Project Name	Explainable Similarity Detector
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2021ws06-exp-similarity-detector
GitHub kanban board (project)	https://github.com/amosproj/amos2021ws06-exp-similarity-detector/projects/1
Team T-shirt (white)	...
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/OLYtK-gJU9h
Additional materials	...
Zoom-Link:	https://fau.zoom.us/j/65358072167?pwd=UFd4MFBHaU5iT3AwdVlMdnVxbXZwUT09

Last Name	First Name	GitHub User Name	Email Address	Roles (preliminary)
	Max	hemnemne		Backend
	Tim	t99-i		Frontend + PO
	Ronny	georgir20		Frontend
	René	Re-Krass		Backend
	Claudia	TuCl		Backend
	Hannes	h4nn3s94		Frontend
	Jasper	jasperjulius		Backend
	Simon	B4rtware		Backend

Goals	Das Ziel ist die Sicherstellung einer effektiven, verlässlichen aber auch gleichzeitig flexiblen Teamkommunikation.
	Jeden im Projekt involviert halten, indem man sich für die aktuellen Aufgaben/Probleme der anderen interessiert.
Meeting norms	Wir treffen uns alle jeden Donnerstag spätestens um 12:35 Uhr.
	Optionales 30-minütiges wöchentliches Meeting kann nach individueller Vereinbarung dazukommen.
	Mehr als 10 Minuten Verspätung müssen kommuniziert werden.
Working norms	Jeder zeigt gegenseitigen Respekt und übernimmt volle Verantwortung für ihre/seine Aufgabenbereiche.
	Features im Team besprechen, Umsetzung in den Kompetenzbereichen / Unterteams.
	Es ist ok manchmal seine eigenene Kompetenzen zu überschätzen und sich rechtzeitg Hilfe zu suchen.
	Bei einer Diskussion von mehr als (ungefähr) 15 Minuten, dann wird abgestimmt. Tie Breaker ist der PO.
Coordination norms	Product Owner sollte Telegram moderieren.
	Meeting Moderation nach Scrum Norm. Darauf achtet der Scrum Master.
	Alternative Modelle werden akzeptiert, solange sie nicht Scrum wiedersprechen.
Communication norms	Für die externe Kommunikation sollte Telegram genutzt werden
	Zoom für weekly calls: (https://tu-berlin.zoom.us/j/68376196208?pwd=b0N6NUFXcnFxQXhaSVB6TXFwM25aQT09)
Consideration norms	Jeder darf einmal ohne besonderen Grund, aber mit vorheriger Ansage, fehlen.
Cont. improvement norms	Wichtige Entscheidungen werden im Meeting Protokoll vom PO abgelegt.
	Jeder darf und soll ehrliches Feedback äußern.
Rewards	Gemeinsames Bier bei Projektabschluss.
	Wir wissen uns gegenseitig für unsere Arbeit wertzuschätzen.
Sanctions	2 Euro Spende an Wohltätige Organisation, wenn man etwas "verhauen" hat.
	Wahlweise Bierspende ans Team.
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#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Release Manager	Scrum Master
1	2021-10-21		Yes	Tim	Everyone else	N/A	Coach
2	2021-10-28		Yes	Tim	Everyone else	Claudia	Coach
3	2021-11-04		Yes	Tim	Everyone else	Max	Coach
4	2021-11-11		Yes	Tim	Everyone else	Jasper	Coach
5	2021-11-18		Yes	Tim	Everyone else	Tim	Coach
6	2021-11-25		Yes	Tim	Everyone else	Simon	Coach
7	2021-12-02	Mid-project relea	Yes	Tim	Everyone else	Hannes	Coach
8	2021-12-09			Tim	Everyone else	René	Coach
9	2021-12-16			Tim	Everyone else	Ronny	Coach
10	2022-01-13		Yes	Tim	Everyone else	Claudia	Coach
11	2022-01-20			Jasper	Everyone else	Max	Coach
12	2022-01-27			Tim	Everyone else	Jasper	Coach
13	2022-02-03		Yes	Max	Everyone else	Tim	Coach
14	2022-02-10	Demo day / final release		Tim	Everyone else	Simon	Coach
15	2022-02-17	Project retrospective due		Tim	Everyone else	Hannes	Coach

Product Vision	Project Mission
The Explainable Similarity Detector should give all developers who work with electronic components a noticeable offer simplification in everyday work. Through the use of machine learning and an easily understandable surface, the time-consuming search for suitable components should be faster, more convenient and clearer.	The mission of this project is to utilize the machine learning algorithm given by Siemens for the find functionally similar electronic components. This is supposed to be given on the basis of one or more Components are done with the help of filters.
The reason of existence of the envisioned product (beyond this project).	The mission of this particular project (in the context of the product vision).

Term	Definition
user	a developer who works with electronic components
(electronic) components	semiconductors, LEDs, etc.
Industry-Partner-User	Users on the part of the industrial partner who will use the software product
Industry-Partner-Software-Developer	Software developers on the part of the industrial partner who will work on the software product
Scheduled-for-Split	It is likely that this feature will have to be broken down into subtasks
SFS	Shorthand for Scheduled-for-Split
Dummy	A function that has not yet been fully implemented, but is used to test basic functionalities
Project-Developer	Project side software developer

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
1-4	**Organisation, clearing questions with the Industry-Partner and familiarize with the material**				/		/	
		Allocation of roles, laying the foundations, setting up software and holding first industrial partner meetings (mainly non-code)						
				/		/		
5	**Groundwork**				**11**		**8**	
		Create first Domain Model to work with (Frontend), testing requests and understanding/working with the ML-Code, data etc.						
			Create first Domain Model with most important entities in mendix	**3**		**3**		
			Get-Request (azure-Model) (Dummy)	**8**		**5**		
6	**Dummy-Prototype (Part 1)**				**19**			
		Deliver first prototype to test basic interaction between frontend and backend and lay the foundation for the Basic-Protoype						
			create JSON-Format	**3**		**TBD**		
			Request function for data(Dummy)	**5**		**TBD**		
			Function for adding component(capacitor)(Dummy)	**3**		**TBD**		
			Create database-scheme(SQL)	**3**		**TBD**		
			Backend-API connection with the database (Dummy)	**5**		**TBD**		

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
7	**Dummy-Prototype (Part 2)**				**8**			
		Finish all Dummy function and testing basic interaction for implementation of real functions						
			User feedback function for openAPI	**3**		**TBD**		
			Backend-API (Dummy)	**5**		**TBD**		
			Function for adding component(resistor)(Dummy)	**TBD**		**TBD**		
			Host-Open-API-Specification (Swagger)	**TBD**		**TBD**		
8	**Basic-Version (Part 1)**				**TBD**		**TBD**	
		Deliver a prototype that can already receive and process input						
			Implementation of the endpoints	**TBD**		**TBD**		
			Machine-Learning model connection	**TBD**		**TBD**		
9	**Basic-Version (Part 2)**				**TBD**		**TBD**	
		Deliver a prototype that implements required functionality						
			Filter results	**TBD**		**TBD**		
			Feedback-Function	**TBD**		**TBD**		
10	**Advanced-Version (Part 1)**				**TBD**		**TBD**	
		deliver a prototype which already contains advanced(non-basic) functionalities						
			Tab system	**TBD**		**TBD**		
			Show data sheet	**TBD**		**TBD**		
			Refresh-Switch	**TBD**		**TBD**		
11	**Advanced-Version (Part 2)**				**TBD**		**TBD**	
		deliver a prototype which already contains advanced(non-basic) functionalities						
			Filter based search	**TBD**		**TBD**		
			Allocation of results in classes	**TBD**		**TBD**		
12	**Advanced-Version (Part 3)**				**TBD**		**TBD**	
		deliver a prototype which already contains advanced(non-basic) functionalities						
			price and property comparison of similar components	**TBD**		**TBD**		
13	**TBD**							

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
		TBD						

Last Name	First Name	Value					
	Max			#DIV/0!	#DIV/0!		
	Tim						
	Ronny						
	René						
	Claudia			0	No size		
	Hannes			1	Trivial size		
	Jasper			2	Small size		
	Simon			3	Medium size		
				5	Large size		
				8	Very large size		
				13	Too large (size)		

Sprint	Status	Source	Impediment	Resolution
1	Resolved	Industry partner	Fehlende Informationen zu Spezifikation und Technik	Warten auf User-Journey-Meeting
1	Resolved	Industry partner	Nicht die versprochenen Unterlagen geschickt	Unterlagen bekommen.
1	Resolved	Industry partner	User-Journey Meeting erst in zwei Wochen angesetzt.	Später Termin ist in Ordnung.
5	In-work	Siemens	Frage bezügliche des Patents/Copyrights	
5	In-work	SD	Azure-Experte hat erst "irgendwann" Zeit (sehr spät)	Termin steht für den 30.11
5	Created	Prof. Riehle	Privates Git-Repository vs. Benotung	
5	Created	Siemens	Copyright Frage bezgl. des Mendix-Templates	
5	Created	Siemens	ML-Modell läuft nicht entgegengesetzt der Ansage/Erwartung	
6	Created	Maria	Maria im Urlaub	
6	Created	Siemens	Ansprechpartner für ML-Modell nicht erreichbar. Aber nicht mehr angestellt bei Siemens	

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
1	- Code has been reviewed by developer	- no bugs that affect the functionality	- Basic functionality and front end is ready for use
2	- Code has been reviewed by the responsible developer Team (Frontend/Backend)	- small bugs are documented for rectification	- User documentation is ready **(subject to change)**(used and checked by AT LEAST 3 off-project persons (Industry-Partner-User))
3	- individual acceptance criteria are met	- The user documentation is updated according to the changes	- Developer documentation is ready **(subject to change)**(used and checked by AT LEAST 3 off-project persons (Industry-Partner-Software-Developer)
4		- The developer documentation is updated according to the changes	
5		- (Optimal): 80-90% of the assigned tasks were completed successfully	
6		- (Minimum): At least 50% of all assigned tasks have been completed (discussion in the meeting)	
			Appendix: Subject-to-change Expect further information from the industry partner, how many people are available for this

\	Context	Name	Version	License	Comment
1	Backend	Django	3.2.9	BSD License	
2	Backend	Markdown	3.3.4	BSD License	
3	Backend	Pillow	8.4.0	Historical Permission Notice and Disclaimer (HPND)	
4	Backend	Werkzeug	2.0.2	BSD License	
5	Backend	absl-py	0.15.0	Apache Software License	
6	Backend	asgiref	3.4.1	BSD License	
7	Backend	click	8.0.3	BSD License	
8	Backend	colorama	0.4.4	BSD License	
9	Backend	cycler	0.11.0	BSD License	
10	Backend	dataclasses	0.8	Apache Software License	
11	Backend	djangorestframework	3.12.4	BSD License	
12	Backend	gensim	4.1.2	LGPL-2.1-only	
13	Backend	grpcio	1.41.1	Apache Software License	
14	Backend	importlib-metadata	4.8.1	Apache Software License	
15	Backend	joblib	1.1.0	BSD License	
16	Backend	kiwisolver	1.3.1	BSD License	
17	Backend	matplotlib	3.3.4	Python Software Foundation License	
18	Backend	mlxtend	0.19.0	BSD License	
19	Backend	nltk	3.6.5	Apache Software License	
20	Backend	numpy	1.19.0	BSD	
21	Backend	pandas	0.25.3	BSD	
22	Backend	protobuf	3.19.1	3-Clause BSD License	
23	Backend	pyarrow	6.0.0	Apache Software License	
24	Backend	pyparsing	3.0.4	MIT License	
25	Backend	python-dateutil	2.8.2	Apache Software License; BSD License	
26	Backend	pytz	2021.3	MIT License	
27	Backend	regex	2021.11.2	Apache Software License	
28	Backend	sacremoses	0.0.46	MIT License	
29	Backend	scikit-learn	0.24.2	new BSD	
30	Backend	scipy	1.5.4	BSD License	
31	Backend	six	1.16.0	MIT License	
32	Backend	scikit-learn	1.0.1	OSI Approved (new BSD)	Requires: Python >=3.7; sklearn ist sehr alt und besitzt keine Lizenz. Um aber scikit-learn verwenden zu können, wird mindestens die Python version 3.7 benötigt.
33	Backend	sklearn	0.0	UNKNOWN	
34	Backend	smart-open	5.2.1	MIT License	
35	Backend	sqlparse	0.4.2	BSD License	
36	Backend	stop-words	2018.7.23	BSD License	
37	Backend	tensorboard	2.0.0	Apache Software License	
38	Backend	threadpoolctl	3.0.0	BSD License	
39	Backend	torch	1.10.0	BSD License	
40	Backend	tqdm	4.62.3	MIT License; Mozilla Public License 2.0 (MPL 2.0)	
41	Backend	typing-extensions	3.10.0.2	Python Software Foundation License	

\	Context	Name	Version	License	Comment
42	Backend	zipp	3.6.0	MIT License	
43	Frontend	Mendix	9.6.1	Free License	

Type	Link / reference
User Documentation	**Not yet possible**
Build Documentation (Frontend)	**https://github.com/Re-Krass/amos2021ws06-exp-similarity-detector/blob/main/Documentation/build/frontend/docker/README.md**
Build Documentation (Backend)	**https://github.com/Re-Krass/amos2021ws06-exp-similarity-detector/blob/main/Documentation/build/backend/azure/README.md**
Software-Architecture	**https://github.com/Re-Krass/amos2021ws06-exp-similarity-detector/blob/main/Deliverables/2021-11-30_sprint-06-software-architecture.pdf**