Project (45%)

The Project is consist of THREE (3) parts:

- a. Project Design (5%) → Submit by 11 June 2021, 11.55pm through eLeap
- b. Project Output (20%) → Submit by 14 June 2021, 8.00am through eLeap
- c. Contribution & QA (20%) → Project Presentation in Week 13

Project Description

Your group is hired by a nutritionist to build a Meal Diary (with Graphical User Interface using Java) that records the user's breakfast, lunch and dinner. For each meal, the users can perform the CRUD operations (create (add), read (view), update (edit) and delete) of the following:

- a. Image
- b. Name (e.g. nasi lemak)
- c. Food group (Fruits, Vegetables, Grains, Protein Foods, Dairy)
- d. Date
- e. Dav
- f. Drink (e.g. Teh C Peng special)

Additionally, the users should be able to search for their past meals, and filter their search of meals based on the Food Group (Fruits, Vegetables, Grains, Protein Foods, Diary).

The Meal Diary should have the following basic functionalities:

- i. add a new record
- ii. view an existing record
- iii. edit an existing record
- iv. delete an existing record

and the following two more advanced functionalities:

- v. general search for their past meals
- vi. filter search their meals based on the food group.

The exact implementation of the features is based on your own ideas and creativity. Please refer to the rubric on how to score marks for this group exercise.

For **Project design**, you are to design your project using the Unified Modeling Language (UML). Do refer to the rubrics for details of the design. Submit your project design document with the assignment cover in a **single .pdf** (named with your group name, e.g. MOTS.pdf) only by 11 June 2021, 11.55pm. If the document is not in .pdf format, your group will have 0 mark.

For **Project**, zip your java files and the assignment cover document and name the .zip file with your group name (e.g. MOTS.zip). Submit your .zip file by 14 June 2021, 8.00am. If the submission is not in .zip format, your group will have 0 mark.

Project presentation will be in Week 13. If you did not attend and present the project, you will have 0 mark. Booking of presentation slot will be available in Week 12.

IMPORTANT NOTE: Failure to follow the submission requirements, will result in penalty.

Rubrics

Part A: Project Design (5%)

	0m	2m	3m
Classes, Attributes and Methods [CLO1)	Less than 3 classes OR for each class Less than 2 attributes and methods	at least 3 classes AND for each class, 3 attributes AND 3 methods	-
Association (including inheritance, polymorphism) [CLO1]	Incorrect association between classes, AND missing inheritance and polymorphism	Classes are associated corrected with incorrect inheritance relationship and no polymorphism	All classes are associated correctly, with correct inheritance and polymorphism and matches with the project output.

Part B: Project Output (20%)

rait B. Froject Outp	Part B: Project Output (20%)						
	0m	2m	4m				
Number of	Less than 2	2 classes	3 classes or more				
implemented	classes	AND	AND				
classes and	OR	2 interfaces (not	3 interfaces (not GUI) or				
interfaces [CLO2]	Less than 2	GUI)	more				
	interfaces (not						
	GUI)						
	,						
Basic	Less than 2 from	At least 2 from (i.)	All basic functionalities, i.e.,				
functionalities	(i.) to (iv.) are	to (iv.) are working	(i.) to (iv.), are working				
[CLO2]	working	correctly	correctly, and have at least 7				
	correctly	,	days records of meals				
	-						
General Search	Does not exist /	Search query can	Search query can involve				
function [CLO2]	Is not working	only involve one	two fields (or more) at a				
		field at a time,	time,				
		e.g.,	e.g.,				
		Search for records	Search for records that fulfil				
		that fulfil the	the following criteria:				
		following criteria:	"lunch" and "vegetable"				
		"breakfast" or					
		"nasi lemak"					

Filter Search	Does not exist /	Can only generate	Can generate report that can	
Report	is not working	a single, unfiltered	be filtered by the food	
[CLO2]		report.	group.	
GUI menu & Flow	Confusing / only	Simple GUI menu	Well-designed GUI and	
[CLO2]	text-based	with acceptable	logical flow of program.	
	menu	flow of program		

Part C: Contribution and Question and Answer (20%)

	0m	3m	5m	7m	10m
Contribution (CLO2)	No	Only code 1	Code 1 class	Code more	Code more
(CLO2)	contribution	class	AND	than 1 class	than 1 class
	to the	OR 1	code 1	AND code	AND code
	project at all	interface	interface	more than 1	more than 1
				interface	interface AND
					test/debug
					other
					members'
					class/interface
Peer Grading (CLO3)	(Peer review form 5m. Available in Week 13)				
	0m	1m	3m	5m	
Question & Answer	Missing in	Able to	Able to	Able to	
(CLO 1)	action during	present but	present but	present,	
	Q & A	cannot	partially	answer the	
	session	answer the	answer the	questions	
		question	questions	well and	
			correctly	pinpoint in	
				the code for	
				the correct	
				answer	

All the best!