Stakeholders	Requirement ID	Requirement Type	Requirement Description	Priority	Risk	Notes
Resident/Landlords	REQ 1	Functional	System should detect various household flammable gases	H		
Resident/Landlords	REQ 2	Functional	System should detect if there's a water flooding or leaking	H		
Resident/Landlords	REQ 3	Functional	System should detect if the temperature rises above 50 degrees	H		
Resident/Landlords	REQ 4	Functional	System should notfiy the resident/landlord of the event origination	H		
Resident/Landlords	REQ 5	Functional	System should notfiy the user what type of event was triggered	H		
Fire department	REQ 6	Functional	System should noitfy authorities if flooding does not drop to 3 feet or below within 4 hours	M		
Fire department	REQ 7	Functional	System should noitfy fire department if temperatures do not drop to normal levels (below 40C) within 4 hours	M		
Fire department	REQ 8	Functional	System should noitfy home owner if humidity do not drop to normal levels (below 40C) within 4 hours	M		
Resident/Landlords	REQ 9	Functional	System should measure humidity	H		
Resident/Landlords	REQ 10	Functional	System should noitfy fire department if smoke alarms detect any gas for more than 15 minutes	M		
Resident/Landlords	REQ 11	Functional	System should detect temperature drops below 10 degrees	H		
	REQ 12	Non-Functional	System should be able work with both wifi a	H		
Resident/Landlords	REQ 13	Non-Functional	The system MQTT broker should be able to connect no less than 20 clients	H		Capacity/Scalability
Resident/Landlords	REQ 14	Non-Functional	The system will utilize MQTT protocol for stable low bandwidth event streams	H		Reliability