

## **UoW Malaysia KDU Penang University College Research Ethics Registration and Approval Form**

Ethical category:		
Red		
Blue		
Green	/	

## Section One: Registration [To be completed by student]

Title of research project/dissertation	Artificial intelligence based real time sign language to speech translation mobile application		
Researcher's name	LAM E SHUEN		
Programme of study	UCSE		
Academic Year	YEAR 3		
Module code	CCP3012		
Supervisor's name	TAN PHIT HUAN		
Second marker's name	DR. ANG SAU LOONG		
Start Date of Project	14/09/2020		
Brief outline of research topic:			
The aim of this research topic is to develop a software that translates hand gestures viewed by a smart phone's camera into correct translations of the English language and output it as speech.			
Short description of proposed research methods including identification of participants:			
The proposed research method is using Prototyping Model methodology which will create an incomplete version of the product, analyse it, review it, and then rinse and repeat creating another prototype until a complete product is created.			
Participants included are the developer of the proposed product.			

Effective from: 29 May 2017 Revision: 00



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Ethical considerations in the research project		NO
1. Does your research involve an external organisation or partner?		/
2. Does your research involve human participants?		$\square$
3. If yes to Q.2, will you inform the participants about the research?		Z
4. Will you obtain their consent using the standard consent form?		
5. Is any deception involved?		7
6. Do any participants constitute a 'vulnerable group'?		
7. Will the research involve the following information?		
Commercially sensitive		/
Personally sensitive		/
Politically sensitive		/
Legally sensitive		
8. Is the research likely to have any significant environmental impacts?		/
9. Are there likely to be any risks for the participants in your research?		/
10. Are there likely to be any risks for you in conducting the research?		$\Box$
11. If yes [to 5, 6, 7, 8, 9 or 10 above] have you identified steps to address the issues and mitigate any risks to participants, yourself or the environment?		
Statement to explain how any issues identified above will be addressed and what steps will be ta such risks or adverse impacts	ken to mi	itigate
Ethical category of research project [Please tick as appropriate]		
Red vulnerable participants; human tissue; sensitive data; risks to participa etc.	nts & rese	archers
Blue human participants requiring informed consent; commercially sensitive	e informat	ion etc.
Green / no participants involved; secondary data only; no sensitive data		



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I have read the University College Ethics Policy and Procedures and confirm that the answers I have given above are correct. Where issues arise under items 5, 6, 7, 8, 9 or 10 [above] I have described in writing how I intend to approach these issues in the research.					
Researcher's signature: <u>LAM E SHUEN</u> Date: <u>10/11/2020</u>					
Section 1 Ethics Registration to be submitted to Principal Supervisor or Module Tutor and allocated to a reviewer as follows:  Green risk - may be approved by Supervisor  Blue risk - to be submitted for approval by one independent reviewer (second marker)  Red risk - to be submitted for approval by two independent members of Research Committee					
Section Two: Approval					
Supervisor/Module Tutor's name confirming ethical risk status	Tan Phit Huan				
Ethical approval [Please tick as appropriate]					
Green - Ethical approval is given without condition	ons (supervisor may approve).	/			
Blue – (to be approved by one independent revie conditions:	wer) Ethical approval is given with the following				
* Information to be provided to all participants.  * Participant consent to be obtained in accordance with the University College procedures.  * Data to be stored and destroyed securely in accordance with University College guidelines.  * Adherence to Data Protection Act.  * Anonymity to be offered to participants.  * Commercial confidentiality to be provided to organisations(s).  * Software vulnerabilities, exploits, hazardous software etc. not to be published without prior 'responsible disclosure' to the affected supplier.  * Other (please state):					
Red - Project is referred to Research Committee	for approval by two independent reviewers.				
Name & role of reviewer 1: Tan Phit Huan  Signature:  Date: 16 Nov 2020					
Name & role of reviewer 2:					
Signature:					
Date:					
Outcome of Review:					