub feature board	https://github.com/users/Inrd96/projects/1/views/1
GitHub impediments backlog	https://github.com/orgs/amosproj/projects/10/views/1
Team T-shirt (white)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/f380b679-5089-4b5d-b5c8-83d2e3239fba
Team T-shirt (black)	https://www.shirtinator.de/t-shirts/gestalten/t-shirt-bedrucken#/load/share/a0cb99d2-b874-4e52-a7c3-38f83ff33c04
Additional materials	

Project 4 - Planning Document Project Team

Last Name	First Name	GitHub User Name	Email Address
Kotsev	Georgi	gogokotsev00	g.kotsev@campus.tu-berlin.de
Nguyen	Kevin Ky Anh	kevinnguyen20	k.nguyen.2@campus.tu-berlin.de
Vu	Duc Thai	thaivd1309	v_ducthai@win.tu-berlin.de
Niezgódka	Dawid	dawidniezgodka	d.niezgodka@campus.tu-berlin.de
Malliaros	Nikolaos	nikomall34	niko.malliaros@fau.de
Fischer	Leonard	Inrd96	leonard.fischer@fau.de
Wittig	Tobias	twittig	t.wittig@campus.tu-berlin.de
Eren	Kubilay	kubieren	kubi00358@gmail.com
Rosenberger	Julian	julianrosenberger	julian.rosenberger@fau.de

Project 4 - Planning Document Role Assignments

#	Meeting Day Product Owner	Software Developer	Release Manager	Scrum Master	Comment
1	2022-10-19 Leonard Fischer, Niko	Malliaros Everyone else	N/A	Julian Rosenberger	
2	2022-10-26 Leonard Fischer, Niko	Malliaros Everyone else	Duc Thai Vu	Julian Rosenberger	
3	2022-11-02 Leonard Fischer, Niko	Malliaros Everyone else	Tobias Benjamin Wittig	Julian Rosenberger	
4	2022-11-09 Leonard Fischer, Niko	Malliaros Everyone else	Kubilay Eren	Julian Rosenberger	
5	2022-11-16 Leonard Fischer, Niko	Malliaros Everyone else	Georgi Kotsev	Julian Rosenberger	
6	2022-11-23 Leonard Fischer, Niko	Malliaros Everyone else	Dawid Niezgódka	Julian Rosenberger	
7	2022-11-30 Leonard Fischer, Niko	Malliaros Everyone else	Duc Thai Vu	Julian Rosenberger	Mid-term due
8	2022-12-07 Leonard Fischer, Niko	Malliaros Everyone else	Kevin Nguyen	Julian Rosenberger	
9	2022-12-14 Leonard Fischer, Niko	Malliaros Everyone else	Tobias Benjamin Wittig	Julian Rosenberger	
10	2023-01-11 Leonard Fischer, Niko	Malliaros Everyone else	Kubilay Eren	Julian Rosenberger	
11	2023-01-18 Leonard Fischer, Niko	Malliaros Everyone else	Georgi Kotsev	Julian Rosenberger	
12	2023-01-25 Leonard Fischer, Niko	Malliaros Everyone else	Dawid Niezgódka	Julian Rosenberger	
13	2023-02-01 Leonard Fischer, Niko	Malliaros Everyone else	Kevin Nguyen	Julian Rosenberger	
14	2023-02-08 Leonard Fischer, Niko	Malliaros Everyone else	Duc Thai Vu	Julian Rosenberger	Demo day!
15	2023-02-15 Leonard Fischer, Niko	Malliaros Everyone else	Tobias Benjamin Wittig	Julian Rosenberger	Retrospective

Project 4 - Planning Document Team Contract

Goals	Valuable product that the company could make use of - the product being the result of a collaborative effort					
	No one is left behind					
Meeting norms	Focus and concentration					
	Meetings are mandatory, if unavailable excuse early					
	Be on time at 12:15 on Wednesdays					
	Turn camera on (at least) while talking (except for techniqual issues)					
Working norms	Criticism and reviews should be given in the team meetings					
	Weekly contribution (a possible exception like holidays, private matters, etc.)					
	Working at a durable steady pace, minimize the unspecified work					
	Features are voluntary picked up by SDs, not assigned					
	If SD cannot complete task within deadline, he must let others know ASAP (in Discord)					
Coordination norms	Product Owners lead the Team Meetings and keep Team on track, Product owners priorize the work load (tickets)					
	Assign each task to a specific person; make sure they know what has to be done; PO make sure people are on track					
	Work division in Team Meeting					
Communication norms	Openness					
	Discord - different channels for separate matters; try to forewarn about the absence so that work can be divided					
	E-mail is used for communication with industry partner (cc: amos-team4@group.riehle.org)					
	Make use of Stand-up-Emails :-)					
	No Interrupting					
Consideration norms	If disaggrements appear, handle by public voting discuss together					
Cont. improvement norms	Commitment					
	The teams progress will be tracked through weekly updates during the meetings					
	When someone is inactive, reach to him, if this does not solve the problem, have discussion with the team and decide how to proceed					
	Feedback					
	Reflect together on how to improve: Retrospective Phase in Team Meeting :)					
Rewards	We celebrate each others successes and value outstanding commitment					
Sanctions	Violating the group norms should be fined by making the member apologise to each of his teammates publicly					
Signatures:	Leonard Fischer, Tobias Wittig, Kevin Nguyen, Kubilay Eren, Georgi Kotsev, Nikolaos Malliaros, Julian Rosenberger, Dawid Niezgódka, Duc Thai Vu					

Project 4 - Planning Document Product Goal

Product Vision	Project Mission
The development partnership AUTOSAR, consisting of several hundred member companies, establishes and provides standards for software, exclusively for automotive electronic control units. These standards are, for example, represented in the form of specification documents that contain technical requirements. The firm Develop Group is working with these documents and claims that the practical handling of them has potential to be facilitated. The objective of the "AMOS SpecItem project" is to provide the possibility to easily search, edit and compare the technical requirements present in the specification documents. This is realized with a specially created database whose content can be accessed in an interactive UI. The overall usability of the system is enhanced by its accessibility through communication protocols. Users of this solution benefit from an enormous facilitation in maintenance of the requirement items.	Maintaining SpecItems is simplified by creating an online database with a browser-based frontend. The user is able to view the SpecItems in the browser. They can also search for specific SpecItems. Moreover, the user can change SpecItems in the web browser. So in other words the database (service) shall allow to: - import new revisions of SpecItems from input files - search and view SpecItem data in web-browser - compare revisions of a SpecItem - edit specific SpecItem metadata in web-browser - export SpecItem data to output files - trigger the actions above by REST API.

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Project 4 - Planning Document Product Glossary

Term	Definition
SpecItem	Specification Item, shortly item.
Tag	A key-value pair assigned to an item. An item can have several tags.
Fingerprint	A unique combination of characters
ShortName	Unique id of an item.
LongName	Longer name as a description of an item.
Commit Info	Time when SpecItem was committed
UseInstead	References to other specitems in same document
TraceRefs	Uptrace to requirement. References to specitem in a different document.
Content	Detailed description of the item
Main view	Webview displaying items as a list.
History view	Webview displaying the different versions of one item.
Single item view	Webview displaying the whole content of one item.
Diff view	Webview exposing the difference between two versions of one item.
Race condition	Problem occuring when mutliple threads access shared resources simultaneously, leading to unexpected behaviour.
AUTOSAR	AUTomotive Open System ARchitecture, containing specification items.

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Project 4 - Planning Document

Mid-Project Release plan

Sprint	Theme	User Stories			Est. Size		Est. Burndown	Real Size	Real Burndown	Dev. Speed
0							98		92	_
1	Architecture Planning	5, 8, 10, 17				12		15		15
2	Environment Setup / Software Research	19, 23, 22, 11,				17		17		16
3	Database Setup / Backend Implementation	43, 24, 21, 23,	18, 20			18	51	24		20.5
4	Frontend Setup / Backend Refinement	25, 9, 15				5		6		15
5	Frontend-Backend Connection / Frontend Features	26, 13, 55, 61,				29	17	30		18
6	Frontend Layout Features / Items Version History Setup	69, 44, 64, 67,	68			17	0	0	0	15
						00		00		
	Total					98		92		
# Sprints	6									
Due Date	11/30/2022									
Days Left	-62									
Dayo Lon	02		Burndo	own Ch	art					
			Barriac	, , , , , , , , , , , , , , , , , , ,						
					Real Bu	ırndown 📕	Est. Burndo	wn		
			100							
			100							
			75 —							
			50							
			25							
			0 —							
			U	1	2	3	4	5	6	

Project 4 - Planning Document Final Project Release plan

				Est.		Real	Dev.
Sprint	Theme	User Stories	Est. Size	Burndown	Real Size	Burndown	Speed
1	Architecture Planning	5, 8, 10, 17	12	240	15	190	15
	Environment Setup / Software	19, 23, 22, 11,					
2	Research	12, 14, 16	17	223	17	173	16
_	Database Setup / Backend	43, 24, 21, 23,					
3	Implementation	18, 20	18	205	24	149	20.5
4	Frontend Setup / Backend	00 40 05 0 45	_	200	0	140	4.5
4	Refinement	26, 13, 25, 9, 15	5	200	6	143	15
	Frontend-Backend Connection /	26, 51, 13, 55, 61, 25, 9, 45, 52,					
5	Frontend Features	46, 29, 15	29	171	30	113	18
J	Frontend Layout Features /	40, 20, 10	20	17.1	- 00	110	10
6	Items Version History Setup	69, 44, 64, 67, 68	17	154	11	102	20.5
	Items Version History viewable	87, 67, 80, 88,					
7	for user / Metadata to backend	70, 86, 79	22	132	23	79	17
		94, 96, 95, 92,					
	Diff-view for item comparision,	93, 108, 42, 107,					
8	Adjustments on the Tag field	109	20	112	23	56	23
		108, 98, 114, 97,					
		124, 115, 118,					
9	Frontend Finalisation	108,	18	94	16	40	19.5
	Planning and implementation of	133, 147, 132,					
11	Multi-Sesstion support	130, 131, 129	19	75	13	27	14.5
		147, 132, 130,	10	70	10		11.0
12	Implementation of Multi-Session	131, 144, 141,	23	52	27	0	20
12	support Final Adjustments and	116 116	23	52	21	U	20
13	Multisession-Finalization	144, 165, 159, 130	16	36		0	13.5
14	Release Review and Check-ups	T.B.D.	18	18		0	0
15	Final Presentation	T.B.D.	18	0		0	0
10	I mai i lesemation	1.0.0.	10	0		U	U
	Total		158		165		
			100		100		
# Sprints	14						
Due Date	02/08/2023						
Days Left	8						
2 4,0 2510	, and the second						

Project 4 - Planning Document Definition of Done

е	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Feature has been fully implemented	Features have been merged into the main-branch	Agreed on core functionality is provided
	No known errors	All tests are passing	At least 90% Code coverage in tests
	All acceptance criteria were met	Documentation updated	Bill of materials completed
	Test passes	Sprint backlog is empty	Documentation completed
	Peer code review passed	Bill of materials updated	
		ER-Diagramm updated	

Project 4 - Planning Document Documentation

Туре	Link / reference
User Documentation	<u>User Documentation · amosproj/amos2022ws04-specitem-database Wiki · GitHub</u>
Design Documentation	Design documentation · amosproj/amos2022ws04-specitem-database Wiki · GitHub
Build Documentation	Building the application · amosproj/amos2022ws04-specitem-database Wiki · GitHub

Project 4 - Planning Document

Bill of Materials

Context	Name	Version	License	Comment
1 org.springframework.boot	Spring Boot	2.7.5	Apache-2.0	
2 org.springframework.spring-web	Spring Boot Web			
3 org.springframework.data.spring-data-jpa	Spring Data JPA			
4 org.postgresql.postgresql	PostgreSQL Driver			
5 org.webjars.npm.react	React js	18.2.0	MIT	
6	Java	11	Oracle No-Fee Terms and Conditions License	
7	Apache Maven	3.8.6	Apache-2.0	
8 org.postgresql.postgresql	PostgreSQL	15	PostgreSQL License	
9 org.junit.jupiter	Junit	5.9.1	Eclipse Public License v2.0	
10 org.projectlombok	Lombok	1.18.24	MIT	
11 com.h2database	H2 Database Engine	2.1.214	EPL 1.0, MPL 2.0	
12 io.github.java-diff-utils	Diff Utils	4.1	2 Apache-2.0	
13 com.google.code.gson	Gson	2.8.9	Apache-2.0	

Project 4 - Planning Document Planning Poker

	3 First Name	Value			
Kotsev	Georgi	0			
Nguyen	Kevin Ky Anh	0	0.00	OK	
Vu	Duc Thai	0	0.00		
Niezgódka	Dawid	0			
Wittig	Tobias	0	0	No size	
Eren	Kubilay	0	1	Trivial size	
Rosenberger	Julian		2	Small size	
Malliaros	Nikolaos		3	Medium size	
Fischer	Leonard		5	Large size	
			8	Very large size	
			13	Too large (size)	
					Be happy!
					Almost ready