Note: Combined deadline with Phase 3

PHASE 2	2В: Dата	Presentation & Management (Deadline: 9 March 2025)	(SUBTOTAL: 18')
n this	phase, yo	u will implement the core functions of the website with mainly Node and SQL.	
1.	SQL: Cr	eate a database with the following structures	/ 1'
	0	A table for <i>categories</i>	
		 Required columns: catid (primary key), name 	
		 Data: at least 2 categories of your choice 	
	0	A table for <i>products</i>	
		 Required columns: pid (primary key), catid, name, price, description 	
		 Data: at least 2 products for each category 	
2.	HTML,	Node** & SQL: Create an admin panel [+Backend functions]	
	О	Design several HTML forms to manage* products in DB	/ 2'
		 Dropdown menu to select catid according to its name 	
		 Input fields for inputting name, price 	
		 Textarea for inputting description 	
		 ^ File field for uploading a product image (format: jpg/gif/png, size: <=10MB)
	0	Design several HTML forms to manage* categories in DB	/ 2'
	0	Submitting the Form to the backend server API result in a DB update.	/ 3'
		 (part of Phase 4 Requirement) Try to apply input validation 	
*	n terms o	of management, it includes the capabilities of insert, update, and delete products	
^ F	or the file	e uploaded, store it with its name based on the unique ID(or other reasonable ways)	
			/ 1'
3.	HTML,	Node**, SQL: Update the <i>main page</i> created in Phase 1	
	0	Populate the category list from DB	/ 1'
		 It can be server-rendered or updated on client-side with Javascript 	
	О	Based on the category picked by user, populate the corresponding product list from D)B/ 3'
		 e.g., the catid=[x] is reflected as a query string in the URL (or other method) 	
4.	HTML,	Node** & SQL: Update the <i>product details page</i> created in Phase 1	/ 2'
	О	Display the details of a product according to its DB record	
5.	Suppor	ting automatic image resizing for product images	/3'
	0	When a large image is uploaded, the server will resize it (to a fixed, reasonable resolution thumbnail image. [e.g., two image files with different names for a product]	tion) and show a
	0	On the main page display thumbnails. In the product description page, display the la	rger image

^{**:} Other backend languages accepted

In this p	hase, yo	u will implement the shopping list which allows users to shop around your products. This phase is designed to
let you p	oractice.	Javascript programming.
1.	JS: Dyna	amically update# the shopping list (to be covered in tutorial)
	0	When the <i>addToCart</i> button of a product is clicked, add it to the shopping list/ 1' • Adding the same product twice will display only one row of record
	0	Once a product is added, • Users are allowed to update its <i>quantity</i> and delete it with a number input, or/ 1' two buttons for increment and decrement
		 Store its <i>pid</i> and <i>quantity</i> in the browser's localStorage/ 2' Get the <i>name</i> and <i>price</i> over AJAX (with <i>pid</i> as input)/ 3' Calculate and display the total amount at the client-side/ 1'
	0	Once the page is reloaded, the <i>shopping list</i> is restored Page reloads when users browse another category or visit the product detail page Populate and retrieve the stored products from the localStorage
	0	[Optional] Try to adopt an OOP design for the shopping cart (and cart item).

(SUBTOTAL: 10')

PHASE 3: AJAX SHOPPING LIST (DEADLINE: 9 MARCH 2025)

[#]The whole process of *shopping list* management must be done without a page load