Project Name	Digital Identity
Online team meeting (Wed 12.30)	https://fau.zoom.us/j/66411020765
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos2022ss04-digital-identity
GitHub scrum board (project)	https://github.com/amosproj/amos2022ss04-digital-identity/projects
Team T-shirt (white)	https://www.shirtinator.de/loadBasket/FvFqNNwXWHo (shirtinator T-Shirt, because there is no standard T-Shirt in white)
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/R7YvCl0mbCV
Additional materials	

Last Name	First Name	GitHub User Name	Email Address
Kiesel	Jannik	jackDS008	jannik.kiesel@fau.de
Krause	Annika	annikakrause	annika.krause@fau.de
Bräutigam	Valentin	valentinBraeutigam	valentin.braeutigam@fau.de
Hoock	Tamara	TamaraHoock	tamara.hoock@fau.de
Veit	Moritz	veitmo	moritz.veit@fau.de
Vogelbacher	Jean-Frédéric	Jean28518	jean-frederic.vog.vogelbacher@fau.de
Bakas	Athanassios Karol	idontker	karol.bakas@fau.de
Pegouen	Steve Richard	steve-237	steve.pegouen@fau.de
Hussien	Hend	hendhussienfau	hend.abdo.hussien@fau.de

Goals	• Create successful demo on demo day • Meet product expectations of industry partner adorsys • Meet defined requirements • Build trust and rely on your teammates • Meet each other with mutual respect and acknowledge the individual skills • Have efficient and agile working environment
Meeting norms	• Mandatory weekly team meetings (sprints): Wednesday 12:30 PM – 2:00 PM • Come prepared to each sprint • Come to each meeting on time • Present assigned issue (github project) • Follow the agenda of the sprint and stick to the allocated timeframe • Define purpose of next meeting at the end of a sprint • Fill out hapiness index after each sprint meeting • Meeting protocoller has to summarize important information the meeting in the document "meetings" in teams
Working norms	• Working on github project with clearly assigned tasks and tags • Each issue (github project) includes min. 1 assignee, sprint tag and estimation tag • Issues should only be moved to the Sprint Backlog during the weekly team meetings at sprint planning • Issues should only be moved to the Feature Archive during weekly team meetings at sprint release • Support each other when needed • Issues are not assigned but individual team members are motivated to take on tasks independently
Coordination norms	• PO & SM is responsible for leading Team Meetings and keeping meetings on track • Release Manager is responsible for weekly sprint releases and to keep "read me" updated • Assignments/issues are allocated together in sprint meetings • Overview of roles is defined in the Role Assignments tab
Communication norms	• Frequent and topic related communication in Teams by using the appropriate channels • spontaneous and quick updates via Signal AMOS - DIdentity internal group • Avoid sharing imporant information via a voice message • Ensure open and direct communication, where every team member can express and discuss ideas, concerns, questions • Criticize each other constructively and directly • Check Teams once a day and respond to requests/messages • Check E-mail at least once a day and respond to requests/messages • "Reply to all" in mail conversations • All messaging is public • When sending Mails, use an "[AMOS]" in the beginning of the subject and use project e-mail • Time of team communication 8 am - 8 pm

Consideration norms	• Every opinion is considered • Agreement is achieved by discussing topics in the weekly sprint meetings (based on 2/3 majority in the worst) • Use "Planning Poker" to discuss estimations, if disagreement conduct a discussion and revote
Cont. improvement norms	• Present tasks and progress in weekly meeting • Instant evaluation and feedback
Rewards	• Celebratory moving of issues into “Feature Archive”-Bucket on github project • Everybody else cheering • Celebrate turn-in of homework with a Beer in a "Biergarten" or club
Sanctions	• Violating norms • Failing to meet obligations • Being late (Postponing possible one day earlier) in case of technical problem or other proper reasons can be tolerated • Sanctioned person has to do push-ups or give around of drinks/food AND has to put extra effort in work to make up for the lost time

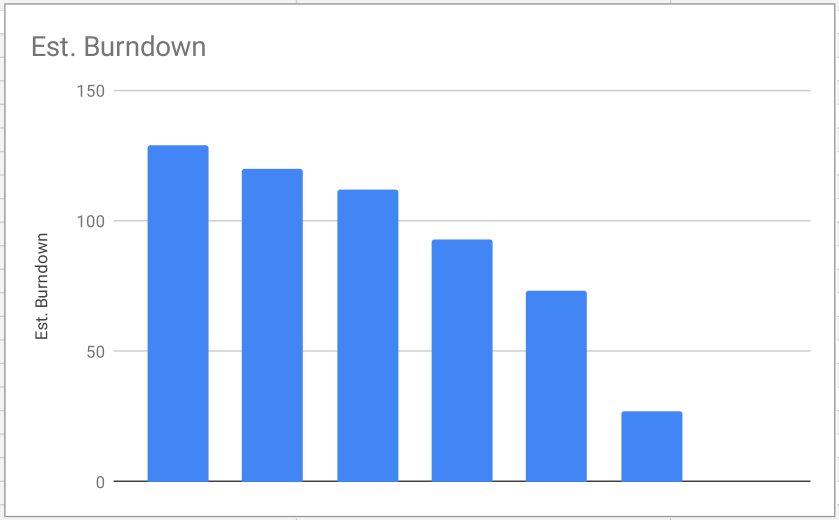
#	Meeting Day	Uni	Comment	Product Owner	Software Developer	Release Manager	Scrum Master	Protocollist
1	2022-04-27			Tamara Hoock, Moritz Veit	Everyone else	N/A	Hend Hussien	Tamara Hoock
2	2022-05-04			Tamara Hoock, Moritz Veit	Everyone else	Jean-Frederic Vogelbacher	Hend Hussien	Moritz Veit
3	2022-05-11	Yes		Tamara Hoock, Moritz Veit	Everyone else	Jean-Frederic Vogelbacher	Hend Hussien	Athanassios Karol Bakas
4	2022-05-18			Tamara Hoock, Moritz Veit	Everyone else	Valentin Bräutigam	Hend Hussien	Annika Krause
5	2022-05-25	Yes		Tamara Hoock, Moritz Veit	Everyone else	Athanassios Karol Bakas	Hend Hussien	Steve Richard Pegouen
6	2022-06-01			Tamara Hoock, Moritz Veit	Everyone else	Annika Krause	Hend Hussien	Valentin Bräutigam
7	2022-06-08	Yes	Mid-term due	Tamara Hoock, Moritz Veit	Everyone else	Jean-Frederic Vogelbacher	Hend Hussien	Hend Hussien
8	2022-06-15			Tamara Hoock, Moritz Veit	Everyone else	Steve Pegouen	Hend Hussien	Annika Krause
9	2022-06-22			Tamara Hoock, Moritz Veit	Everyone else	Athanassios Karol Bakas	Hend Hussien	Jannik Kiesel
10	2022-06-29	Yes		Tamara Hoock, Moritz Veit	Everyone else	Valentin Bräutigam	Hend Hussien	Steve Richard Pegouen
11	2022-07-06			Tamara Hoock, Moritz Veit	Everyone else	Jannik Kiesel	Hend Hussien	Valentin Bräutigam
12	2022-07-13			Tamara Hoock, Moritz Veit	Everyone else	Annika Krause	Hend Hussien	Jannik Kiesel
13	2022-07-20	Yes		Tamara Hoock, Moritz Veit	Everyone else	Steve Pegouen	Hend Hussien	Jannik Kiesel
14	2022-07-27		Demo day!	Tamara Hoock, Moritz Veit	Everyone else	Jean-Frederic Vogelbacher	Hend Hussien	-
15	2022-08-03		Retrospective	Tamara Hoock, Moritz Veit	Everyone else	-	Hend Hussien	-

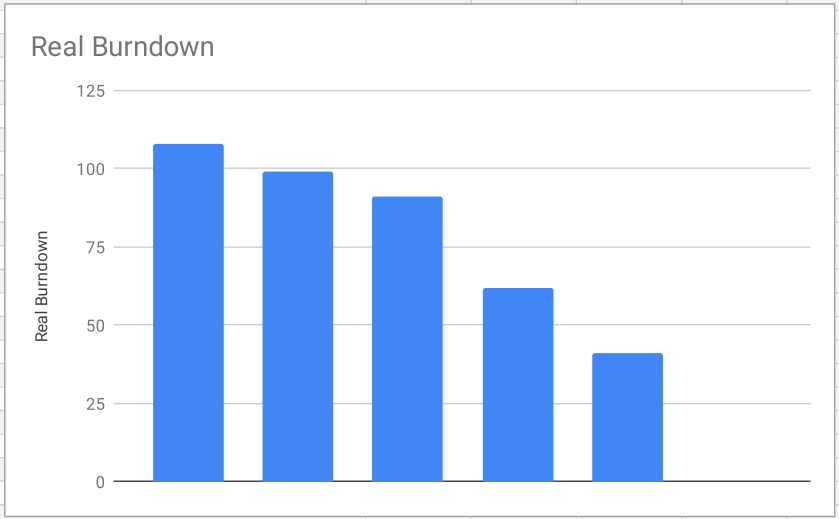
Term	Definition
basic personal data	the basic personal data is the collection of data that has to be filled out at the "Create new DI" registration process (e.g. name, surname, email)
personal data	the data of every DI that is stored in the database
digital identity (DI)	a unique object that is clearly linked to one living person. It comprises the personal information stored about that person. (technical term in lissi: connection)
connection	synonym to digital identity
HR employee	person working in the HR department who is responsible for the creation and administration of digital identities at Adorsys.
schema	(= schema in lissi)
credential definition	(= credential definition in lissi)
credential	a credential definition that got assigned to a DI
credential proof	(= credential proof in lissi). A credential proof is created via a proof request and clearly targets one specific connection.
proof template	a template which can be used to create a proof and which is linked to a credential definition

Product Vision	Project Mission
In numerous situations, such as contracting, travel, Internet, purchasing processes access or access control, people need to uniquely identify and authenticate themselves. A variety of carriers and processes are required for identification and authentication in different areas of life and business: IDs, cards, documents, passwords, electronic data, or hybrids. To obtain a new document or access to a system, the same data of a person is needed over and over again, and must be captured and verified each time. First name, last name, date of birth, gender, profession, personal characteristics and more, depending on the area and application. A digital identity that is recorded, verified, securely stored, and managed in a trustworthy manner solves this problem and creates security and efficiency. Every individual and every institution can use their own digital identity to uniquely identify and authenticate themselves and also digitally sign documents in a legally valid manner.	Adorsys wants to implement Digital identities for all employees, guests and partners working for the company, to digitalize and simplify the identification and authentication process at adorsys. Starting with the creating digital identities for all stakeholders that are stored in the lissi app, defining authentication schemas and allowing access to its workers are the key goals for this project. In the future, adorsys envisions unlimited possibilities of using the digital identities for example as doorkeys and is keen to build up this network of partners within the lissi network.

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
1	**Project Start**	**Teambuilding, project organisation**			**9**		**9**	
			#1 Create Logo	5		5		
			#2 Create T-Shirt	2		2		
			#3 Team Contract	2		2		
2	**Project Set-up**	**Understand project scope and expectation from industry partner & research on tools for project set-up**			**8**		**8**	
			#21 Project Technical Set-up	8		8		
3	**Process Architecture & Set-up Backend and Frontend**	**Defining Process Overview & Initialize Frontend and backend development**			**19**		**29**	
			#7 Enter Personal information	8		13		
			#5 User Login	8		13		
			#24 Create an open API	3		3		
4	**Research on core functionalities & connection to lissi**	**Prioritize on high-risk core functionalities & lissi API**			**20**		**21**	
			#33 Testing Frontend	5		5		
			#10 Frontend: Overview of digital identities	3		3		
			#29 Connection frontend-backend: store personal data in data base	2		3		
			#39 Research: Ensure secure access to backend	5		5		
			#28 Lissi: Research on how it works, API	3		3		
			#31 Frontend: Create Dashboard	2		2		
5	**Implementation of core functionalities & connection to lissi**	**Deliver core-functionalities & lissi connection**			**46**		**41**	
			#9 Backend: send e-mail	8		5		
			#47 Backend: QR code generation	3				
			#26 Backend: editing personal information. Update of database	2		2		
			#68 Navigation bar	3		3		
			#67 Login events: failed + success	3		3		
			#32 Backend connection: overview page of digital identities	5		5		
			#66 Frontend: edit personal information	5		5		
			#34 Testing Backend	3		3		
			#23 Software architecture	2		5		
			#50 Frontend: Page to create new schema	5		5		
			#56 Frontend-Backend connection: overview page of digital identities	3		3		
			#25 Send request to lissi backend and create digital identity	2				
			#49 Frontend: Adapt creation of new DI (Update)	2		2		
6	**Ability to create a digital identity and a schema via DIdentity**	**Connect previously built features to run succesful process of creation of digital identity and schema**			**27**		**22**	
			#47 Backend: QR code generation	3		2		
			#25 Send request to lissi backend and create digital identity	2		5		
			#48 Invitation of user to Digital Identity	2		2		
			#101 Handle failure of sending an email	2		2		
			#100 Frontend: error handling with error pages	3		3		
			#99 Backend: useful responses to frontend requests	3		3		
			# 51 backend: create new schema which is saved on lissi backend	2				
			#52 frontend: overview of schemas	5		5		
			#62 frontend-backend connection: create new schema	3				
			#54 backend: provide existing schemas to frontend	2				

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
				Est. Size	Est. Burndown	Real Size	Real Burndown	
					129		**108**	
1	**Project Set-up**	**Teambuilding, project organisation**		9	120	9	99	
2	**Project Set-up**	**Understand project scope and expectation from industry partner & research on tools for project set-**		8	112	8	91	
3	**Process Architecture & Set-up Backend and Frontend**	**Defining Process Overview & Initialize Frontend and backend development**		19	93	29	62	
4	**Research on core functionalities & connection to lissi**	**Prioritize on high-risk core functionalities & lissi API**		20	73	21	41	
5	**Implementation of core functionalities & connection to lissi**	**Deliver core-functionalities & lissi connection**		46	27	41	0	
6	**Ability to create a digital identity and a schema via DIdentity**	**Connect previously built features to run succesful process of creation of digital identity and schema**		**27**	0		0	
				129		**108**		

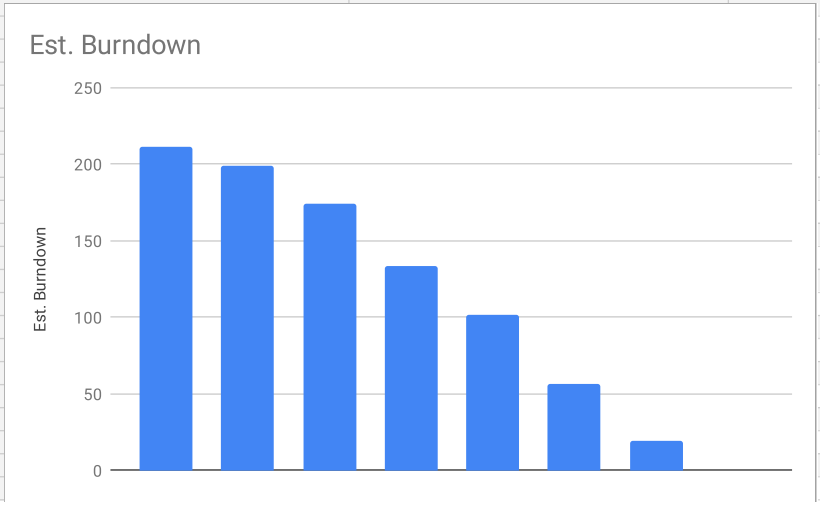


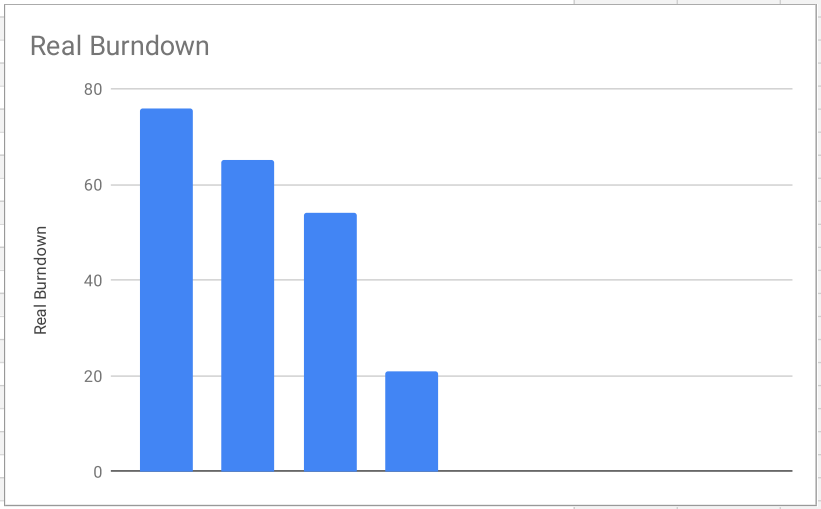


#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
7	**Technical refinements and prepare credentials**	**Tidy up, implement testing for all processes. Prepare to include credentials-process in DIdentity**			**12**		**11**	
			# 51 backend: create new schema which is saved on lissi backend	2		5		
			#62 frontend-backend connection: create new schema	3				
			#54 backend: provide existing schemas to frontend	2		3		
			#93 frontend refactoring					
			#110: store URL for DI in local database	2		1		
			#121 backend refactoring					
			#119: add tests for the backend					
			#128: create a secure initial password					
			#118: add tests for the frontend					
			#111: backend: create credential at Lissi API	3		2		
8	**Credentials I**	**Add processes for credentials in frontend and backend and connect to Lissi API**			**25**		**11**	
			#62: frontend-backend connection: create new schema	3				
			#130: change password	3		3		
			#118: add tests for the frontend					
			#128: create a secure initial password	5		2		
			#115: overview page over existing credential-definitions	3		3		
			#114: add DI to existing credential-defintion via popup window	5				
			#130: change password	3		3		
			#112: create new credential definition - page	3				
9	**Credentials II & Proofs**	**Add processes for proofs in frontend and backend and connect to Lissi API**			**40**		**33**	
			#129 Prefilled formular on initial password change	1		2		
			#37 Forgotten password	2		3		
			#165 Create DI: adjust: tickbox HR employee yes/no	1		2		
			#166 Delete DI on Adorsys Lissi Blockchain	3		8		
			#167 Create proof template	3		-		
			#168 Send proof request to DIs/connections	5		-		
			#169 Overview of proof templates	2		3		
			#114 Add DI to existing credential-defintion via pop-up window	5		-		
			#112 create new credential definition - page	3		-		
			#136 credential definition: detailed overview pop-up page	3		3		
			#144 backend: create proof at lissi API	2		1		
			#62 frontend-backend connection: create new schema	3		2		
			#36 authorization: unauthorized users cannot access frontend and send request to backend	3		-		
			#140 create mail account for testing and use it in DIdentity	1		1		
			#139: Docker: Host our service			8		
			#171 Overview of DI values for open credentials, open proofs, connection status	3		-		
10	**Proofs II, Edit and delete functionalities I**	**Build processes for editing DI-, schema-, credential-,proof-informtion and deletion**			**32**		**21**	
			#167 Create proof template	3		8		
			#168 Send proof request to DIs/connections	5		5		
			#114 Add DI to existing credential-defintion via pop-up window	5		-		
			#112 create new credential definition - page	3		3		
			#36 authorization: unauthorized users cannot access frontend and send request to backend	3		-		

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
			#171 Overview of DI values for open credentials, open proofs, connection status	3		-		
			#204: proof: filter to check attribute values	5		5		
			#211: Credentials: replace dummy data with real data	3		-		
			#195: log-out button	2		-		
11	**Helper/peripheral functionalities**	**make all processes on DIdentity platform work successfully and add missing connections**			**45**			
			#114 Add DI to existing credential-defintion via pop-up window	5				
			#36 authorization: unauthorized users cannot access frontend and send request to backend	3				
			#171 Overview of DI values for open credentials, open proofs, connection status	3				
			#211: Credentials: replace dummy data with real data	3				
			#112 create new credential definition - page	3				
			#44: styleguide applied to overviewpages	8				
			#238: detailed overview of one connection: show all proofs and credentials connected to the connection	5				
			#240 detailed overview of one proof	3				
			#173 Retrieve credential actions log data	3				
			#243 Automatically Issue credential with data provided by proof	8				
			#207: update edit button with icon	1				
12	**All processes, refactoring**	**Finalize implementation of processes, clean up code, start preparing demo day**			**38**			
			#238: detailed overview of one connection: show all proofs and credentials connected to the connection	5				
			#243 Automatically Issue credential with data provided by proof	8				
			#240 detailed overview of one proof	3				
			#256: settings icon links to change password website	1				
			#263 Create new-pages: according to Mockup	5				
			#264 Refactoring navigation bar according to Mock-up	3				
			#265 Create home page/landing page according mock-up	1				
			#266 change password/login/forgot password page according to Mockup	2				
			#267 pop-up windows according to Mockup	3				
			#257 Delete Image-Selection (and display of URL) from frontend (create pages and details pages)	1				
			#208: adjustable size of columns in DI	1				
			258: Display more precise error messages (e.g. when trying to log in with not existing mail adress)	2				
			#171 Overview of DI values for open credentials, open proofs, connection status	3				
13	**Refinement for Final Project Release & Demo Day preparation**	**Refactor, finalize deliverables, get everything in order and place**			**19**			
			discuss presentation and prepare demo					
			create demo day slide					
			create demo video					
			create public Zoom meeting for demo day and share link with teachers					
			finalize user, design, build/deploy documentation	5				
			clean up and finish final project release plan	5				
			@releaseManager: tag code with final-project release	1				
			technical refinements	8				
			Extensive feature testing	5				
			#create demo day slide					
14	**Report and Retroperspective**	**Create project summary, project retro document**						

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down
				Est. Size	Est. Burndown	Real Size	Real Burndown	
					211		**76**	
7	**Rechnical refinements and prepare credentials**	**Tidy up, implement testing for all processes. Prepare to include credentials-process in DIdentity**		12	199	11	65	
8	**Credentials**	**Add processes for credentials in frontend and backend and connect to Lissi API**		25	174	11	54	
9	**Proofs**	**Add processes for proofs in frontend and backend and connect to Lissi API**		40	134	33	21	
10	**Edit and delete functionalities**	**Build processes for editing DI-, schema-, credential-, proof-informtion and deletion**		32	102	21	0	
11	**Helper/peripheral functionalities**	**make all processes on DIdentity platform work successfully and add missing connections**		45	57		0	
12	**All processes, refactoring & Demo Day preparation**	**Finalize implementation of processes, clean up code, start preparing demo day**		38	19		0	
13	**Refinement for Final Project Release**	**Refactor, finalize deliverables, get everything in order and place**		19	0		0	
				211		**76**		





#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	code peer-reviewed (by at least one team member)	no severe bugs open	no severe bugs open: bugs-issues have been fixed and closed or are labeled with "wont-fix"
	acceptance criteria met	code is cleaned	user manual finished and available
	integrated into a clean build	demo is approved	developer documentation is finished and deliverable
	documentation updated	there is a tagged release candidate	code has been deployed via Docker to the server
	code is well-formatted (according to our norms) and structure		
	Code supports all functions/cases and all responses defined in the API		
	no severe bugs during main functionalities (program should not stop executing due to these bugs, e.g. runtime exception in Docker)		
	Bill of Materials updated if necessary		
	70% of the tests pass	80% of the tests pass	
	important functions shall be tested	(Starting with Sprint 9): code has been deployed via Docker to the server	
	--> if all DoDs are met, the feature qualifies to add to a release		

Type	Link / reference

\	Context	Name	Version	License	Comment
1	@angular/animations	@angular/animations	13.3.0	MIT	
2	@angular/cdk	@angular/cdk	13.3.7	MIT	
3	@angular/common	@angular/common	13.3.0	MIT	
4	@angular/compiler	@angular/compiler	13.3.0	MIT	
5	@angular/core	@angular/core	13.3.0	MIT	
6	@angular/forms	@angular/forms	13.3.0	MIT	
7	@angular/material	@angular/material	13.3.7	MIT	
8	@angular/platform-browser	@angular/platform-browser	13.3.0	MIT	
9	@angular/platform-browser-dynamic	@angular/platform-browser-dynamic	13.3.0	MIT	
10	@angular/router	@angular/router	13.3.0	MIT	
11	rxjs	rxjs	7.5.0	Apache 2.0	
12	tslib	tslib	2.3.0	0BSD	
13	zone.js	zone.js	0.11.4	MIT	
14	@angular-devkit/build-angular	@angular-devkit/build-angular	13.3.3	MIT	
15	@angular/cli	@angular/cli	13.3.3	MIT	
16	@angular/compiler-cli	@angular/compiler-cli	13.3.0	MIT	
17	@types/jasmine	@types/jasmine	3.10.0	MIT	
18	@types/node	@types/node	12.11.1	MIT	
19	jasmine-core	jasmine-core	4.0.0	MIT	
20	karma	karma	6.3.0	MIT	
21	karma-chrome-launcher	karma-chrome-launcher	3.1.0	MIT	
22	karma-coverage	karma-coverage	2.1.0	MIT	
23	karma-jasmine	karma-jasmine	4.0.0	MIT	
24	karma-jasmine-html-reporter	karma-jasmine-html-reporter	1.7.0	MIT	
25	typescript	typescript	4.6.2	Apache 2.0	
26	org.springframework.boot	org.springframework.boot	2.6.7	Apache 2.0	
27	For database	org.springframework.boot.jpa			
28	Database Connector	org.springframework.boot.mysql-connector			
29	Database mysql				
30	org.apache.maven	org.apache.maven	3.1.0	Apache 2.0	
31	maven	maven	3.8.4	Apache 2.0	
32	mysql	mysql	8.0.29	GNU	
33	mail relay for spring	spring-boot-starter-mail	2.7.0		
34	QR-Code generation	com.google.zxing.	3.3.0		
35	cypress	cypress	10.2.0	MIT	
36	karma-coverage-istanbul-reporter	karma-coverage-istanbul-reporter	3.0.3	MIT	
37	karma-firefox-launcher	karma-firefox-launcher	2.1.2	MIT	
38	karma-ie-launcher	karma-ie-launcher	1.0.0	MIT	
39	karma-spec-reporter	karma-spec-reporter	0.0.34	MIT	

40	ngx-mat-select-search	ngx-mat-select-search	4.2.0	MIT	
41	com.h2database	com.h2database		EPL 1.0	
42	org.passay	org.passay	1.3.1	Apache 2.0	
43	spring-boot-starter-test	spring-boot-starter-test		Apache 2.0	
44	spring-boot-starter-web	spring-boot-starter-web		Apache 2.0	

Last Name	First Name	Value					
Kiesel	**Jannik**			#DIV/0!	#DIV/0!		
Krause	**Annika**						
Bräutigam	**Valentin**						
Hoock	**Tamara**						
Veit	**Moritz**			0	No size		
Vogelbacher	**Jean-Frédéric**			1	Trivial size		
Bakas	**Athanassios Karol**			2	Small size		
Pegouen	**Steve Richard**			3	Medium size		
Hussien				5	Large size		
				8	Very large size		
				13	Too large (size)		
				c [ ]˜	I need coffee		