



Credit Hours System



Cairo University
Faculty of Engineering

Image Processing and Computer Vision
Project Proposal
Team #7

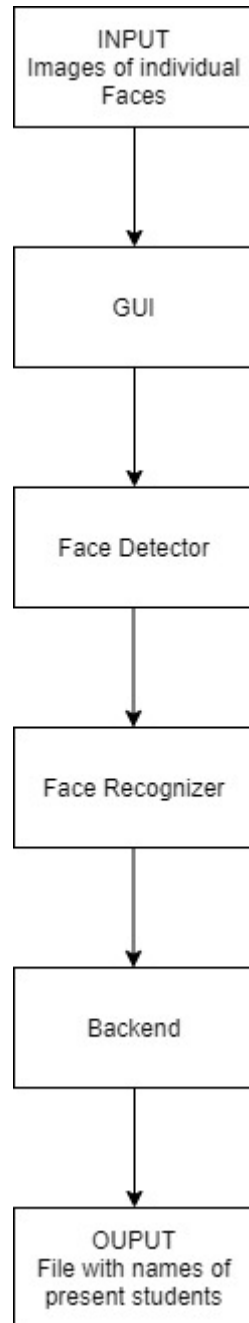
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Project Ideas

1) Attendance tracker

- Description:
 - Automate the process of taking attendance in college through face detection and recognition of the students enrolled in a certain course
- Need:
 - Facilitate the process of taking attendance and save time during lectures
- Input:
 - Images of individual faces
 - Enrolled students and their images
- Output:
 - Register the attendance directly to the system (names of present students)
- Modules:
 - GUI for the input (Mobile/web/desktop application, Flutter/React.js/C#/Python)
 - Backend for storing the pairings of student images with their names/IDs (.NET/node.js)
 - Face detector (python)
 - Face recognizer (python)

- Block Diagram:



- Scientific Papers:

- [Face recognition using Laplacianfaces | IEEE Journals & Magazine | IEEE Xplore](#)
- [Human face detection in a complex background - ScienceDirect](#)
- [Face Recognition Using Fisherface Method - IOPscience](#)
- [Face recognition using eigenfaces - Computer Vision and Pattern Recognition, 1991. Proceedings CVPR '91., IEEE Computer Society Confer \(ufpe.br\)](#)
- [Face Detection: A Survey - ScienceDirect](#)