

ASSIGNMENT COVER PAGE



Programme		Course Co	de and Title		
Bachelor of Computer Science (Hons)		CET3013/N (Mobile Application Development)			
Bachelor of Software Engir	neering (Hons)				
Student's name / student'	s id	Lecturer's r	name		
CHAN SEOW FEN / 0207368 ONG YI WEN / 0207333 TAN SIN YEE / 0207146		Lai Kim Min			
Date issued	Submission Deadline		Indicative Weighting		
Week 8 – 30/10/2023	Week 12 – 27/11/2023		30%		
Assignment [2]	Trace MyKid Mobile Application	n			

This assessment assesses the following course learning outcomes

# as in Course Guide	UOWM KDU Penang University College Learning Outcome
CLO2	Explain cameras, sensors and locations in mobile devices
CLO3	Use graphics, animations and database in applications
# as in Course Guide	University of Lincoln Learning Outcome
CLO1	N/A
CLO2	
CLO3	
CLO4	

Student's declaration

I certify that the work	submitted for this	assignment is my	v own and	research sources	are fully	acknowledged.
			,			

than

Student's signature:

Tan Sin Yee

Submission Date:

27/11/23

Dates and Mechanisms for Assessment Submission and Feedback

Assignment 2

ORIGINALITY REPORT

7% **PUBLICATIONS** SIMILARITY INDEX **INTERNET SOURCES** STUDENT PAPERS **PRIMARY SOURCES** Matthew MacDonald. "Beginning ASP.NET 4.5 2% in VB", Springer Science and Business Media LLC, 2012 Publication Submitted to University of Greenwich 1 % Student Paper Submitted to University of Hyderabad, Hyderabad Student Paper Submitted to Kensington College of Business 1 % Student Paper parlinfo.aph.gov.au 5 Internet Source www.nctm.org **1** % 6 Internet Source www.cdc.gov % Internet Source

8 Karwowski, . "Systemic-Structural Theory of Activity and Design", A Systemic-Structural

1 %

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1.0 Screenshots of Application



Figure 1.1 Welcome Screen (With Animation)

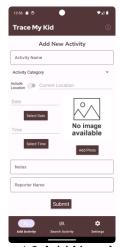


Figure 1.2 Add New Activity



Figure 1.3 Seach Activity



Figure 1.4 Filter Activity (Search Activity)



Figure 1.5 Settings

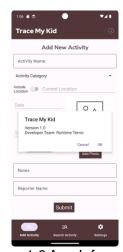


Figure 1.6 App Information

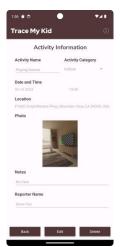


Figure 1.7 Activity Information (Search Activity)



Figure 1.8 Edit Activity Information (Search Activity)



Figure 1.9 Camera



Figure 1.10 Confirm Activity Details (Add Activity)



Figure 1.11 Clear All Data (Settings)

2.0 Test Cases

2.1 Add new activity

Figure 2.1, Figure 2.2, Figure 2.3, show the process of adding new activity.

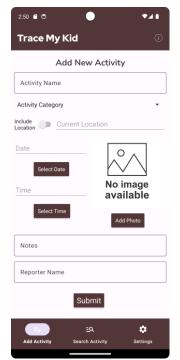


Figure 2.1 Add New Activity
Fragment

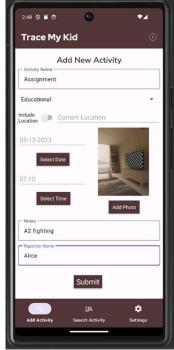


Figure 2.2 Input Activity Details

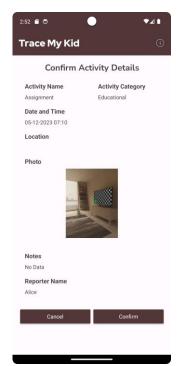


Figure 2.3 Confirm Activity Details

Figure 2.4, Figure 2.5 shows that the new activity is successfully added into the database containing the details.



Figure 2.4 Add New Activity
Fragment

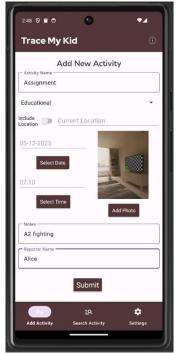


Figure 2.5 Activity Information

2.2 Search activity

Figure 2.6 shows the feature of searching activity and Figure 2.7 shows after typing "Pla", it filters out activity that match to the keyword. Figure 2.8 shows that it also could be applied to reporter name.



Figure 2.6 Search Feature



Figure 2.7 Filter According to Activity Name



Figure 2.8 Filter
According to Reporter
Name

2.3 Edit activity

Figure 2.9 shows the user interface for editing the activity. Figure 2.10 shows the activity information before editing and Figure 2.11 shows the activity information after editing.

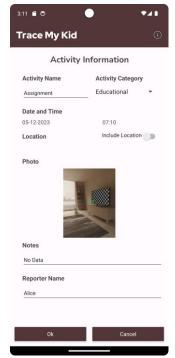


Figure 2.9 Edit Activity

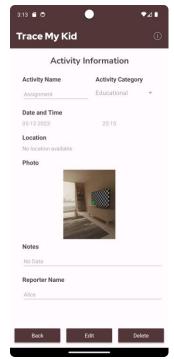


Figure 2.10 Before Edit



Figure 2.11 After Edit

2.4 Delete Activity

Figure 2.12 shows the option to delete activity. Figure 2.13 shows the list of activity before deleting Assignment activity, Figure 2.14 shows the difference after deleting Assignment activity.



Figure 2.12 Delete Activity



Figure 2.13 Before Delete



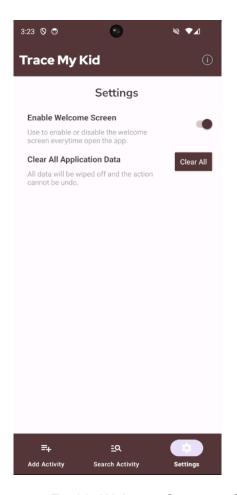
Figure 2.14 After Edit

2.5 Enable Welcome Screen

Runtime Terror

Version 1.0





Assignment 2

Figure 2.15 Enable Welcome Screen

Figure 2.16 Enable Welcome Screen at Settings Page

2.6 Disable Welcome Screen





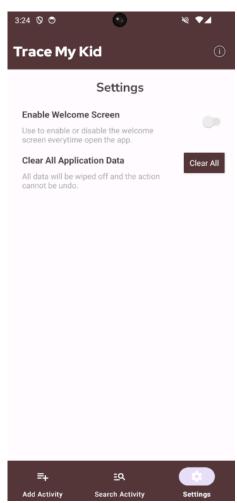


Figure 2.18 Disable Welcome Screen at Settings Page

2.7 Delete all data

Figure 2.19 shows the setting for clearing all data. Figure 2.20 shows the confirmation dialog for clearing all data. Figure 2.21 and Figure 2.22 show the difference between the list of activities before and after clearing all data.

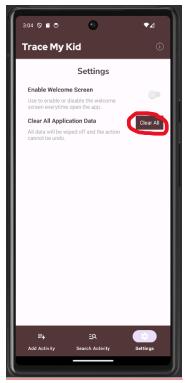


Figure 2.19 Settings

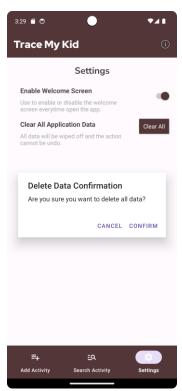


Figure 2.20 Delete All Confirmation







Figure 2.22 After Delete All

2.8 Input validation

Figure 2.23 and Figure 2.24 show the input error of activity name.

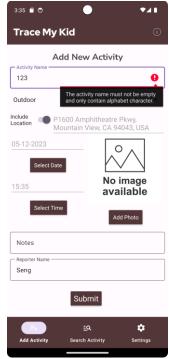


Figure 2.23 Contain Non-Letter

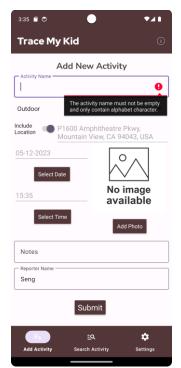


Figure 2.24 Empty Activity
Name

Figure 2.25 shows the error if user did not pick activity category from the spinner.

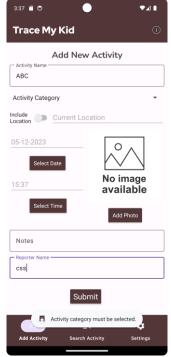


Figure 2.25 User Did Not Pick Activity Category

Figure 2.26 shows the error if user did not pick the date.

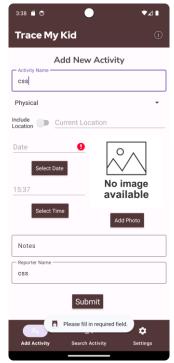


Figure 2.26 User Did Not Pick the Date

Figure 2.27 shows the error if user did not pick the time.

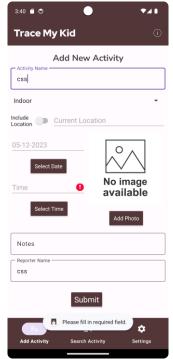
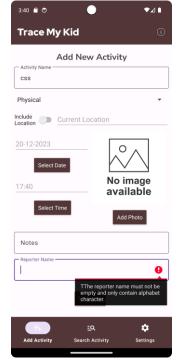


Figure 2.27 User Did Not Pick the Time

Figure 2.28, Figure 2.29 shows the error if user did not enter valid reporter name such as empty or contain non-letter.





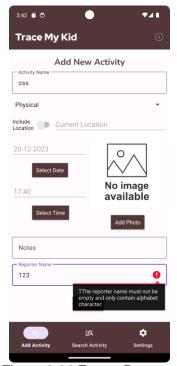


Figure 2.29 Empty Reporter Name

3.0 Weaknesses and Strengths

3.1 Weaknesses

Due to time constraints and the complexity of the code, certain features, such as the tablet view dual pane could not be included by following the methods provided by the lecturer. The code is not perfectly structured due to a lack of understanding of some enhanced features, such as fragment navigation. Moreover, there are several features that could be further improved, such as the addition functionality of search activity, which can use filters to filter the result. Unfortunately, these enhancements were not implemented due to time limitations.

Another weakness is that after we click submit, there is a preview page before confirmation. When we click the cancel button, all the information we entered before disappears, and the user has no way to select the edited part.

3.2 Strengths

Firstly, the first strength is the visual appeal of good design. To ensure that the application has a user-friendly interface, all aspects of the application are designed consistently, and the user interface of the application is also very simple, which allows users to clearly understand the ways to use the application and have a good experience, this will also increase the affection of the user. In addition, followed by the theme of colour matching and font style, the soft colour interface design and moderately sized fonts enhance the user experience without making users feel complicated or dazzling. All the headers are also in bold fonts, which will attract users and serve

as a reminder. Additionally, the animation on the welcome page is very cute and friendly and fits the theme of the app.

Secondly, the second strength is the extra features. In order to add flexibility and user convenience, this application has some accessibility features. The first function is the "clear all" function. This function can directly clear all those history records that are contained on the search activity page, but users must take note that after the user clicks the clear all button, the system cannot undo the procedure. It is found that this clear-all function is permanently wiped off.





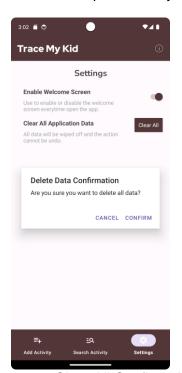


Figure 3.2 Clear All Confirmation

The second feature is the photo captured can be saved. Some of the users will capture a photo and submit it together with other information. The photo captured will be saved in the activity history and the photo can be viewed on every slot of the history. The photo can also be viewed if the user clicks on the history activity.



Figure 3.3 Photo saved at activity

The third feature is the user setting for the preference enable welcome screen. If users feel that the welcome page affects their user experience, they can immediately click the "Skip

welcome screen next time" checkbox at the bottom of the welcome page. After ticking this checkbox, the system will receive this instruction and the welcome page will not be displayed every time the user opens the application. If you want to reactivate the welcome page, the user can also go to the settings page and click the toggle button to re-enable the welcome page.

Version 1.0





Figure 3.4 Check box for the welcome page

Thirdly, the third strength is the validation for the user to make sure that all of the required fields are. The appropriate validation is implemented at the activity name, activity category, date and time, and the reporter's name. The parts that did not implement the validation are considered optional fields, such as location, photos, and notes. The validation will also appear with a red exclamation mark icon to remind the user to insert the information in the boxes. Moreover, the red exclamation mark icon will also provide some reminder wording for the user to view after the user clicks on the icon.

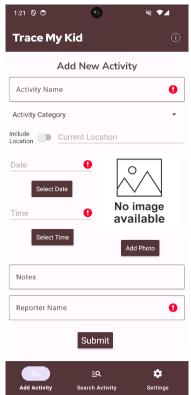


Figure 3.5 Validation for the required fields

The last strength is the preview mode which allows the user to view the information entered before adding the activity to the database. After the user enters all of the information needed, the user needs to click the submit button to allow the system to save the activity. After that, the application will immediately general a confirm activity details page to allow the user to check the information they entered. The page also provided a "cancel" and "confirm" button for the user to choose. If the user presses the cancel button, the application will jump back to the previous page to allow the user to enter the information again. If the user presses the confirm button, the activity will be submitted to the database to store all the information. The user can go to the search activity to view the history of the activity.

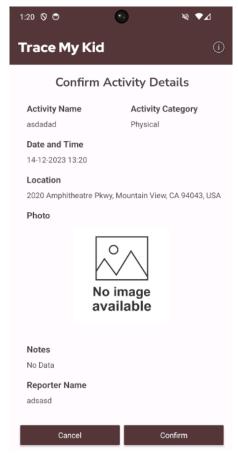


Figure 3.6 Preview mode before submission

4.0 Appendix

4.1 System Functionalities Screencast Recording URL

https://uowmalaysia-my.sharepoint.com/:v:/g/personal/0207368_student_uow_edu_my/Eb_nG-XHsfNAt5raR7iFFW8BL-

HARNtG3zcsJZBg72mzCg?e=0TVFka&nav=eyJyZWZlcnJhbEluZm8iOnsicmVmZXJyYWxBcHAiOiJTdHJIYW1XZWJBcHAiLCJyZWZlcnJhbFZpZXciOiJTaGFyZURpYWxvZy1MaW5rliwicmVmZXJyYWxBcHBQbGF0Zm9ybSl6lldlYilsInJlZmVycmFsTW9kZSl6lnZpZXcifX0%3D

Group members work contribution form

In percentage, please indicate the work contribution of each member. This should be agreed by all group members. The total of all members work must add to 100%

You must **submit this form in your final report.** Put your initials in the signature columns. This copy must be signed by all members.

Group/Team Name: Runtime Terror (Group 6)

Team member name	Student ID	Individual overall work contribution (%)	Signature
Student:			1.000
CHAN SEOW FEN	0207368	40 %	than
Student:			4.
ONG YI WEN	0207333	30 %	My
Student:	0007440		
TAN SIN YEE	0207146	30 %	Tan Sin Yee
		Total 100%	

CET3013/MOBILE APPLICATION DEVELOPMENT

MARKING RUBRIC - ASSIGNMENT 2

Building App with Database and Sensors (30%)

Section 1 (40%)

LEARNING OUTCOME			SCALE						
	MARKING CRITERIA	Fail 3 rd Class 2 nd Lower Class 2 nd Upper Class 1 st Class					MARKS/COMMENTS		
		(0-49)	(50-59)	(60-69)	(70-79)	(80-100)	100%	Weightage	Actual Marks
CLO 2	Additional Features (Location, Map & Camera) (20%)	Little or no attempt to implement the feature correctly	A partial implementation of the feature, but some aspects are incorrect and not particularly well coded. May give rise to runtime errors.	A complete implementation of the features with some flaws and not in exceptional way.	A mostly complete implementation of the feature which works correctly but with minor flaws	An excellent implementation of all the feature and clearly coded		0.2	
020 2	Overall interface (Portrait and landscape mode and UI Navigation) (20%)	Very poor UI produced (either portrait or landscape are missing). No application of UI interface	A partial implementation of the UI but did not apply the UI navigation. The overall UI is not attractive	A complete implementation of the AI but with some flaws and not in an attractive way.	A good UI produced with applying the UI navigation with Jetpack library. Use appropriate bottom navigation, drawer and toolbar with menu items.	An excellent UI implementation with using good UI navigation such as bottom navigation, drawer and toolbar with menu items.		0.2	
		<u>'</u>				Total (40%)			

				Section 2 (60%)						
		SCALE								
LEARNING OUTCOME	MARKING CRITERIA	Fail 3 rd Class		2 nd Lower Class	2 nd Upper Class	1 st Class	MARKS/COMMENTS			
		(0-49)	(50-59)	(60-69)	(70-79)	(80-100)	100%	Weightage	Actual Marks	
CLO3	Database Integration (Insertion, Deletion, Editing, Searching) (30%)	Little or no attempt to implement the feature correctly	A partial implementation of the feature, but some aspects are incorrect and not particularly well coded. May give rise to run-time errors.	A complete implementation of the features with some flaws and not in exceptional way.	A mostly complete implementation of the feature which works correctly but with minor flaws	An excellent implementation of all the feature and clearly coded		0.3		
	Fragment Application (Using Fragment to produce the master & details format). (30%)	Little or no attempt to implement the feature correctly. No master and details view. No animation provided.	A partial implementation of the feature, but some aspects are incorrect and not particularly well coded. May give rise to run-time errors.	A complete implementation of the features with some flaws and not in exceptional way.	A mostly complete implementation of the feature which works correctly but with minor flaws.	An excellent implementation of all the feature and clearly coded. The master and details fragment are working perfectly.		0.3		
	,	,				Total (60%)				
						Overall Score (100%)				