

COLLEGE OF COMPUTING AND INFORMATICS PUTRAJAYA CAMPUS

FINAL PROJECT

SEMESTER 2 2023/2024

PROGRAMME : Bachelor of Computer Science (Software Engineering)

(Hons.), Bachelor of Computer Science (Systems and Networking) (Hons.), Bachelor of Computer Science (Cyber Security) (Hons.), Bachelor of Information Technology (Information Systems) (Hons.), Bachelor of Information Technology (Graphics and Multimedia)

(Hons.)

SUBJECT CODE : CSNB544/CSNB5123

SUBJECT : Mobile Application Development

DATE : March 2024 (Week 4)

DURATION : 14 Weeks

INSTRUCTIONS TO CANDIDATES:

- 1. The total marks for this final project assessment is 100.
- 2. There are **TWO** (2) **SECTIONS** to this assessment: Section A and Section B.
- 3. This is an individual assessment.

THIS QUESTION PAPER CONSISTS OF TEN (10) PRINTED PAGES INCLUDING THIS COVER PAGE

Instructions:

The theme for this semester is **Energetic Lifestyle**

Develop a mobile application according to the theme assigned to you. The mobile application should contain the following components:

- A related icon to represent your application.
- A splash screen to be displayed when the application is launched.
- An about page to describe the application and developer.
- Some pages to present your application features.
- Include storage: File OR Database

You are required to use **Visual Studio Tools for .NET MAUI (Windows)** or **Visual Studio 2022 and above for Mac (macOS)** as the development tool. The application to be developed should be written in a **.NET MAUI framework** and can be deployed on Android, iOS, or both. For the database, if you are using a local database, you need to use **SQLite**. If you are using an online database, you need to use **Google Firebase**.

Your application must be original, not inherited or replicated from any existing application, not inherited from any Final Year Project, and it must be different from each other.

You should submit the following materials before the presentation session:

- **ONE** (1) PDF file The whole question paper with completed answers in Section A
- **ONE** (1) .zip file that contains the answer for Section A (.pdf file), the Project folder URL containing the Project Files and a video of the project demonstration.

This project is an individual assessment. Any similarity/plagiarism will result in zero mark for the whole project.

You are **NOT ALLOWED** to reuse the BMI calculator as a part of your application since the BMI application was used as part of your lab work.

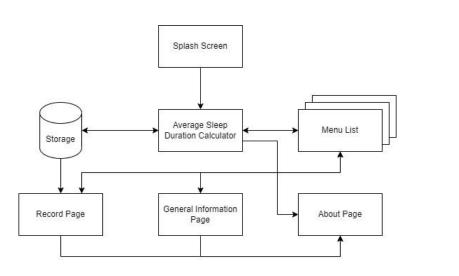
You are required to present your work according to the presentation session assigned to you. Failure to do so would cause you to be considered absent from taking the final presentation and zero mark will be given. The presentation shall be done online using Microsoft Teams and the video camera must be turned on at all times during the demonstration session. Failure to do the presentation will result in failure for the entire portion of the project.

SECTION A: APPLICATION REPORT (7 QUESTIONS, 30 MARKS) <u>Instruction</u>: Please complete the report.

Write a report based on the developed application by completing the following table.

1. App	plication name	ZzzTrack
2. App	plication	A mobile application used to track sleep hour patterns to
des	cription	promote overall well-being throughout the day. The user
		will also receive an indication of whether their average
		sleep duration for the week suggests them achieving
		sufficient rest or not.
3. Obj	jectives	1. To calculate average sleep duration by week.
		2. To store records of sleep hours and average sleep
		duration.
		3. To display indicator of sleep duration sufficiency.
		4. To display general information regarding sleep.
4. Tar	get user	18 years old and above (Adult)
5. List	t of application	1. Average sleep duration calculator – The user needs to
feat	tures with its	enter the hours of sleep daily. Then, the current
des	cription	calculated average sleep duration for the week will be
		displayed.
		2. Sleep duration sufficiency indicator—Based on the
		average sleep duration calculated, the user will receive
		the indicator whether the user is getting enough sleep or
		not according to the recommended hours of sleep for
		adult.
		3. General information – The user can view the tips on
		how to improve sleep quality and fix sleep schedule.

6. Draw a complete overall screens map of your application.



7. Sketch the UI design and wireframe based on the screens map.



Splash screen –
 Introductory screen of this application consists of the application's logo
 (ZzzTrack)



2. Calculator page –

The application bar placed at the top of each page (excluding About Page) consists of menu icon, title, and 'i' icon.

In the content, the first text box with 'Date' label will allow user to select date. The next text box requires user to enter the hours of sleep duration in hour

format. The save button used to trigger the storing process of both date and sleep duration entered by the user. After clicking the save button, the average sleep duration for the current week and the status for sleep duration sufficiency will be displayed below. 3. Menu – The clickable menu icon in the application bar provides user with a list of menu to direct to another pages as shown in the screen design. 4. About page – This page will show the information about the application and the developer. ut application description developer, version



5. Information page –

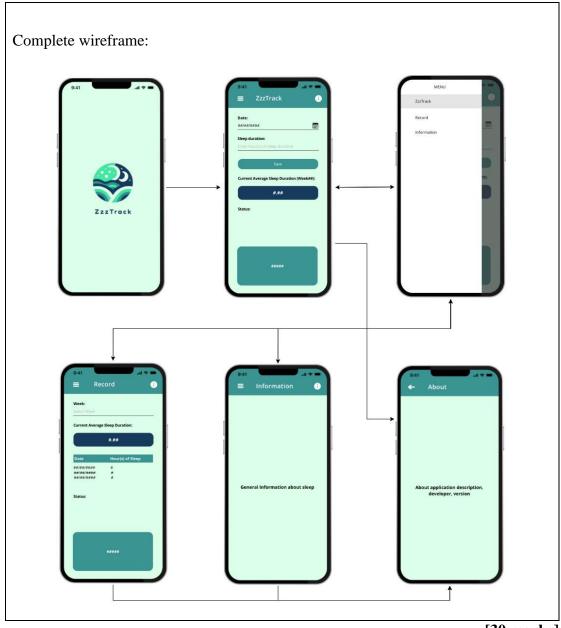
This page will show the tips on how to improve sleep quality and fix sleep schedule.



6. Record page –

The first element in this page's content is the dropdown menu which enable the user to select which week they want to view the record.

The average sleep duration, record's table, and status for sleep duration sufficiency for the week selected earlier will be retrieved from the database and displayed.



[30 marks]

SECTION B: APPLICATION DEMONSTRATION (1 QUESTION, 70 MARKS) <u>Instruction</u>: Please demonstrate the developed application.

Develop a mobile application based on the proposed idea in Milestone 1 (M1) and design idea in Milestone 2 (M2). Demonstrate your application to the lecturer and panel during the session assigned to you. You are required to have the whole project solution during the demonstration session. The demonstration **SHOULD NOT EXCEED** 30 minutes including the question-and-answer session. Failure to demonstrate your mobile application during the allocated time session will cause you to get zero for the demonstration marks and will affect the overall marks for the project evaluation.

[70 marks]

Table 1: Rubric for Report Assessment

SECTION A: REPORT						
	Criteria	0	0.5	1	N/A	Marks
1.	Application	None	Unsuitable name	Suitable name		
	Name		chosen for the app	chosen for the app		
	Criteria	0	1-2	3-4	5	Marks
2.	Application	None	Minimal or	Only brief	Detail description	
	description		inaccurate	description of the	of the application	
	-		statements to	application		
			describe the			
			application			
3.	Application	None	Minimal or	Sufficient	Sufficient	
	Objectives		inaccurate or	objectives but	objectives,	
	-		unachievable	inaccurately stated	accurately stated	
			objectives stated for	or not fully	and achievable	
			the application	achievable		
	Criteria	0	0.5	1	N/A	Marks
4.	Application	None	Stated the target	Well describe the		
	target users		users but without	target users		
			sufficient			
			description			
	Criteria	0	1-2	3-4	5	Marks
5.	Application	None	Minimal or not fully	Sufficient features	Sufficient features,	
	features		supporting	but some are	relevant, and	
			objectives or	irrelevant or	supporting	
			irrelevant features	supporting	objectives	
			for the application	objectives		
6.	Application	None	Minimal or not fully	Sufficient activities	Sufficient activities,	
	screens		supporting	and flows but some	relevant flows, and	
	map		objectives or	are irrelevant/	supporting	
			irrelevant activities	supporting	objectives with	
			and flow for the	objectives with or	storage included.	
			application with or	without storage.		
	C-:4	Λ	without storage.	4.7	0	Manla
7	Criteria	None	1-3 Minimal sketch or	4-7 Sufficient sketch	8	Marks
7.	Application	None			Sufficient activities,	
	Sketch and Wireframe		irrelevant elements for the application.	but some are irrelevant elements	relevant elements, and supporting	
	wireiraine		1 1		11	
			Poor navigation or	or supporting	objectives with	
			not/partially tally with the screens	objectives.	storage included. Acceptable	
				Acceptable	navigation or tally	
			map.	navigation or partially tally with	with the screens	
				the screens map		
				with minor error.	map with none or very minimal error.	
				Total Section A	very minimal cirol.	
				[30 Marks]		
				[30 Marks]		

Table 2: Rubric for Application Demonstration Assessment (Lecturer)

	SECTION B1: APPLICATION DEMONSTRATION (LECTURER)					
	Criteria	0	0.5	1	2	Marks
1.	Icon	None	Unsuitable icon	Suitable icon		
			chosen for the app	chosen for the app		
2.	screen		Included in the	Included in the		
			application with no	application with the		
			-	logo	application logo	
3.	About page	None		Partially describe	Completely	
				the application and	describe the	
				developer	application and	
					developer	
	Criteria	0	1-9	10-19	20	Marks
4.	Activities	None	Less than 50%	Less than 90%	Around 90-100%	
	completion		completion of	completion of	completion of	
			overall planned	overall planned	overall planned	
			activities.	activities.	activities.	
5.	Content –	None	Most information in	Most information in	All information is	
	Visual		the activity is	the activity is	accurate and was	
	Control		confusing or	relevant. Only parts	delivered	
			irrelevant. Some of	of the activities	effectively.	
			the activities do not	support the	Objectives	
			support the	objectives of the	achieved.	
			objectives of the	application.		
			application.			
	Cuitania		1 2	2 1	5	Manlea
	Criteria	0	1-2	3-4	_	Marks
6.	Application	None	Confusing	Acceptable	Clear and suitable	Marks
6.			Confusing navigation. Some of	Acceptable navigation. Follows	Clear and suitable navigation. Follows	Marks
6.	Application		Confusing navigation. Some of it follows the	Acceptable navigation. Follows the screens map,	Clear and suitable navigation. Follows the screens map,	WIAFKS
6.	Application		Confusing navigation. Some of it follows the screens map, and	Acceptable navigation. Follows	Clear and suitable navigation. Follows	Warks
	Application navigation	None	Confusing navigation. Some of it follows the screens map, and wireframe.	Acceptable navigation. Follows the screens map, and wireframe.	Clear and suitable navigation. Follows the screens map, and wireframe.	Marks
	Application navigation Application		Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout	Marks
	Application navigation	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with	Marks
	Application navigation Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and	Marks
	Application navigation Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user	Marks
7.	Application navigation Application layout	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance.	Marks
7.	Application navigation Application layout Design	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks	Marks
7.	Application navigation Application layout Design	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive,	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast,	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with	Marks
7. 8.	Application navigation Application layout Design Attractiven ess	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added.	Marks
7. 8.	Application navigation Application layout Design Attractiven ess Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both	Marks
7. 8.	Application navigation Application layout Design Attractiven ess Application of .NET	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal gestures or .NET	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient gestures or .NET	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both gestures and .NET	Marks
7. 8.	Application navigation Application layout Design Attractiven ess Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both	Marks

10. Storage	None	Poor storage type	Suitable storage	Suitable storage	
and data		and management or	type chosen but not	type chosen and	
binding		no data binding.	well organized.	logically organized.	
			Applies data	Applies data	
			binding.	binding.	
			Total Section B1 (Le	ecturer)	
			[70 Marks]		
			Average Section B1	(Lecturer)	
			Total Section B1 (Le	ecturer)/2	
			[35 Marks]		

Table 3: Rubric for Application Demonstration Assessment (Panel)

	SECTION B2: APPLICATION DEMONSTRATION (PANEL)					
	Criteria	0	0.5	1	2	Marks
1.	Icon	None	Unsuitable icon	Suitable icon		
			chosen for the app	chosen for the app		
2.	Splash	None		Included in the	Included in the	
	screen			application with no	application with the	
				logo	application logo	
3.	About page	None		Partially describe	Completely	
				the application and	describe the	
				developer	application and	
-	<u> </u>	0	1.0	10.10	developer	3.6
	Criteria	0	1-9	10-19	20	Marks
4.	Activities	None	Less than 50%	Less than 90%	Around 90-100%	
	completion		completion of	completion of	completion of	
			overall planned activities.	overall planned	overall planned activities.	
5.	Content –	None	Most information in	activities. Most information in	All information is	
٥.	Visual	None			accurate and was	
	Control		the activity is confusing or	the activity is relevant. Only parts	delivered	
	Control		irrelevant. Some of	of the activities	effectively.	
			the activities do not	support the	Objectives	
			support the	objectives of the	achieved.	
			objectives of the	application.	demeved.	
			application.	иррисанон.		
	Criteria	0	1-2	3-4	5	Marks
6.	Criteria Application	None None	1-2 Confusing	3-4 Acceptable	5 Clear and suitable	Marks
6.			Confusing navigation. Some of	_		Marks
6.	Application		Confusing	Acceptable	Clear and suitable	Marks
6.	Application		Confusing navigation. Some of it follows the screens map, and	Acceptable navigation. Follows	Clear and suitable navigation. Follows	Marks
	Application navigation	None	Confusing navigation. Some of it follows the screens map, and wireframe.	Acceptable navigation. Follows the screens map, and wireframe.	Clear and suitable navigation. Follows the screens map, and wireframe.	Marks
6. 7.	Application navigation Application		Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout	Marks
	Application navigation	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with	Marks
	Application navigation Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and	Marks
	Application navigation Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user	Marks
7.	Application navigation Application layout	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance.	Marks
7.	Application navigation Application layout Design	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks	Marks
7.	Application navigation Application layout Design	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive,	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast,	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images	Marks
7.	Application navigation Application layout Design Attractiven	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with	Marks
8.	Application navigation Application layout Design Attractiven ess	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read.	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added.	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added.	Marks
7.	Application navigation Application layout Design Attractiven ess Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both	Marks
7. 8.	Application navigation Application layout Design Attractiven ess Application of .NET	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal gestures or .NET	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient gestures or .NET	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both gestures and .NET	Marks
7.	Application navigation Application layout Design Attractiven ess Application	None	Confusing navigation. Some of it follows the screens map, and wireframe. Majority of the layout missing from the sketch. Layout designs are confusing. Majority activity design looks dull with full of texts. Lack of contrast between background and text colors made text hard to read. Applies minimal	Acceptable navigation. Follows the screens map, and wireframe. Some of the layout matched the sketch. Some layout design support user affordance. Part of the activity design looks attractive, acceptable contrast, and informative with some suitable images added. Applies sufficient	Clear and suitable navigation. Follows the screens map, and wireframe. Whole layout design is tally with the sketch and support user affordance. Whole activity design looks attractive, good color choices and informative with suitable images added. Applies both	Marks

10. Storage	None	Poor storage type	Suitable storage	Suitable storage	
and data		and management or	type chosen but not	type chosen and	
binding		no data binding.	well organized.	logically organized.	
			Applies data	Applies data	
			binding.	binding.	
			Total Section B2 (Pa	anel)	
			[70 Marks]		
			Average Section B2	(Panel)	
			Total Section B2 (Pa	anel)/2	
			[35 Marks]		

Table 4: Marks Allocation Summary (Section A + Section B1 + Section B2)

Marks Allocation Summary					
	Marks				
Section A: Report (Lecturer)					
[30 Marks]					
Section B1: Application Demonstration (Lecturer)					
[35 Marks]					
Section B2: Application Demonstration (Panel)					
[35 Marks]					
Total Marks					
[100 Marks]					

---End of Questions---