

# FACE DETECTION ATTENDANCE SYSTEM

Efficient attendance management solution.



# FACE DETECTION AND ATTENDANCE SYSTEM

A face recognition attendance system is a type of biometric technology that uses artificial intelligence to automatically identify and verify individuals based on their facial characteristics. These systems are commonly used to track attendance in workplaces, stores, and other organizations.

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"REVOLUTIONIZING  
ATTENDANCE  
MANAGEMENT"

# COMPARING TWO STATISTICS: FACE DETECTION ATTENDANCE SYSTEM

## Accuracy of detection system

Our face detection attendance system has an  
accuracy of 98.9%

## Time to record attendance

Our face detection attendance system records  
attendance within 5 seconds

# FACIAL RECOGNITION ATTENDANCE SYSTEM

01

## **Accurate attendance tracking from anywhere**

Real-time attendance tracking for  
remote teams and offices

02

## **Secure data storage on the cloud**

Eliminate errors from manual  
attendance tracking

03

## **Fast and easy to use**

Integrates seamlessly with existing  
systems

04

## **No hardware required**

Save money and reduce waste with a  
paperless system

# LANGUAGE BACKEND

- C++

# FORNTEND

- HTML
- CSS
- JAVESCRIPT

# BACKEND AND FORNTEND

- PYTHON
- JASON

# LIBRARIES

- OPENCV2
- IOSTREAM

”

# LIBRARIES

- OS
- PICKLE
- NUMPY
- CV2
- FACE\_RECOGNITION
- CVZONE
- FIREBASE\_ADMIN

# Attendance System

For Teacher

Enter

For Student

Enter

Enter Qalam ID Example: XYZ.bee22seecs

Enter Password Example: XYZ!#^&

Submit







## ATTENDANCE SYSTEM






ACTIVE





MARKED

ALREADY MARKED

# Storage

 gs://face-attendance-system-4e8cd.appspot.com > images

Upload file


<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	 407955.png	88.65 KB	image/png	25 Dec 2023
<input type="checkbox"/>	 407957.png	20.26 KB	image/png	25 Dec 2023



major: "Electrical Engineering"

name: "Muhammad Huzaifa"

standing: "G"



starting\_year: 2022

total\_attendance: 17

year: 2

```
import firebase_admin
from firebase_admin import credentials
from firebase_admin import db
cred = credentials.Certificate("serviceAccountKey.json")
firebase_admin.initialize_app(cred, options: {
    'databaseURL': ""
})

ref = db.reference('Students')

data = {
    "407957":
        {
            "name": "Muhammad Huzaifa",
            "major": "Electrical Engineering",
            "starting_year": 2022,
            "total_attendance": 7,
            "standing": "G",
            "year": 2,
            "last_attendance_time": "2022-12-11 00:54:34"
        },
}
```

## FD 1

- References
- External Dependencies
  - Header Files
  - Resource Files
- Source Files
  - Attendance sheet1.csv
  - Attendance sheet2.csv
  - Face Detection.cpp
  - Form1.html
  - Form2.html
  - GUI.html
  - Style.css

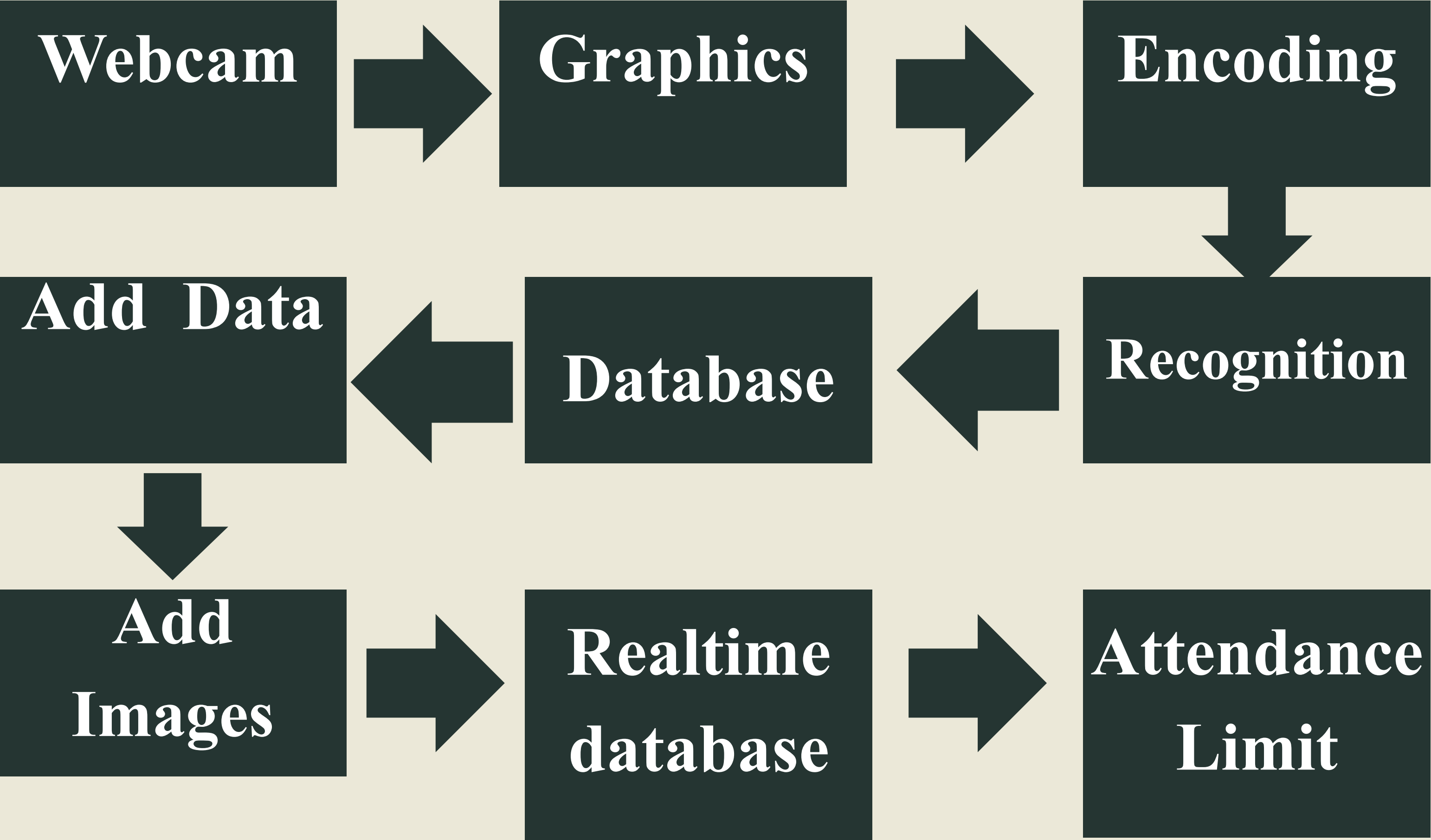
- Face Detection C:\Users\M Huzaifa
  - .venv library root
  - images
    - 407955.png
    - 407957.png
  - Resources
    - Modes
      - 1.png
      - 3.png
      - 4.png
      - background.png
  - tutorial\_env
    - AddDatatoDatabase.py
    - EncodeFile.p
    - EncodeGenerator.py
    - Main.py
    - serviceAccountKey.json
  - External Libraries

```
import cv2
import face_recognition
import pickle
import os
import firebase_admin
from firebase_admin import db, credentials, storage

cred = credentials.Certificate("serviceAccountKey.json")
firebase_admin.initialize_app(cred, options: {
    'databaseURL': "",
    'storageBucket': ""
})

# Importing student images
folderPath = 'images'
pathList = os.listdir(folderPath)
print(pathList)
imgList = []
studentIds = []

for path in pathList:
    image_path = os.path.join(folderPath, path)
    print(f"Processing image: {image_path}")
    img = cv2.imread(image_path)
```





# GITHUB REPOS.

Efficient attendance management solution.



▼  Resourese

▼  images

 407955.png

 407957.png

 Text2

 1.png

 3.png

 4.png

 background.png

 AddDatatoDatabase.py

 EncodeGenerator.py

 Main.py

 README.md

 resource

**THANKS FOR  
LISTENING.....  
(NO QUESTION)**