Secondary 2 Chapter 1 Microsoft Computer Vision Assessment Task

Name:

Class: Class Number:

A. About the Task

You are required to design a Computer Vision App and write a descriptive paragraph with the aid of the image description generated by the app.

B. Objectives

By completing the task, the students will be able to

- 1. get familiar with the basic features and operations of MS Power Apps.
- 2. use common functions provided on Power Apps to build a Computer Vision App.
- 3. write a descriptive paragraph with the aid of the image description generated by the app.

C. Duration

2 cycles of Computer Literacy and English lessons.

D. Procedure

- 1. Download the word file called "Chapter01_Assessment_Task_Eng.docx" from the eClass system.
- 2. Finish Tasks 1-2 (Compulsory).
- 3. Finish **Tasks 3-5** (Optional).

E. Method of Submission

After completing Tasks 1 and 2, send the files to the teacher via the eClass system.

F. Grading Criteria

- 1. All students are required to complete Tasks 1 and 2.
- 2. Students who complete Tasks 3 and 4 can achieve a higher score.
- 3. High flyers are highly recommended to complete all the tasks to achieve the highest score.

Task 1: Build Your First Computer Vision App (Compulsory)

- 1. Refer to the note on Activity 1, build a Computer Vision App using Microsoft Power Apps.
- 2. Save and preview your app.
- 3. Save as (download) your project to '<your class + class number>.msapp' for further amendments.
- 4. Send the files to the teacher via the eClass system.

Task 2: Publish the App and run it on a cell phone/tablet (Compulsory)

- 1. Refer to the note on Activity 2, open your App on Power Apps Home.
- 2. Save and Publish.
- 3. Install Power Apps, log in and run the app on a cell phone/tablet.
- 4. Take a photo with your App. Criteria: Confidence Score >80
- 5. Paste the photo with a description and keywords to the following table.

	AI Computer Vision		
	a person sitting on a bench 87.42%		
	Key Words:	person	
Change Picture		building	
		sitting	
		bench	
R 1///		man	
	SAN	ab e	

Task 3: AI interpretation is not your expectation (Optional)

- 1. Refer to the note on Activity 3, open your App on Power Apps Home.
- 2. Save and publish your app.
- 3. Install Power Apps, log in and run the app on a cell phone/tablet.
- 4. Take a photo with your App. Criteria: Confidence Score <70
- 5. Paste the photo with a description and keywords to the following table.

	Al Computer Vision a young boy cutting a cake 26.15%	
a yo		
	Key Words:	person
Change Picture		indoor
		child
		boy
		mmple
A Contraction	SA	cake

6. Write your comments for the photo with low confidence score descriptions in the following table.

Hint: https://brainberry.ua/newsroom/blog/computer-vision-technology-common-mistakes

Task 4: CL and English Cross-curricular Project: Computer Vision x Descriptive Writing (Optional)

- 1. Open your App on Power Apps Home.
- 2. Refer to the note on Activity 4, add a text input box to the app.
- 3. Save and publish your app.
- 4. Login to Mobile App and take a photo for interpretation.
- 5. Write a paragraph describing the image in the text input box of the app.
- 6. Capture your screen and paste it to the following table.

	AI Computer Vision	
	key Word	person
		building
Change Picture	An educator is sitting on a bench, Indeed, innovation is not a simple alone. Innovation requires collab creation.	, trying to come up with an innovative idea. e task that can be completed by one man oration, ideation, implementation and value
	A.	
SA SA		

Task 5:CL and English Cross-curricular Project: Computer Vision x Descriptive Writing with email
function (Optional)

- 1. Open your App on Power Apps Home.
- 2. Copy the App with another name, eg: AI_Vision_Email(2A01).
- 3. Refer to the note on Activity 5, design an email box for the app.
- 4. Save and publish your app.
- 5. Login to Mobile App and take a photo for interpretation.
- 6. Write a paragraph describing the image in an email box of the app and send an email to your email address for further writing.
- 7. Capture your screen and paste it to the following table.

		Al Computer Vision a group of people standing in front of a crowd posing for the camera 95.05%		
P 教育の正確 Education T D		Key Words:	person building	
	Descriptive Writing: To: Kc_lhy@kings.edu.hk			
	Subject:	Group photo		
	Body:	Mr Lee Led the students lion dance team to celebrate the establishment of first EDB volunteer team with the witness of SED, PSED and other seniors of EDB		
SAME			Send Email	