Impact	Class	Value									
	5	16PT									not acceptable
	4	8PT									investigate
	3	4PT									acceptable
	2	2PT									
	1	1PT									
			1,00%	5%	10%	25%	50%	Value (in %)			
			1	2	3	4	5	Class			
								Probability			

RISK-ID	Risk Description	Probability (Class(%))	Impact (Class(PT))	Score	Mitigation Strategy	Indicator	Contingency Plan	Reponsible	Status	Last modified date
B-1	Inadequate testing and quality assurance	**4** (25%)	**5** (16PT)	**20**	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	20.04.2024
B-2	Poorly designed architecture	**4** (25%)	**5** (16PT)	**20**	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	20.04.2024
B-3	Unforeseen technical complexities	**3** (10%)	**4** (8PT)	**12**	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	20.04.2024
B-4	MQTT-Broker is not available	**2** (5%)	**2** (2PT)	**4**	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	20.04.2024
BA-1	Inadequate testing and quality assurance	**3** (10%)	**4** (8PT)	**12**	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	20.04.2024
BA-2	Poorly designed architecture	**3** (10%)	**3** (4PT)	**9**	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	20.04.2024
BA-3	Unforeseen technical complexities	**3** (10%)	**3** (4PT)	**9**	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	20.04.2024
BA-4	MQTT-Broker is not available	**2** (5%)	**2** (2PT)	**4**	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	20.04.2024

Legende	Erklärung
BA	BabyPortAgent
B	BabyPort
PENDING	Noch nicht betrachtet
IN PROGRESS	Betrachtet und Vermeidungstrategien in Umsetzung
DONE	Durchgeführt

Source: https://www.geeksforgeeks.org/software-risk-analysis/