AutoPhotoCreator Plan .V1

1. Purpose of this program

In January, TA of the school will receive an excel list, showing those good characters which was found on each student (440 students).

Each of the student will be given three good character named as 'A' – 'Z', representing the 26 kinds of good character as the following form.

美德	勇氣	仁愛	智慧	自律	正義	超越
品 格 優 勢	A 熱忱	E 愛與被愛	H 創造力	M 自我控制	R 領導才能	U 幽默感
	B 毅力	F 社交智慧	J 好奇心	N 謹慎	S 團隊精神	W 對美欣賞
	C 勇敢	G 仁慈	K 愛學習	O 謙虛	T 公平公正	X 心靈信仰
	D 誠實		L 洞察力	P 寬恕		Y 感恩
				Q 判斷力		Z 希望

The job of TA is to create photos according to the list given by teachers.

Picture 1. Sample of the photo to be create

Each of the photo should be merged by the following elements:

1. Gender – determine the picture dressed in boys / girls uniform
2. Good Characters – determine the gems to be shown
3. Name and Class – the program should be able to add the name and class of the certain student by auto.

Picture 2. The excel list given by teachers

學號	中文姓名	性別	中文亮點	英文亮點	數學亮點		亮點的英文字母代表	
XX小學
2022至2023年度 學生名單

學號	中文姓名	性別	中文亮點	英文亮點	數學亮點		亮點的英文字母代表	
1	陳嘉淇	F					A熱忱	
2	陳敏妮	F					B毅力	
3	陳思情	F					C勇敢	
4	陳子琪	F					D誠實	
5	周兆熹	M					E愛與被愛	
6	樊紀彤	F					F社交智慧	
7	何俊熙	M					G仁慈	
8	何宥希	F					H創造力	
9	洪晞晴	F					J好奇心	
10	葉翔皓	M					K愛學習	
11	姜卓楠	M					L洞察力	
12	姜子晴	F					M自我控制	
13	郭泓希	F					N謹慎	
14	李卓恆	M					O謙虛	
15	李曉嵐	F					P寬恕	
16	李欣晴	F					Q判斷力	
17	梁凱婷	F					R領導才能	
18	梁子俊	M					S團隊精神	
19	李梓然	M					T公平公正	
20	羅心瑜	F					U幽默感	
21	麥旨健	M					W對美欣賞	
22	吳學晴	F					X心靈信仰	
23	蘇寬	M					Y感恩	
24	譚偉聰	M					Z希望	
25	鄧倍津	M						
26	徐家樂	M						
27	黃柏蒨	F						
28	黃卓誠	M						
29	黃志賢	M						
30	黃子維	M						
31	姚柏廸	M						
32								
33								
34								
35								

班主任：

班別： 6A

女 15

男 16

請各科任老師在1月5日前完成本表並交柯跟進

2. The Working flow of the program

The program should conduct by three class: -

- Excel Reader - Reading the certain cells of an excel file to learn which picture to be merge.
- PowerPoint Photos Creator - The photo merging function, which also save the new photos in a PPT format.
- The main access of the program.

Firstly, the main access will check if there are an excel file, in Version 1.0, the program is not going to check if the excel file is in a correct form of not.

If the excel file exist, the main access will create a PPT file for later use. Then it will call the Excel Reader Class to read the excel, and return values of 'Gender', 'Name and Class', 'Character 1', 'Character 2', 'Character 3', if the 'name' cell is null in the excel, excel reader will return a 'END' value to main access and close the program.

After the Excel Reader finished its function, main access will call the PowerPoint Photos Creator Class. In this class, it will create a new slide in the PPT file and get the values return from the Excel Reader. Then loading the certain PNG file in the resource folder and merged them to the new PPT slide and save.

After that, the main access will continue or end the processing (if the Excel Reader return a 'END' value).

Check if
the excel exist

Create a
PPT file to save
All of the photos

Read the row
And return values

Main Access → existed → **Main Access** → **Excel Reader Class** ← Loop Continue ← **Main Access**

success

Not Found

Send values of elements
Which needed
to be merged

Create
new slide
In PPT file

Merging
The photo
By values

Save the new PPT

Main Access → **PPT Photos Creator Class** → **PPT Photos Creator Class**

Reader return
null values

End Processing

End Program and Log
"Excel file not found"