

TASK NO	CLO	MARKING SCHEME	MARKS
1a	4	Using 2 Gmail addresses.	2
		Success to send email from NodeRed to Gmail account.	5
		Manage to send email with interval 30 seconds.	2
		Provide evident of solution (Flow diagram, sending → Debug, and received emails → Gmail account).	3
		Submit flows.py (Menu → Export → Download).	3
2a	4	Success to pronounce BM/BI sentences.	5
		Provide evident of solution (Flow diagram & UI).	2
		Submit flows.py (Menu → Export → Download).	3
2b	4	The donut gauge reacts accordingly to the slider movement.	5
		Provide evident of solution (Flow diagram & UI).	2
		Submit flows.py (Menu → Export → Download).	3
3	5	Arrange the output accordingly by placing the nodes at the respective groups.	5
		Correct Tab Name.	5
		Created 3 Groups.	5
		Slider and level gauge for water level.	5
		Slider and donut gauge for server room.	5
		TTS with proper narrator.	5
		Provide evident of solution (Flow diagram & UI).	2
		Submit flows.py (Menu → Export → Download).	3
TOTAL			70

QUESTION

Task	Description	Marks
	<p>The tasks must be deployed using NodeRED visual development tool with a group of two students. Submit the screen capture together with its source code named with task number and group members i.e., task1_Ali_Nawas.json:</p> <p>Task 1 – Non GUI – require debug window Task 2 – A Single App Dashboard Task 3 – Full Dashboard</p>	
1.	<p>Create 2 new Gmail accounts. One is use as sender/source and another one is for receiving/destination the email.</p> <p>Develop a simple solution that will send an email to the with the content of you names and student id.</p> <p>The email will send automatically every 30 seconds. The email sent must be shown at debug window.</p> <p>Note: Make sure to allow less secure apps. Refer to the following link: https://myaccount.google.com/lesssecureapps?pli=1</p>	15
2.	a. Create a Text to Speech (TTS) system that will pronounce Bahasa Malaysia / Bahasa Indonesia	10
	b. Connect a slider with a donut gauge that will create a temperature display. The reading will start from -5°C to +30°C. The gauge must show the unit too.	10
3.	<p>The Design of Advance Monitoring System User Interface. Produce an a system as shown in Figure 1 and Figure 2, with the following criteria:</p> <ul style="list-style-type: none"> i. Tab name: <i>Advanced Monitoring System</i>, ii. 3 Goups: <i>Sensor Read, Output and Voice Testing Area</i>, iii. Water Level No 1 Slider with Water Level Gauge, 0m to 10m, iv. Server Room Temperature with Donut Gauge, -5°C to +27°C, v. TTS system with BI slang. 	35

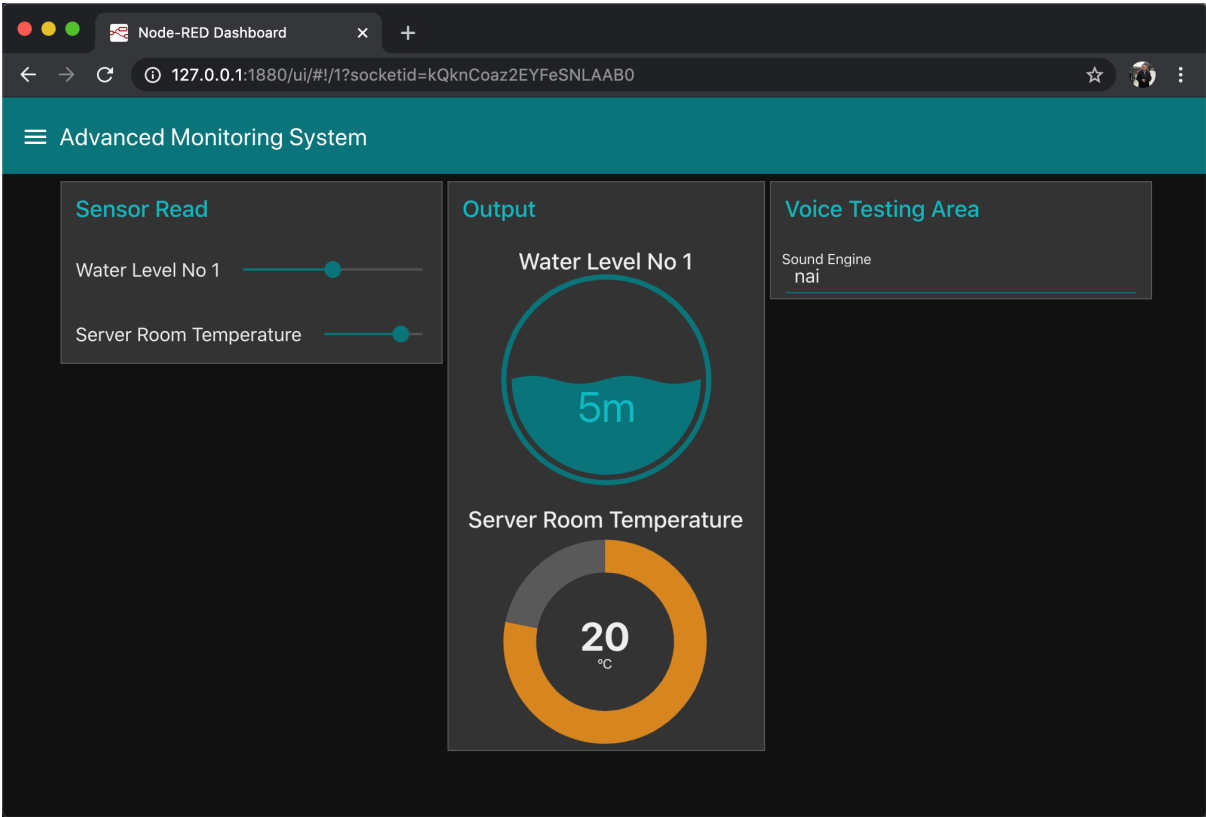


Figure 1: The User Interface of Advanced Monitoring System

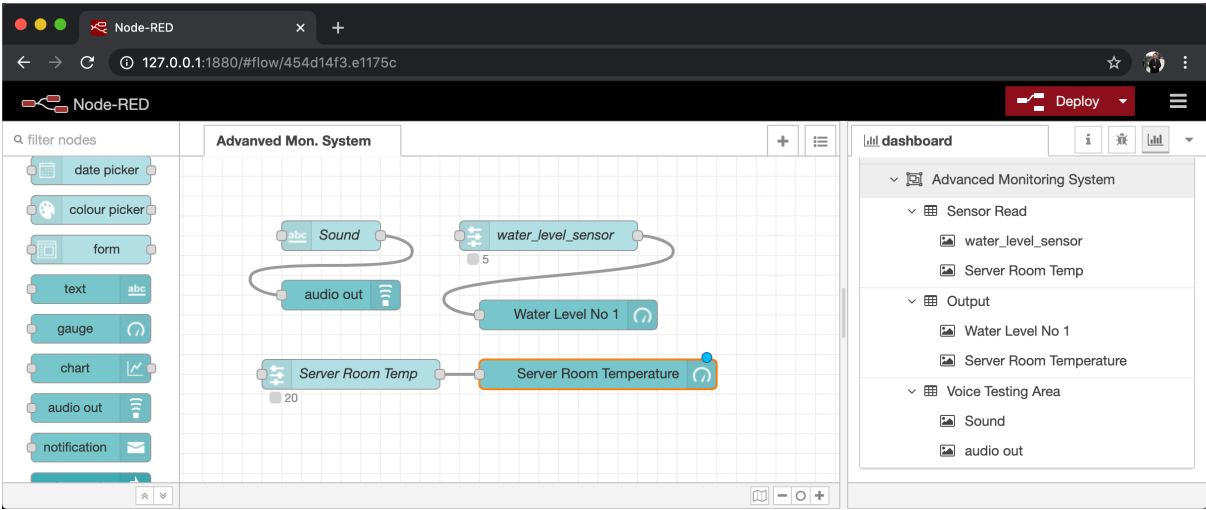


Figure 2: Flow arrangement