FACE DETECTION

DAY 1

Morning :

Requirements *Gathering* :

Fixing the Problem Statement :
-> What we are doing and for what.
-> For Elections.
Browsing for basic installations
Searching for relevant codes in git

Installation of face_detection module :
Firstly dlib package...
git clone https://github.com/davisking/dlib.git
cd dlib
mkdir build
cd build
sudo apt install cmake
//to remove the locks: kill the previous procssess running in background
sudo kill proc_no
if not works---- sudo kill -9 proc_no
sudo apt install cmake
cmake ..
cmake --build .
cd ..
sudo python3 setup.py install
pip3 install face_recognition
sudo apt install python3-opencv

Afternoon :

Understanding the code.
Dlib library documentation : http://dlib.net/
Best reference Books for Learning :
https://github.com/KLGLUG/awesome-deep-learning
Intermediate Reference for Face Recognition :
https://buildmedia.readthedocs.org/media/pdf/face-recognition/latest/face-recognition.pdf

To know about any existing functions in python :
import packagename
dir(packagename)
help(packagename.function)

DAY 2

Morning :

Front End using Python :

Dlib – Also has GUI widgets
tkinter
kinter
pyQT
Flask – Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions.
Ref :http://flask.pocoo.org/docs/1.0/tutorial/

Back End :

CSV
Mongo DB (DataBase is not Preferable)

Data Collection

DataBase preparation

PIL Imaging Library (abbreviated as **PIL**)

Afternoon :

Working with writing of data in Python : Mainly Example 2
https://www.programiz.com/python-programming/working-csv-files#existing-files

DAY 3

Morning :

Looping to receive multiple files as input

Afternoon :

Dividing the main file to 2 halves as Training and Checking.
Importing one Trained set to Checker python file :
https://stackoverflow.com/questions/17255737/importing-variables-from-another-file