CSLAB – Final Delivery

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Safety and Reliability Analysis
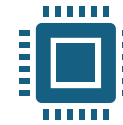
Tracebility

		A	B	C	D	E	F	G	H	I
		Automated Lig...	Automated H...	User Interface	Hazard Mitigation	Notification System	WSN Network	Fail-safe Mech...	**Robust Input ...**	Fault-toler...
0	⊟ System Requirem...	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	Natural Light A...	☑	☐	☐	☐	☐	☐	☐	☐	☐
3	Artificial Light C...	☑	☐	☐	☐	☐	☐	☐	☐	☐
4	Heating Control	☐	☑	☐	☐	☐	☐	☐	☐	☐
5	Preference Conf...	☐	☐	☑	☐	☐	☐	☐	☐	☐
6	Preference Notif...	☐	☐	☐	☑	☑	☐	☐	☐	☐
7	Failure Prevention	☐	☐	☐	☑	☐	☐	☐	☐	☐
8	Temporary Fix	☐	☐	☐	☑	☐	☐	☐	☐	☐
9	Wireless Sensor...	☐	☐	☐	☐	☐	☑	☐	☐	☐
10	**Input Validati...**	☐	☐	☐	☐	☐	☐	☐	☑	☐
11	Error Notificatio...	☐	☐	☐	☐	☑	☑	☐	☐	☐
12	Self-Diagnostic...	☐	☐	☐	☐	☐	☐	☐	☑	☐
13	Fault Isolation ...	☐	☐	☐	☐	☐	☐	☐	☐	☑

Improvements made to the system

Logic on the blinds

Assembly Functionality

Real Time Tasks

Smart Data Model

Demo

Teamwork Management

	Type	# Key	☰ Summary	⊙ Status	◯ Sprint	@ Assignee	📅 Due date	🏷 Labels	📅 Created	📅 Updated	@ Criador	+
☐	☑	SCRUM-2	Problem Domain - White Box	CONCLUÍDO	⊘ Sprint 1	👤 André Filipe Almeida...			9/12/2024	10/12/2024	👤 Jorge Rafael Novais ...	
☐	☑	SCRUM-3	List of technologies to use	CONCLUÍDO	⊘ Sprint 1	👤 Jorge Rafael Novais ...			9/12/2024	10/12/2024	👤 Jorge Rafael Novais ...	
☐	☑	SCRUM-1	Problem Domain - Black Box	CONCLUÍDO	⊘ Sprint 1	👤 Jorge Rafael Novais ...			9/12/2024	10/12/2024	👤 Jorge Rafael Novais ...	
☐	☑	SCRUM-4	List of sensors to use	CONCLUÍDO	⊘ Sprint 1	👤 André Filipe Almeida...			9/12/2024	10/12/2024	👤 Jorge Rafael Novais ...	
☐	☑	SCRUM-8	Functionality written in assembly	CONCLUÍDO	⊘ Sprint 2	👤 André Filipe Almeida...			18/12/2024	18/12/2024	👤 André Filipe Almeida...	
☐	☑	SCRUM-6	Concurrency and RT scheduling parameters	CONCLUÍDO	⊘ Sprint 2	👤 Jorge Rafael Novais ...			18/12/2024	18/12/2024	👤 André Filipe Almeida...	
☐	☑	SCRUM-9	Report	CONCLUÍDO	⊘ Sprint 2				18/12/2024	18/12/2024	👤 André Filipe Almeida...	
☐	☑	SCRUM-7	Baseline communication software infrastructure	CONCLUÍDO	⊘ Sprint 2	👤 André Filipe Almeida...			18/12/2024	18/12/2024	👤 André Filipe Almeida...	
☐	☑	SCRUM-5	Solution Domain	CONCLUÍDO	⊘ Sprint 2	👤 Jorge Rafael Novais ...			18/12/2024	18/12/2024	👤 André Filipe Almeida...	
☐	☑	SCRUM-10	Threads tasks	CONCLUÍDO	⊘ Sprint 3	👤 André Filipe Almeida...			26/12/2024	13/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-12	server node red	CONCLUÍDO	⊘ Sprint 3	👤 Jorge Rafael Novais ...			26/12/2024	13/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-13	conexão mqtt (node -red)	CONCLUÍDO	⊘ Sprint 3	👤 Jorge Rafael Novais ...			26/12/2024	13/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-11	separar arduinos	CONCLUÍDO	⊘ Sprint 3	👤 André Filipe Almeida...			26/12/2024	13/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-14	RAMDE/RTAES/COMCS (update se tivermos tempo)	CONCLUÍDO	⊘ Sprint 3	👤 André Filipe Almeida...			26/12/2024	16/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-15	Atualizar concorrência	CONCLUÍDO	Sprint 4	👤 André Filipe Almeida G			13/01/2025	16/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-16	Atualizar lógica dos blinds	CONCLUÍDO	Sprint 4	👤 Jorge Rafael Novais ...			13/01/2025	16/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-17	Adicionar Buffers (Blinds / Heater)	CONCLUÍDO	Sprint 4	👤 André Filipe Almeida...			13/01/2025	16/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-18	Atualizar RAMDE	CONCLUÍDO	Sprint 4	👤 Jorge Rafael Novais ...			13/01/2025	16/01/2025	👤 André Filipe Almeida...	
☐	☑	SCRUM-19	Nova funcionalidade em assembly (CCSYA)	CONCLUÍDO	Sprint 4	👤 André Filipe Almeida...			13/01/2025	16/01/2025	👤 André Filipe Almeida...	

Teamwork Management

In conclusion...