

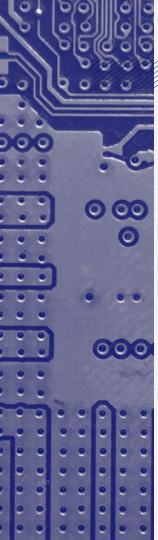




Computer Vision - 4th Computer & Systems (FEHU)
Supervisor- Dr.Motasem Elshourbagy



Smart Face Identifier & Styler



Our Team-



Noor El Deen Magdy



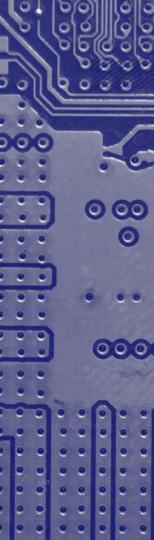
Ali Fathy



Hady Mohamed



Rania Mostafa



O1.Project
Environment

Q4.People Identifier

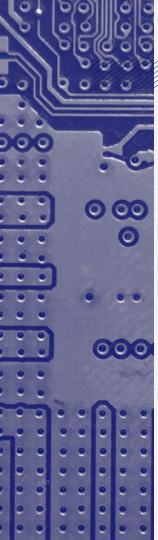
O2. Project Idea

05. Image Segmentation

03.Face
Detection

06.

Screen Painter



07.

Style Transfer

08.

Capture and save output.

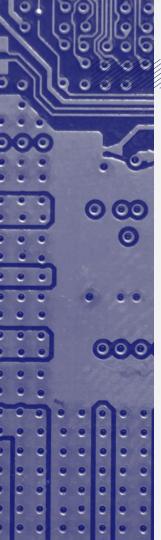
09. Use Case

Diagram

Project Idea and Environment-

Project Environment

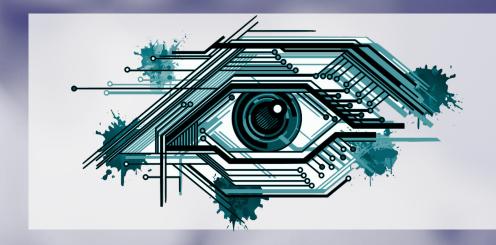


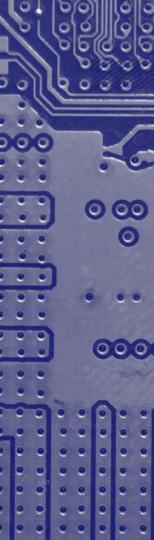


The Project environment can be summarized into 3 parts:		
1- Main programming language.	Project as whole was written in Python.	
2- Logic.	Project logic is mainly based on OpenCV library in Python.	
3- GUI.	Project GUI was made with Kivy framework in Python.	

Project Idea and Environment-

Project Idea



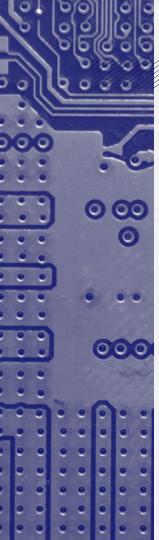


Project Idea and Environment

The Project mainly can do:

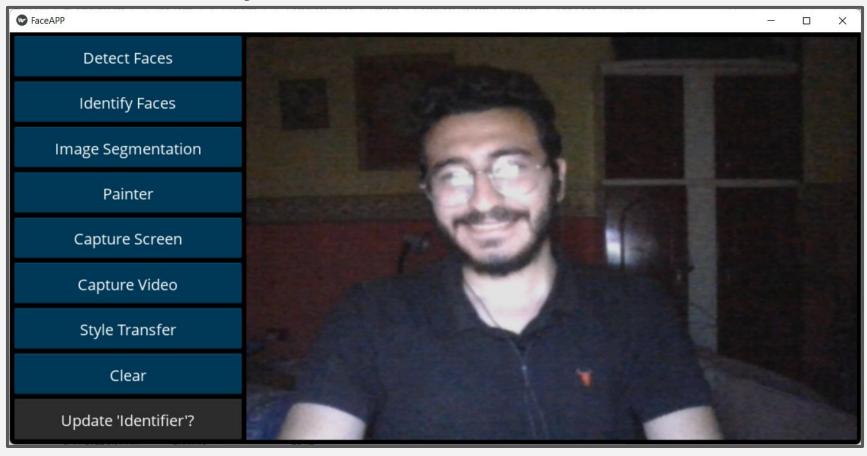
O- Open Camera to Capture Stream and Overall Idea.	(Once the app is launched)	V
1- Detect Human Face(s).	(Function)	V
2- Identify People.	(Uses Faces Folder)	V
3- Update Faces.	(Update Faces Folder)	V
4- Apply Image Edge Detection and Segmentation filter.	(Function)	V
5- Paint on Screen.	(Function)	V



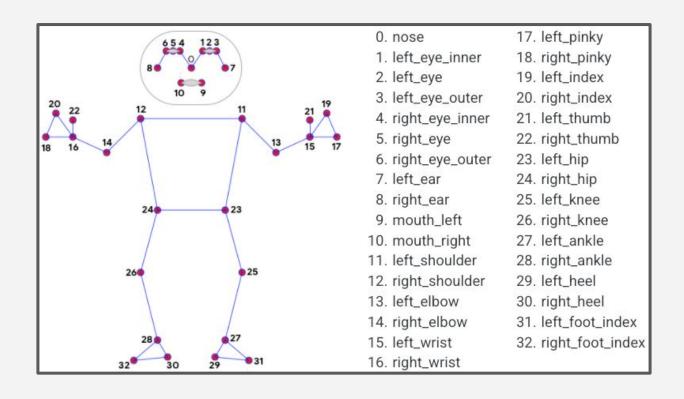


The Project mainly can do:				
6- Adding Style Transfer.	(Function)	V		
7- Capture and Save Camera Output.	(To Gallery Folder)	V		

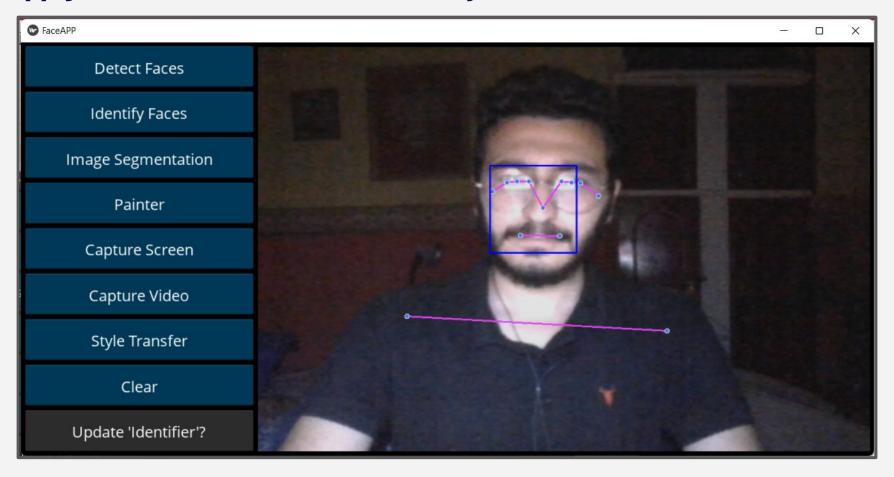
Start Screen // Project Idea



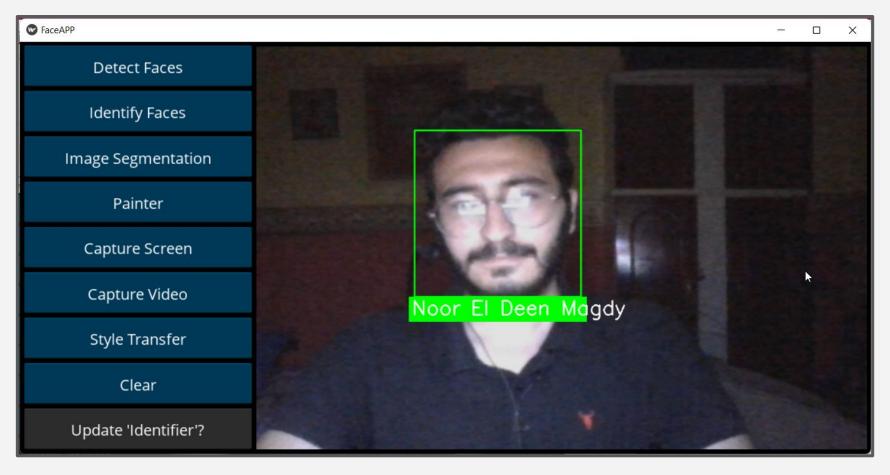
Apply "Detect Faces" Screen // Project Idea



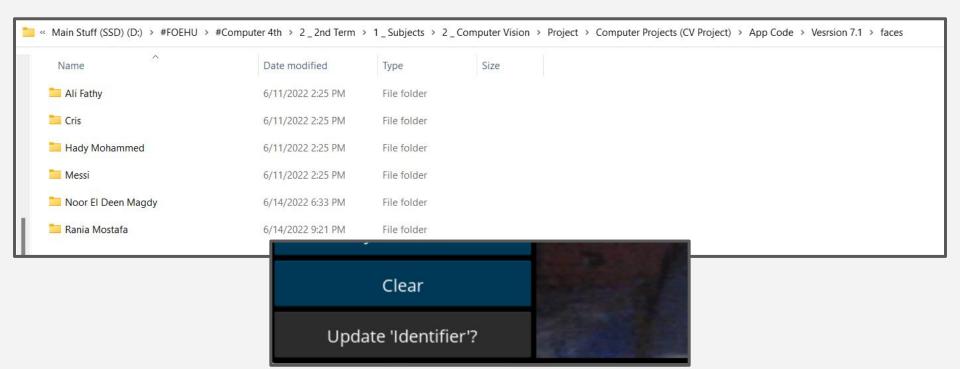
Apply "Detect Faces" Screen // Project Idea



Apply "Identify Faces" Screen // Project Idea



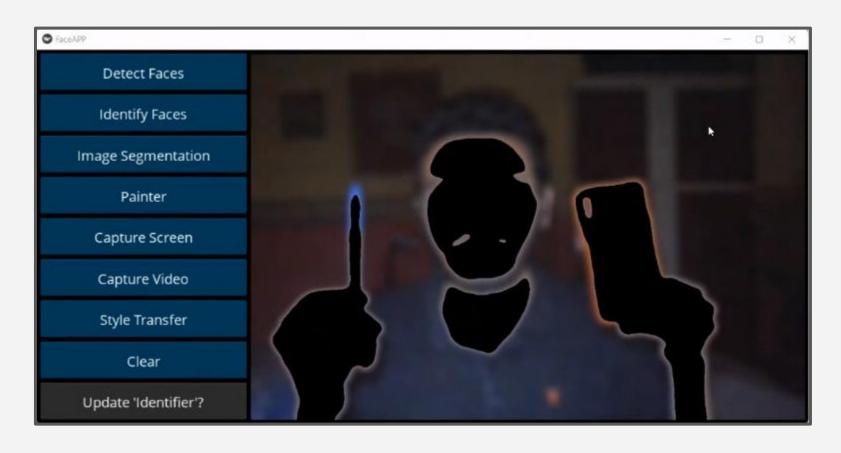
Apply "Update Identifier" Screen // Project Idea



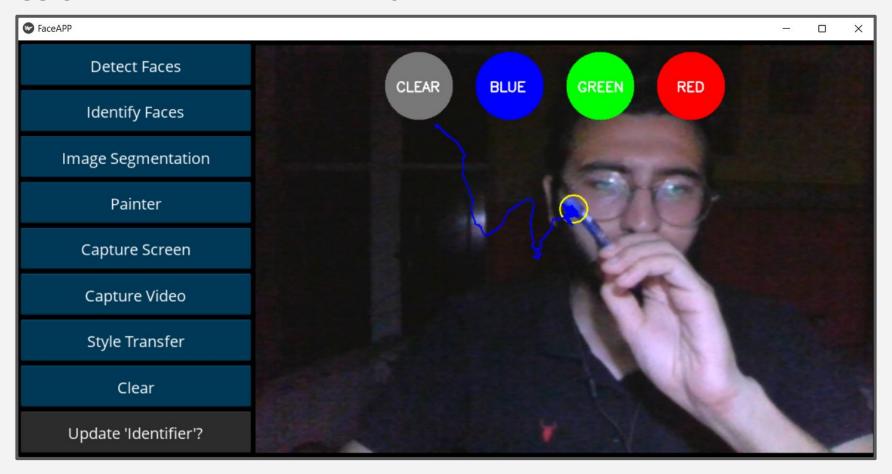
Apply "Image Segmentation" Screen // Project Idea



Apply "Image Segmentation" Screen // Project Idea



Apply "Painter" Screen // Project Idea



Apply "Style Transfer" Screen // Project Idea



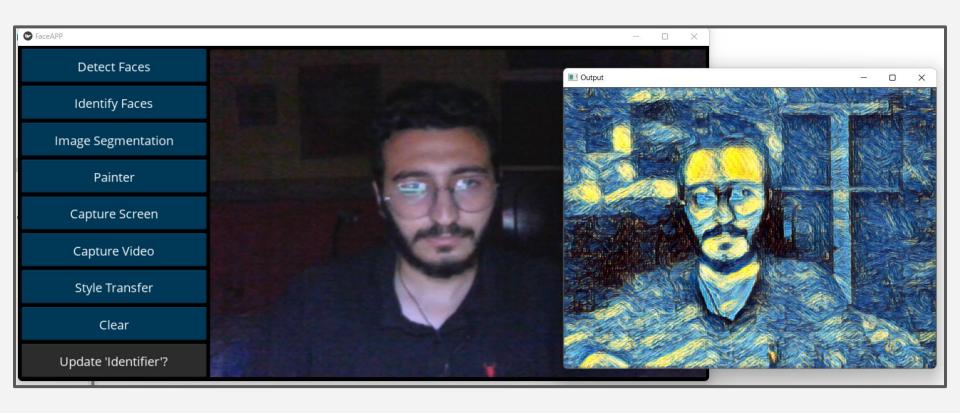
Apply "Style Transfer" Screen // Project Idea

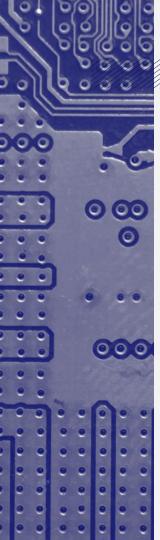






Apply "Style Transfer" Screen // Project Idea





Notes:

- 1- Clear button just clear the screen from any applied operation
- 2- Capture button as mentioned before just capture camera stream and save it to gallery.
- 3- Update 'Identifier' button mentioned before just update the Faces Database that contains the faces of people should Identifier know.

Use-Case Diagram

