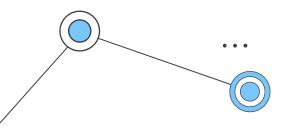




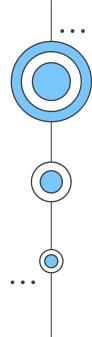
Unser Team

Teamleiter	Testmanager	Systemarchitekt	Entwickler	Dokumentation		
Florian Dörr	Thomas Ekhardt	Simon Luz	Robin Ernst	Tristan Kopp		
inf22192	inf22145	inf21063	inf22176	inf22062		
@lehre.dhbw-stuttgart.de						

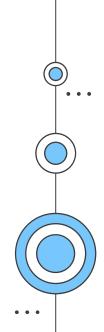


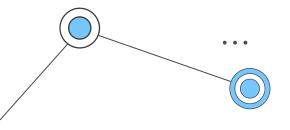
Gliederung

- 1. Übersicht
- 2. API Spezifikation
- 3. Architektur
- 4. Zeitplan
- 5. System Test Plan
- 6. System Test Report
- 7. Live Demo
- 8. Fazit

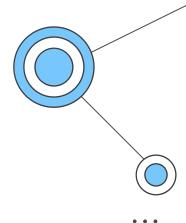


01 Übersicht



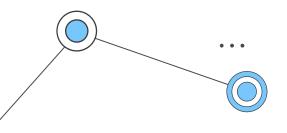


Übersicht

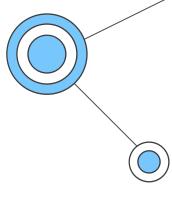


Allgemeine Anforderung

- Erstellung einer API
- Generierung eines Nameplates
 - Durch Referenz auf Produkt in einem AASX-Server
 - Durch eigene Daten



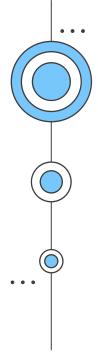
Übersicht

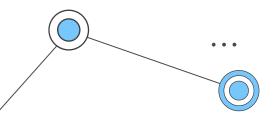


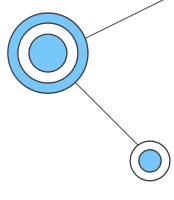
Funktionelle Anforderung

- Anwendung soll auf Linux und Windows laufen
- Daten werden direkt über die AAS bezogen
- Generation eines QR-Codes mit passenden Siegel
- Passende Fehlerbehandlung





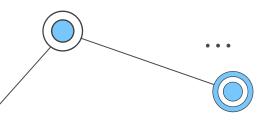


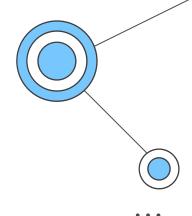


Allgemein

- API verfügbar unter <u>http://tinf-nameplate.ddns.net:54321</u>
- /NameplateGenerateByData als GET-Methode
- /NameplateGenerateByReference als POST-Methode



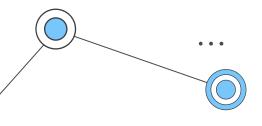


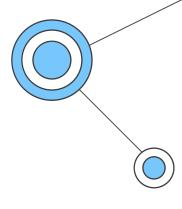


Nameplate mit eigenen Daten

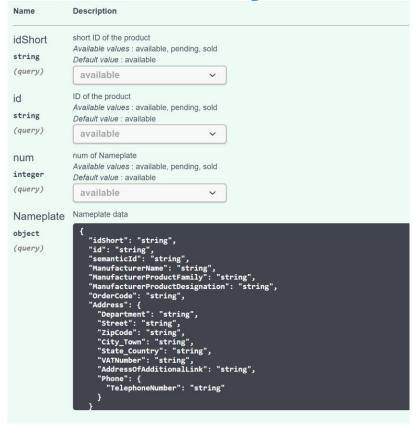
- POST-Methode
- User liefert alle benötigten Informationen selber



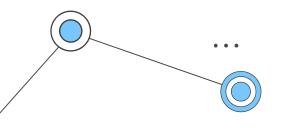


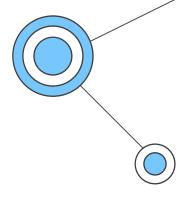


Nameplate mit eigenen Daten





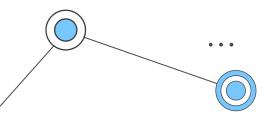


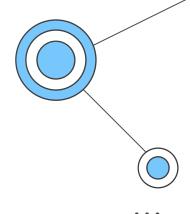


Nameplate aus AASX-Server

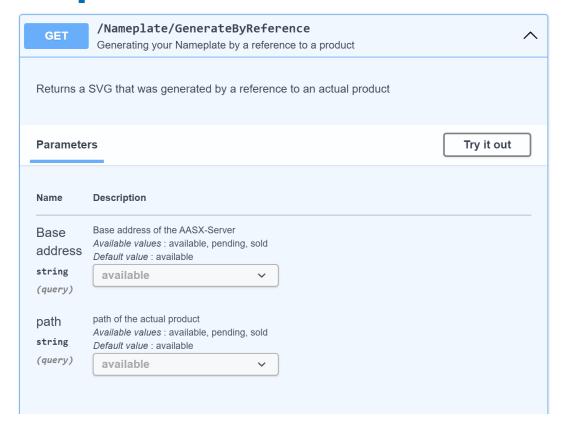
- GET-Methode
- User liefert:
 - AASX-Server
 - Pfad zum Produkt



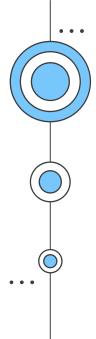




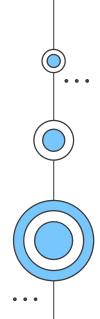
Nameplate aus AASX-Server

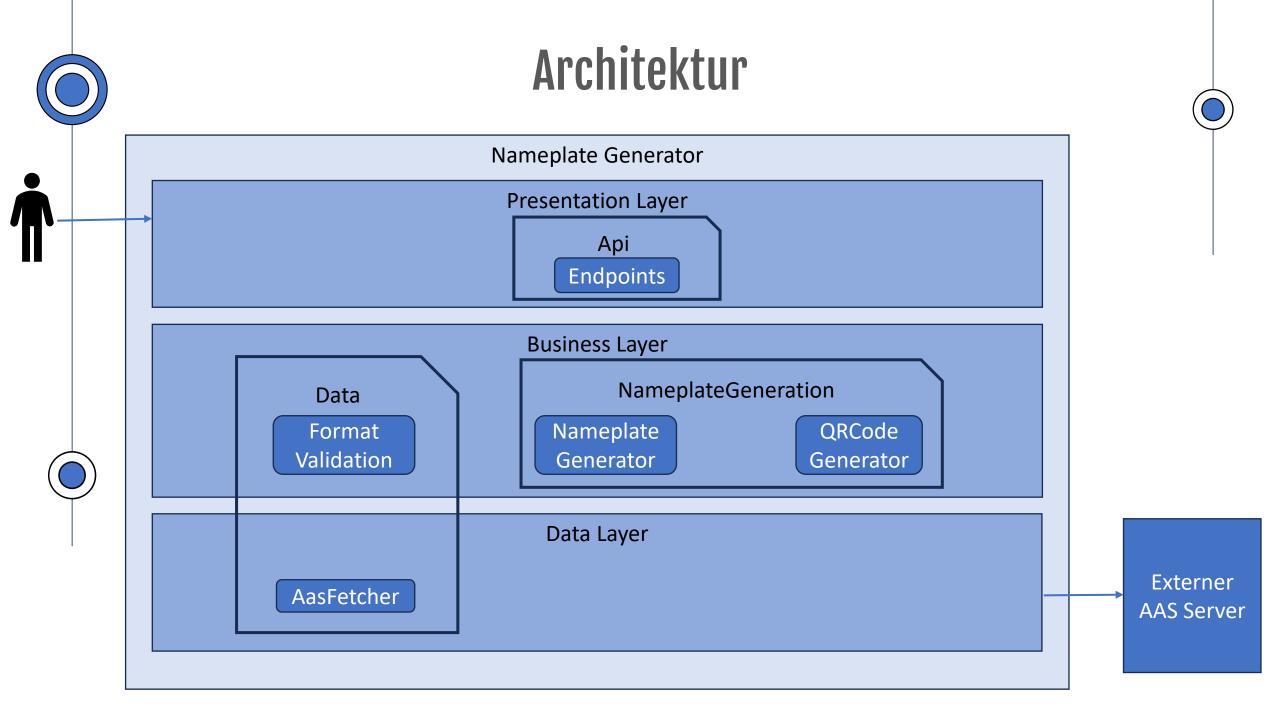






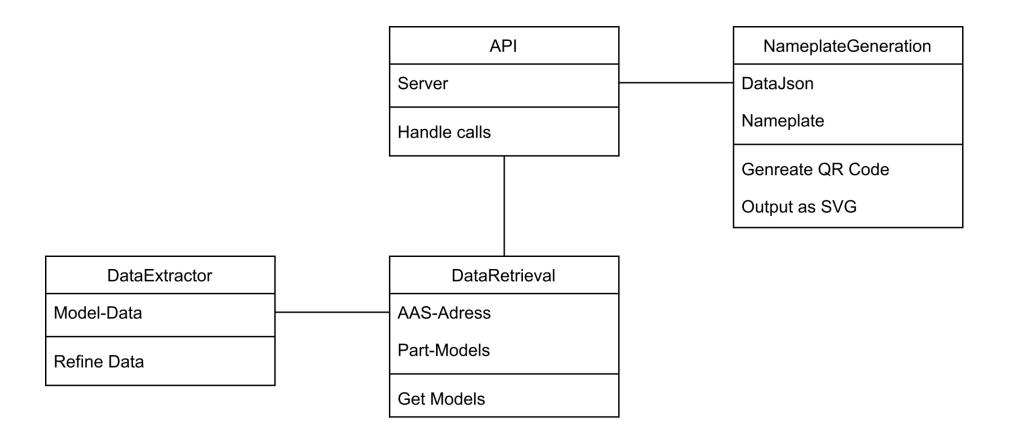
03 Architektur





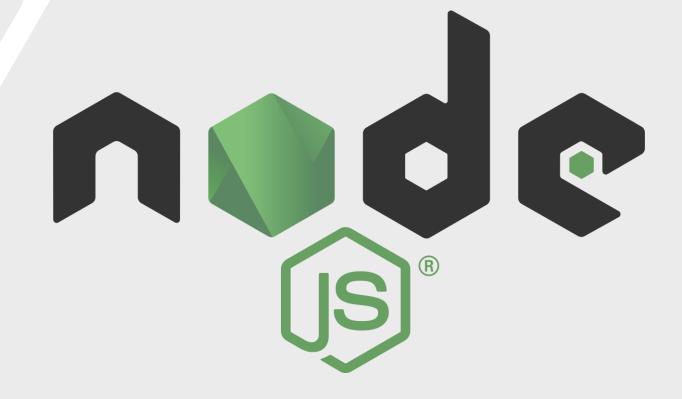


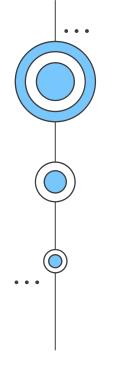
Architektur



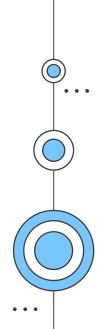
Architektur

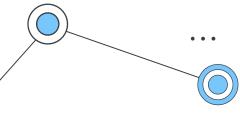






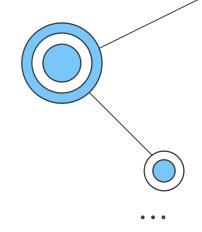
04 Zeitplan

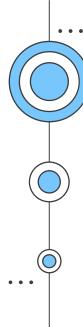




4. Semester

/										-
	ACTIVITY	WHO	FINISHED BEFORE	PLAN START	PLAN DURATION	ACTUAL START	ACTUAL DURATION	PERCENT COMPLETE	WEEKS 1 2 3 4 5 6 7 8 9 10 11 14 13 14 15 16 17 18 19 2	0
	API Specification	Tristan		9	2	9	2	100%		
	API Endpoints	Tristan	API Specification	10	2	10	5	100%		
	Formatchecker	Thomas		9	2	10	2	100%		
	AASFetcher	Florian		9	2	10	6	100%		
	NameplateGenerator	Robin		9	2	10	4	100%		
	QRCodeGenerator	Robin		11	2	11	5	100%		
	All modules together	Robin	Modules	13	3	16	3	100%		
	Technical Documentation	Tristan		11	8	13	5	100%		
	Write STP	Thomas		11	6	12	4	100%		
	Test System	Thomas	STP	12	6	14	6	100%		
	Write STR	Thomas	Test	13	6	14	6	100%		
	Server	Team	Projekt	17	3	16	4	100%		
	Finish wiki	Team	Projekt	19	1	19	1	100%		-
	Powerpoint	Team	Projekt	19	1	19	1	90%		
	Presenation	Team	Powerpoint	20	1			0%		





System Test Plan



System Test Plan : Ziel

Testen:

- JS Funktionalitäten
- REST API
- Server auf Linux und Windows







System Test Plan: Testumgebung

Hardware:

- Windows/Linux Umgebung
- Beliebiges Smartphone mit Kamera

Software:

- Postman
- NodeJS







System Test Plan: Teststrategie

- Testabdeckung
- Priorisierung (0-5)
- Testisolation







System Test Plan: Priorisierung

FR.001 Server läuft auf Windows und Linux

FR.002 Datenquellen für Nameplate

• • • • • •

FR.003 QR Code Generierung

 \circ \circ \bullet \bullet

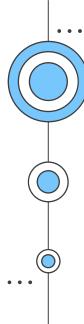
FR.004 Nameplate Generierung

FR.004 Fehlerbehandlung

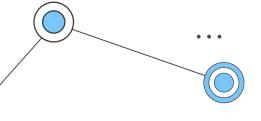




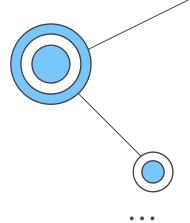




OG System Test Report



System Test Report: Testausrüstung



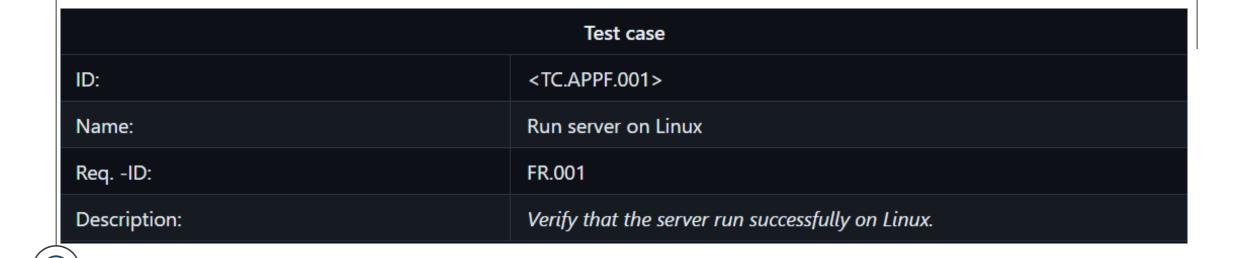
Hardware:

- PC Windows 11 Pro 64
- Google Pixel 6a

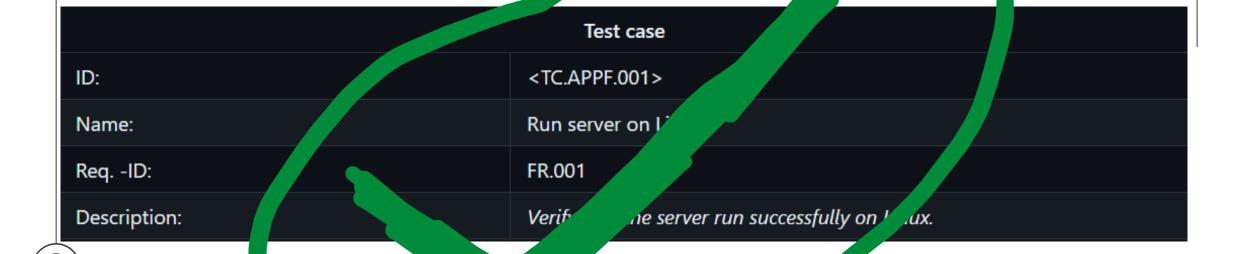
Software:

- WSL (Windows Subsystem for Linux)
- Postman V.11.0.6
- Microsoft Edge 114.0
- Kamera software vom Handy

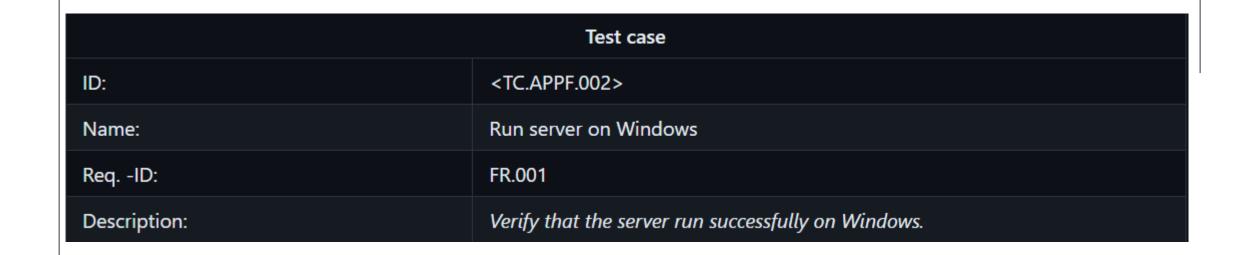




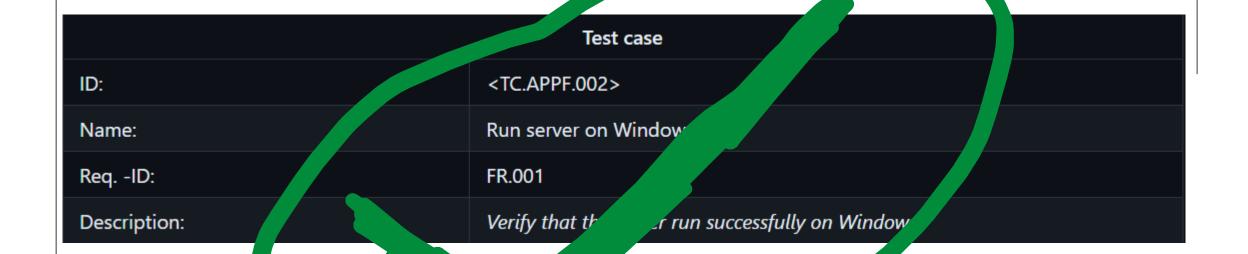




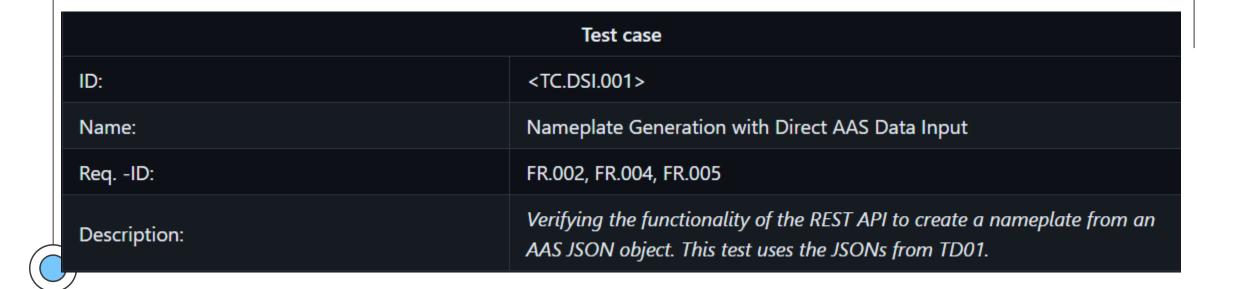








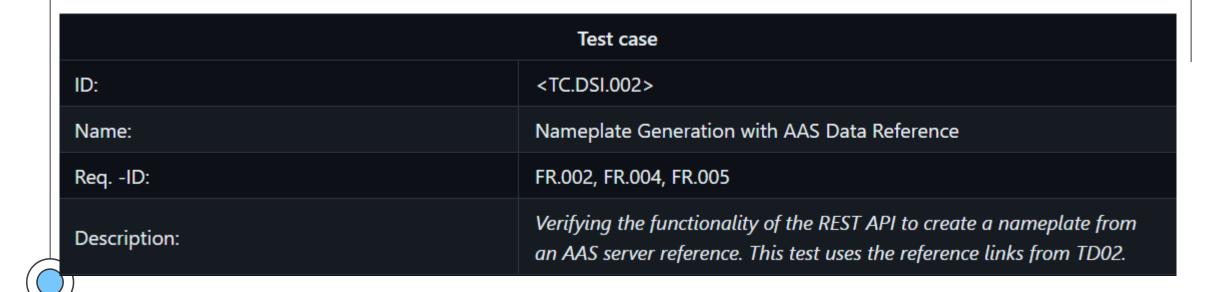




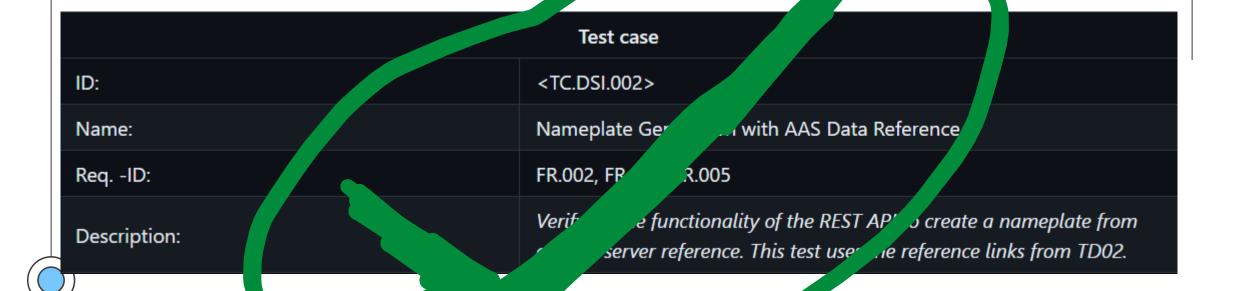


	Test case		
ID:	<tc.dsi.001></tc.dsi.001>		
Name:	Nameplate Ger	n with Direct AAS Data Inpu	
ReqID:	FR.002, FP	005	
Description:		ionality of the REST AP' of create of this test uses the JS of the TD01	nameplate from an





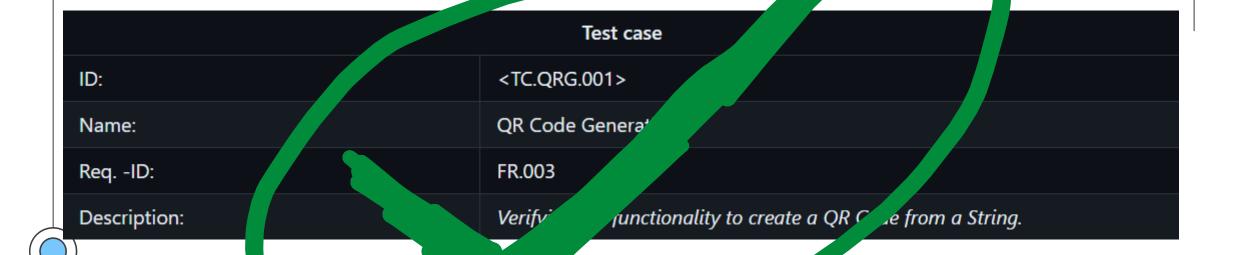


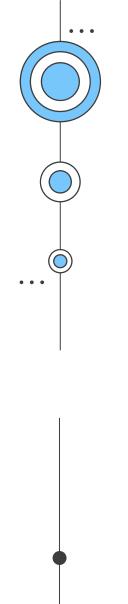




Test case			
ID:	<tc.qrg.001></tc.qrg.001>		
Name:	QR Code Generation		
ReqID:	FR.003		
Description:	Verifying the functionality to create a QR Code from a String.		

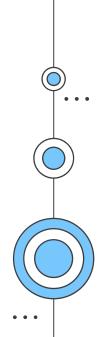


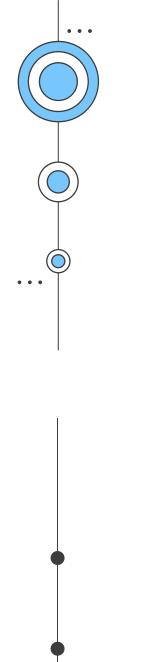




07

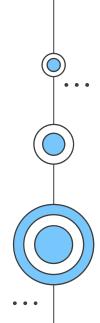
Live-Demo

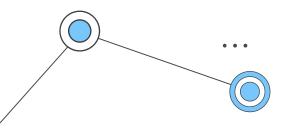




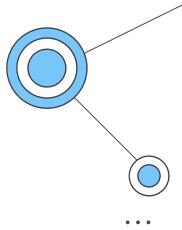
08

Fazit

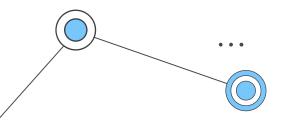




Rückblick

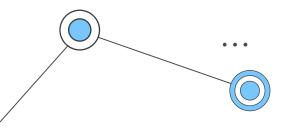


- Gute Organisation in Semester 3
- Ziel in Semester 4 erreicht
- API ist funktionsfähig

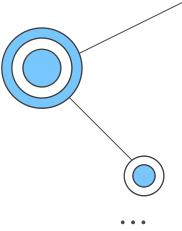


Lessons learned

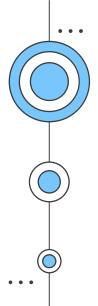
- Gute Vorplanung erleichtert die Umsetzung
- Teammitgliedern viel Freiheit lassen
- Sehr gute Teamkommunikation
- Mehr Zeit zum Programmieren einplanen



Ausblick



- API ist fertig
- Möglicherweise Änderungen in Zukunft notwendig aufgrund Änderungen bei den AAS-Servern



Danke!

Gibt's noch irgendwelche Fragen?

