

Impact	Class	Value									
	5	16PT									
	4	8PT									
	3	4PT									
	2	2PT									
	1	1PT									
			1,00%	5%	10%	25%	50%	Value (in %)			
			1	2	3	4	5	Class			
								Probability			

RISK-ID	Risk Description	Probability	Impact	Mitigation Strategy	Indicator	Contingency Plan	Reponsible	Status	Last modified date	Legende	Erklärung
B-1	Inadequate testing and quality assurance	25%	16PT	Use of SonarQube with dedicated quality gates to ensure consistent quality characteristics.	Quality gate not passed under new code	If it does not pass the quality gate, try to fix as many issues as possible and also increase code coverage as much as possible.	Marius	IN PROGRESS	16.04.2024	BA	BabyPortAgent
B-2	Poorly designed architecture	25%	16PT	Revision of the code architecture with design patterns and focus on testability and maintainability.	Poor testability and maintainability.	Partial improvement of the architecture.	Nils	DONE	16.04.2024	B	BabyPort
B-3	Unforeseen technical complexities	10%	8PT	Research and document the complexity and then break it down into small tasks.	Unforeseen problems.	Realisation of emerging problems as best as possible.	Nils	PENDING	16.04.2024	PENDING	Noch nicht betrachtet
B-4	MQTT-Broker is not available	5%	2PT	Use HA and fault tolerance for the hosting platform.	Monitoring system alert that MQTT broker is no longer available.	Restart the virtual machine on a new host or restore from backup	Felix	IN PROGRESS	16.04.2024	IN PROGRESS	Betrachtet und Vermeidungsstrategien in Umsetzung
BA-1	Inadequate testing and quality assurance	10%	8PT	Use of SonarQube with dedicated quality gates to ensure consistent quality characteristics.	Quality gate not passed under new code.	If it does not pass the quality gate, try to fix as many issues as possible and also increase code coverage as much as possible.	Marius	PENDING	16.04.2024	DONE	Durchgeführt
BA-2	Poorly designed architecture	10%	4PT	Revision of the code architecture with design patterns and focus on testability and maintainability.	Poor testability and maintainability.	Partial improvement of the architecture.	Nils	DONE	16.04.2024		
BA-3	Unforeseen technical complexities	10%	4PT	Research and document the complexity and then break it down into small tasks.	Unforeseen problems.	Realisation of emerging problems as best as possible.	Felix	PENDING	16.04.2024	Source: https://www.geeksforgeeks.org/software-risk-analysis/	
BA-4	MQTT-Broker is not available	5%	2PT	Use HA and fault tolerance for the hosting platform.	Monitoring system alert that MQTT broker is no longer available.	Restart the virtual machine on a new host or restore from backup.	Felix	IN PROGRESS	16.04.2024		