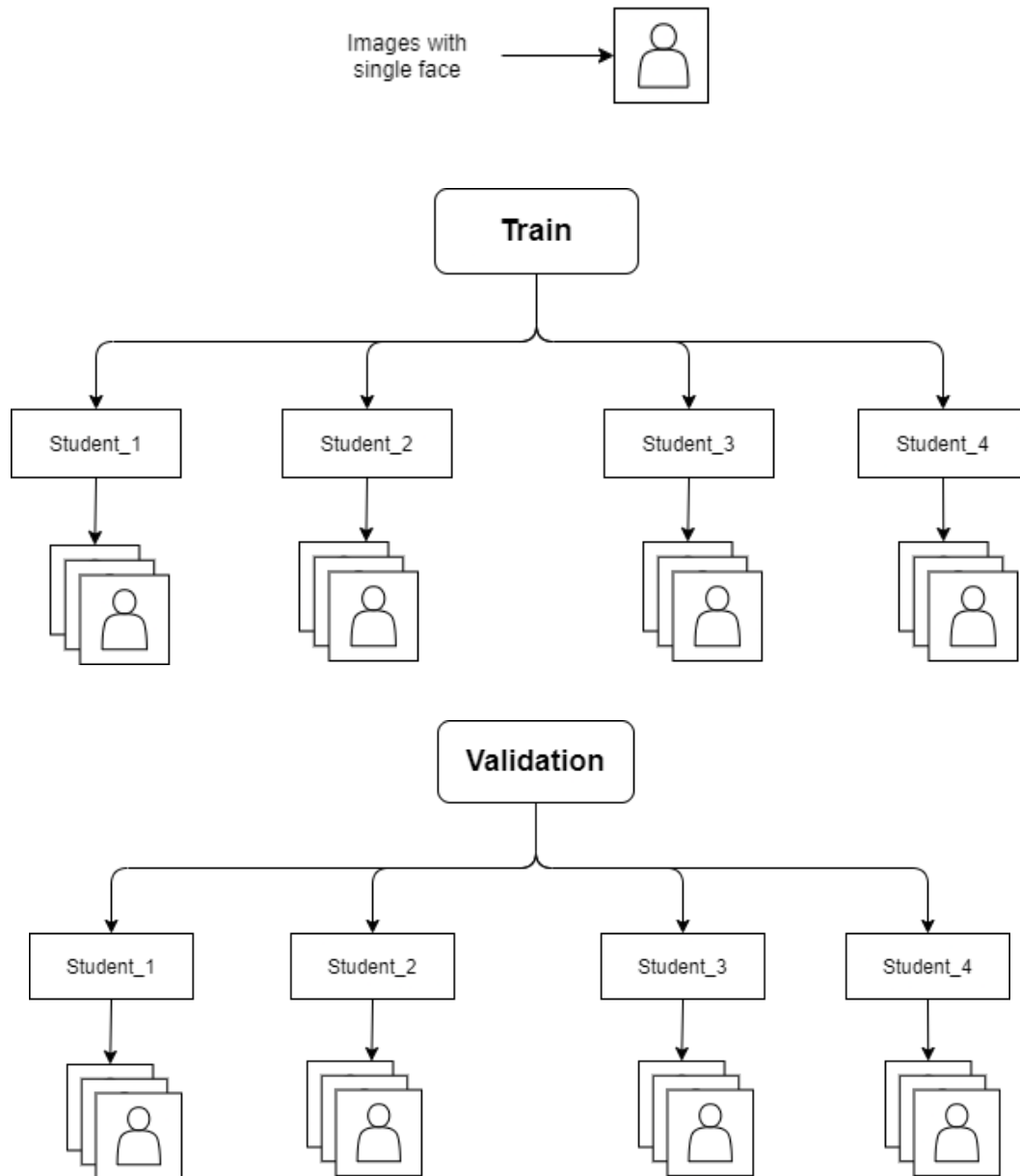Making a model :

Training and Validation folder structure :
For training, we recommend having at least 15 images per person.
For validation, we recommend having at least 10 images per person.

Images with
single face

Train

Student_1   Student_2   Student_3   Student_4

Validation

Student_1   Student_2   Student_3   Student_4

Do not have any extra unnecessary folders or images in the Train or Validation folder.
Student_1, Student_2, etc. are folders containing that respective students' images.
These names will be used to label the faces in the future, so name the folder carefully.
Keep the names unique.
Both train and validation folder must have the same number and names of subfolders.

Test Model :

Image :
Select model : Select the appropriate model from the dropdown.

Select image file : Navigate to the image you want to test, single click on the image and click 'Open'. *NOTE* : By default the target file format is set to 'Jpg images' at the bottom right on top of the 'Open' button. If your image is a png click on the dropdown and select 'Png images'.

Select directory where result should be pasted : Select any directory you want where the resulting folder should be pasted.

Finally, click 'Test' and wait for a while to generate the corresponding results. The system will notify when the result is generated.

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Video :
Select model : Select the appropriate model from the dropdown.

Select video file : Navigate to the video you want to test, single click on the video and click 'Open'. *NOTE* : By default the target file format is set to 'mp4 format' at the bottom right on top of the 'Open' button. If your video is in 'mkv' or 'avi' format click on the dropdown and select 'mkv format' or 'avi format'.

Select directory where result should be pasted : Select any directory you want where the resulting folder should be pasted.

Number of images from video : Enter a number to indicate how many frames should be extracted from the video selected. These frames are uniformly extracted from the video.

Attendance threshold : This number must always be smaller than the 'Number of images from video' value. It indicates the number of frames in which a person must be recognised to get attendance. For example, if 10 frames are extracted and the threshold is set at 8, then a person must be recognised in at least 8 images out of the 10 frames to get attendance.

Finally, click 'Test' and wait for a while to generate the corresponding results. The system will notify when the result is generated.

The model file and other metadata are stored in the home directory i.e. 'C:\Users\Admin\Smart_attendance_system'

If you wish to delete the GUI, be sure to delete the above mentioned folder too.

If trying to locate the 'Smart Attendance System.exe' in the 'Smart Attendance System' folder is annoying, right-click on the exe and click on 'Create shortcut'. Move the shortcut file outside the folder. Clicking on the shortcut file will work the same as clicking on the exe file.
If you move the folder to some other location, delete the shortcut and repeat the process to generate a new shortcut file.