Build GUI Based Python Standalone Projects

Fall 2021 course project

(10-15 marks)

It is required for each group (one or 2 students) to search for a python based application that does a useful task. Most probably the python codes are scripts that run using command line instructions. It is required to convert the python script and its dependencies into a GUI stand alone **.EXE** program that can run on any PC computer (Win7 or later) without the need to install python or install any packages. It is not required to have experience in Python but general knowledge is a plus. There are tons of video tutorials on the internet that will help you to do the required task.

1- Search for project idea
   You may check https://pypi.org/ or https://awesomeopensource.com/projects/ or any other similar open source sites and search for project ideas that sounds and you feel useful. Examples are photo colorization, speech recognition, YouTube video translation, PDF file translation, Video closed caption generator, YouTube video playlist downloader,…..
2- A Form will be provided for submitting the names and IDs of each group as well as the project title and the Google drive link for the final submission. The application proposal should be uploaded to the Google drive for approval. Deadline for submitting the idea 31 October 2021

https://forms.office.com/r/a0AN7bMVkA

3- Upon approval, each group can start download the code and its packages and try to run it to test its functionality.
4- If works OK, then take the files to **TKINTER** python package which can convert the python files into a standalone **.EXE** file that can run on any windows based PC without the need to install python.
5- When everything is OK, you may prepare a video presentation to show the application and steps of implementation.
6- Finally upload the following materials to the Google Drive:
   a) Proposal of the project **b)** Source files **c)** TKinter project
   d) Standalone .EXE file application **e)** Video presentation with voice over for running the python script, generating the executable version and running the final version.

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