Assessment Criteria for Group Work (out of 20)

	Tasks completion		Taking initiatives and leads			coordination		Communication		Respect		
Team	Finishing	Finishing	Finishing	Stepped	followed	Just	Was the	Was the	The	Missed some	The student	The student
Member	task in	task on	tasks on	up to	through	completed	coordinator	person	person	meetings but	missed	respected
	time or	time	time with	learn a	with the	the task	reported	project	attended	managed to	many	others and
	on time	with a	minimum	new	tasks	that was	the team	coordinator	most	make his	meetings or	listened to
	with an	good	quality	skill or	and .	assigned to	member	(1)	meetings	presence clear	was	different
	excellent	quality	(0-2)	take the	showed	him/her,	who did		and	and responded	irresponsive	opinions (2-
	quality	(5-3)		most	some	avoided	not		responded	to written	(0-1)	0)
	(8-6)			difficult	initiative	challenging	complete a		in a clear	communication		
				task	(2-1)	tasks (0)	task or had any follow		and timely	(2)		
				(5-3)			ups?		manner (3)			
							(2)		(5)			
Khoi Ly	7			4		2 2		2			1	
	I was tasked with developing			My initial task was around the			I was the one allocating		I attended all team meetings and		l was	
	the edge servers for both			same level of difficulty as the			tasks for other team		sometimes called for meeting myself. I		generally	
	branch of the project: the			others, involving serial and			members, b	bers, based on also ensure that every		e that every chan	ge I made to	listened to
	inside and the outside,			MQTT communication,			Jeren's and	mine	the program is clearly communicated,		nunicated,	other
	including features such as			database handing, and API			proposed ar	chitecture. I	. I with detailed explanation of what have		f what have	suggestion
	Discord A	Discord API called, MQTT and			calling. This task required me			was also the one to been do		en done and what should be done in		and
	Serial communication. I was			to learn new concepts and			propose new features, future		future imp	lementation.		welcome
	also responsible for ensuring			techniques like ensuring that			as well as designing the					inputs at
	that the programs from			the data taken from serial is		MQTT topic structure					the start of	
	different abstract layers work			compatible with that of MQTT			for the team	n to follow.				the project.
	seamlessly together, while			and vice versa; working with							Towards	
	also recording the			Discord API; or handling								the end of
	demonstration by myself. I			threading problems for non-							the project,	
	was not t	was not taking a significant			blocking processes. In							however, I
	part, how	part, however, due to my			addition, in trying to integrate							started to
	times bei	times being mostly dedicated			all different components							refuse
	to develo	to development and			together, I also learned to use							some of
	demonst	demonstration. I finished my			OpenWeather API to get							the team's

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	tasks on time with excellent	weather data, implement			suggestion
	quality, adhering to the initial	more robust actuators			due to time
	proposed architecture with	condition, as well as daily			constraints.
	some additional features	scheduling processes for			
	proposed by others (inside	Discord report generation. I			
	acknowledgement and	wasn't taking the initiative to			
	dataset analytics).	start the project, however,			
		since I waited quite late until I			
		implemented my program.			
Ved Jay	3	3	1	1	2
Makhijani	Ved was tasked with	Ved was implementing the	Ved had some	Ved communicated quite frequently at	Ved was an
	implementing all	cloud layer, which involves	innovative suggestions,	the start and towards the very end of	agreeable
	functionalities of the cloud	ThingsBoard dashboard	but mostly tried to	the project, however he didn't	member,
	server, including the cloud	design, RPC request handling,	follow the initial	communicate much during the period in	who always
	user interface hosted on	OpenWeather API handiling,	proposed plan. He also	between. He also did not attended a lot	calm in
	THingsBoard and a script to	and ream-time data	suggested the database	of meetings that he said he was going to	demeanour
	initiate Openweather API call	visualisation; all of which were	analytics.	attend; while also did not fully	towards
	and collect MQTT messages.	relatively new and required		comprehended the concepts and	others,
	His work, while function on	some research. But he		summaries that were communicated,	even when
	its own, did not work with	implements his part very late		leading to his implementation majorly	his ideas
	other parts due to the data	into the project, which is on		flawed and incompatible.	were
	structure the cloud server	the day of demonstration.			rejected or
	used to transmit data was	Before which he never takes			when he
	completely different from the	initiative in any way. However,			received
	one that the edges expected,	he was the one suggesting			complains
	despite my effort to	database analytics, despite his			about his
	communicate the expected	suggestion being vastly vague			work.
	data structure many days	and ambiguous.			
	earlier. He was also starting				
	his work much later than the				
	rest of the team, having				
	barely a complete work on				
	the day of demonstration				

Jeren Tang	while also containing many bugs and were completely incompatible with our implemented program. 5 Jeren was tasked with	3 Jeren was responsible for	1 Jeren was the first one	2 Jeren was very adept in sharing	2 Jeren
	developing the entirety of the physical layer, including interfacing with the light, temperature, and sound sensors; the LED, servo motor, and fan motor actuators.; as well as transmit the data received from sensors and actuators to the edge layer. His work was functional, albeit not fully compatible with the edge servers and required minor adjustment to be made. This is understandable, because he was the first member to finish his work, when no other parts have been completed yet, leading to him not having full reference on what he should implement.	programming the Arduinos to read, processed, and transmitted the sensors and actuators data; all of which required sophisticated understanding of the electronic components that were used in the system. He was also the first one to propose the initial architecture of the system, while also suggesting the bidirectional communication between the outside and inside branches, helping us adhere more to the assignment requirement.	to proposed the system's general concept. He also proposed the bidirectional communication between inside and outside branches. He followed the proposed architectures afterward.	information about his work and his intention, making working with him very pleasant. He also took the initiative to call for meetings multiple times, while also attended all meetings dully. However, he rarely contributed to the meetings when he was there, which may come from the fact that me and Ved were working intensely with the edge servers and cloud while his part of the system, the physical devices, were largely unnecessary for that instance.	respected other opinion, and took on criticism very well; aiming to fix the issues in his code without raising complaints.