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.

Project 4 - Planning Document Product Glossary

Term	Definition	
<b>Term</b> Specitem	Specification Item	
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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	86	15	77	15
2	Environment Setup / Software Research	19, 23, 22, 11, 12				17	69	17	60	16
3	Database Setup / Backend Implementation	43, 24, 21, 23, 18	, 20			18	51	24	36	20.5
4	Frontend Setup / Backend Refinement	25, 9, 15				5	46	6	30	15
5	Frontend-Backend Connection / Frontend Features	26, 13, 55, 61, 25				29	17	30	0	18
6	Frontend Layout Features / Items Version History Setup	69, 44, 64, 67, 68				17	0	0	0	15
	Total					98		92		
	•									
# Sprints	6									
Due Date Days Left	11/30/2022 -41									_
Days Leit	-41		Rurndo	wn Cha	rt					
			Durnac	WII CIIa	1 (					
					Real Burn	down	Est. Burndo	wn		
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			100							
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			50 —							
			25 ——							
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Project 4 - Planning Document Final Project Release plan

Architecture Planning					Est.		Real	Dev.
Environment Setup / Software Research 19, 23, 22, 11, 12, 14, 16 17 219 17 117 16 Database Setup / Backend 43, 24, 21, 23, Implementation 18, 20 18 201 24 93 20.5 Frontend Setup / Backend 26, 13, 25, 9, 15 5 196 6 87 15 26, 51, 13, 55, 5 Frontend-Backend Connection / 61, 25, 9, 45, 52, 7 Frontend Layout Features / 61, 25, 9, 45, 52, 46, 29, 15 29 167 30 57 18 16 16 16 16 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	Sprint	Theme	User Stories	Est. Size	Burndown	Real Size	Burndown	Speed
Research   12, 14, 16   17   219   17   117   16	1		5, 8, 10, 17	12	236	15	134	15
Database Setup / Backend   43, 24, 21, 23,   18   201   24   93   20.5		•						
Implementation	2	1 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		17	219	17	117	16
Frontend Setup / Backend Refinement   26, 13, 25, 9, 15   5   196   6   87   15								
# Refinement	3	•	18, 20	18	201	24	93	20.5
Frontend-Backend Connection / 61, 25, 9, 45, 52, 46, 29, 15 29 167 30 57 18 Frontend Layout Features / Items Version History Setup 69, 44, 64, 67, 68 17 150 11 46 20.5 Items Version History viewable 87, 67, 80, 88, 70 86, 79 22 128 23 23  Diff-view for item comparision, 93, 108, 42, 107, 109 20 108 23 0  Frontend Finalisation 108, 81, 114, 97, 124, 115, 118, 108, 18 90 0  Planning and implementation of Multi-Sesstion support T.B.D. 18 72 0  Items Version History Viewable 87, 67, 80, 88, 70, 86, 79 22 128 23 23 23 23 23 23 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	4		00 40 05 0 45	_	400	0	0.7	4.5
Frontend-Backend Connection / 61, 25, 9, 45, 52, 46, 29, 15 29 167 30 57 18 Frontend Features / 46, 29, 15 29 167 30 57 18 Frontend Layout Features / 18 150 11 46 20.5 Items Version History Setup 69, 44, 64, 67, 68 17 150 11 46 20.5 Items Version History viewable for user / Metadata to backend 70, 86, 79 22 128 23 23  Diff-view for item comparision, 93, 108, 42, 107, 109 20 108 23 0  Frontend Finalisation 108, 98, 114, 97, 124, 115, 118, 108, 18 90 0  Planning and implementation of Multi-Sesstion support T.B.D. 18 72 0  Final Adjustments and Finalizing Multi-Session support T.B.D. 18 54 0  Refactorings T.B.D. 18 36 0  Release Review and Check-ups T.B.D. 18 18 18 0  Total 158 149  # Sprints 14  Due Date 02/08/2023	4	Retinement		5	196	б	87	15
Frontend Features   46, 29, 15   29   167   30   57   18		Frontand Backand Connection /						
Frontend Layout Features / Items Version History Setup   69, 44, 64, 67, 68   17   150   11   46   20.5	5			29	167	30	57	18
6   Items Version History Setup   69, 44, 64, 67, 68   17   150   11   46   20.5     Items Version History viewable   87, 67, 80, 88, 70   86, 79   22   128   23   23     Total   Items Version History viewable   87, 67, 80, 88, 70   86, 79   22   128   23   23     Total   Items Version History viewable   87, 67, 80, 88, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 70   87, 80, 80, 70   87, 80, 80, 80, 70   87, 80, 80, 7			40, 20, 10	20	107	- 00	01	10
Items Version History viewable   87, 67, 80, 88,   70, 86, 79   22   128   23   23   23   24   25   25   25   25   25   25   25	6		69, 44, 64, 67, 68	17	150	11	46	20.5
Diff-view for item comparision, Adjustments on the Tag field   94, 96, 95, 92, 93, 108, 42, 107, 109   20   108   23   0   108, 98, 114, 97, 124, 115, 118, 108,   18   90   0   0   108, 98, 114, 115, 118, 108,   18   90   0   0   0   0   0   0   0   0	_							
Diff-view for item comparision, Adjustments on the Tag field   109   20   108   23   0	7	for user / Metadata to backend	70, 86, 79	22	128	23	23	
8 Adjustments on the Tag field 109 20 108 23 0  108, 98, 114, 97, 124, 115, 118, 18 90 0  Planning and implementation of Multi-Sesstion support T.B.D. 18 72 0  11 Finalizing Multi-Session support T.B.D. 18 54 0  Final Adjustments and Refactorings T.B.D. 18 36 0  13 Release Review and Check-ups T.B.D. 18 18 18 0  14 Final Presentation T.B.D. 18 0  Total 158 149  # Sprints 14  Due Date 02/08/2023			94, 96, 95, 92,					
108, 98, 114, 97, 124, 115, 118, 108, 18 90 0 0								
124, 115, 118,   18   90   0   0	8	Adjustments on the Tag field		20	108	23	0	
9       Frontend Finalisation       108,       18       90       0         Planning and implementation of Multi-Session support       T.B.D.       18       72       0         11       Finalizing Multi-Session support       T.B.D.       18       54       0         Final Adjustments and Refactorings       T.B.D.       18       36       0         13       Release Review and Check-ups       T.B.D.       18       18       0         14       Final Presentation       T.B.D.       18       0       0         Total       158       149         # Sprints       14         Due Date       02/08/2023       02/08/2023       0       0								
Planning and implementation of   T.B.D.   18   72   0	0	Frantand Finalization		40	00			
10       Multi-Sesstion support       T.B.D.       18       72       0         11       Finalizing Multi-Session support       T.B.D.       18       54       0         Final Adjustments and Refactorings       T.B.D.       18       36       0         13       Release Review and Check-ups       T.B.D.       18       18       0         14       Final Presentation       T.B.D.       18       0       0         Total       158       149         # Sprints       14       14       14         Due Date       02/08/2023       02/08/2023       0	9		100,	10	90		U	
11       Finalizing Multi-Session support       T.B.D.       18       54       0         Final Adjustments and Refactorings       T.B.D.       18       36       0         13       Release Review and Check-ups       T.B.D.       18       18       0         14       Final Presentation       T.B.D.       18       0       0         Total       158       149         Due Date       02/08/2023       02/08/2023       02/08/2023	10		TRD	18	72		0	
Final Adjustments and   Refactorings   T.B.D.   18   36   0   0   13   Release Review and Check-ups   T.B.D.   18   18   0   0   14   Final Presentation   T.B.D.   18   0   0   0   0							-	
12       Refactorings       T.B.D.       18       36       0         13       Release Review and Check-ups       T.B.D.       18       18       0         14       Final Presentation       T.B.D.       18       0       0         Total       158       149         # Sprints       14         Due Date       02/08/2023       02/08/2023			1.0.0.	10	04			
13       Release Review and Check-ups       T.B.D.       18       18       0         14       Final Presentation       T.B.D.       18       0       0         Total       158       149         # Sprints       14         Due Date       02/08/2023       02/08/2023	12		T.B.D.	18	36		0	
14       Final Presentation       T.B.D.       18       0       0         Total       158       149         # Sprints       14         Due Date       02/08/2023       02/08/2023	13				18			
# Sprints 14 Due Date 02/08/2023	14	·	T.B.D.	18	0		0	
# Sprints 14 Due Date 02/08/2023								
Due Date 02/08/2023		Total		158		149		
Due Date 02/08/2023								
	# Sprints	14						
Days Left 29	Due Date	02/08/2023						
	Days Left	29						

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

Type	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	3	Java	11	Oracle No-Fee Terms and Conditions License	
7	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	4.12	Apache-2.0	

Project 4 - Planning Document Planning Poker

Last Name	First Name	Value			
Kotsev	Georgi	2			
Nguyen	Kevin Ky Anh	2	1.67	NOK	
Vu	Duc Thai	1	1107	11011	
Niezgódka	Dawid	2			
Wittig	Tobias	1	0	No size	
Eren	Kubilay	2	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)	