

PROJECT: DUMMY

Face Recognition Attendance System

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Agenda

- Definition
- Scope
- Project Status
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- Data Flow Diagrams
- System Architecture
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Definition

Face Recognition is a biometric method of identifying an individual by comparing live capture or digital image data with the stored record for that person.

Face Recognition Attendance System is marking of attendance based on this technology.

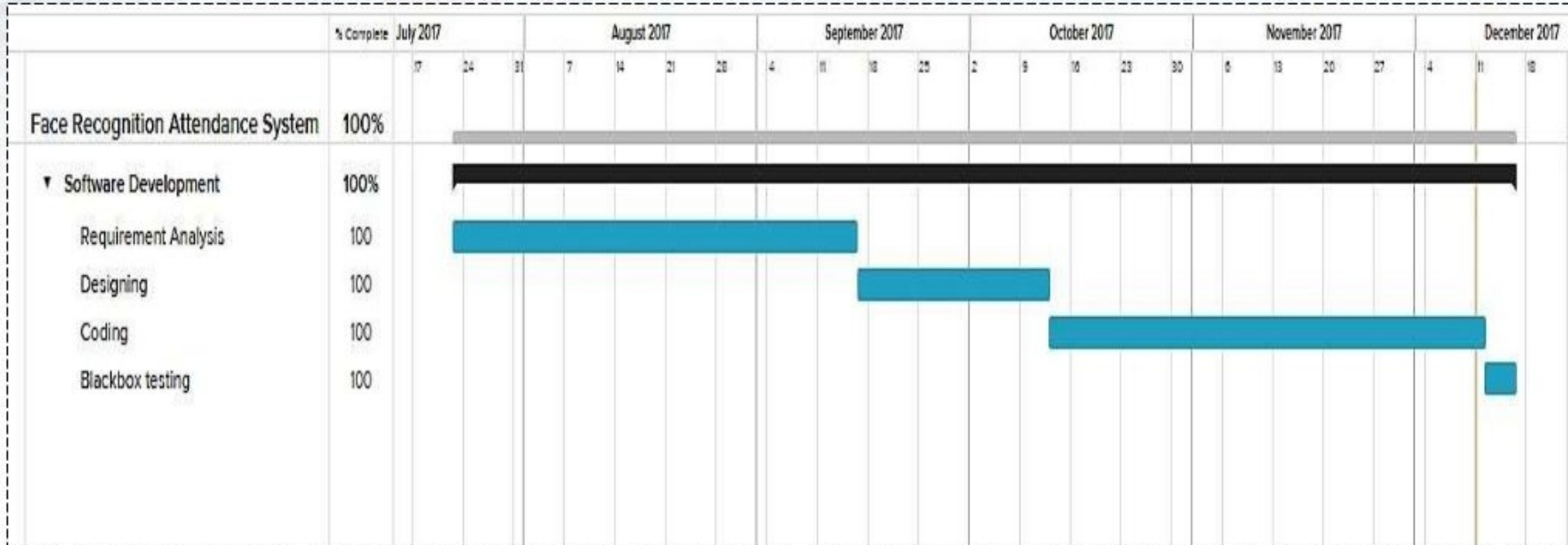


The header features a dark blue background with teal-colored gears on the left and a network of white lines with dots on the right, resembling a circuit or data flow.

Scope

- Provides an automated attendance system that is practical, reliable and eliminate disturbance and time loss of traditional attendance systems.
- Present a system that can accurately evaluate student's performance depending on their recorded attendance rate.

Project Status: Completed

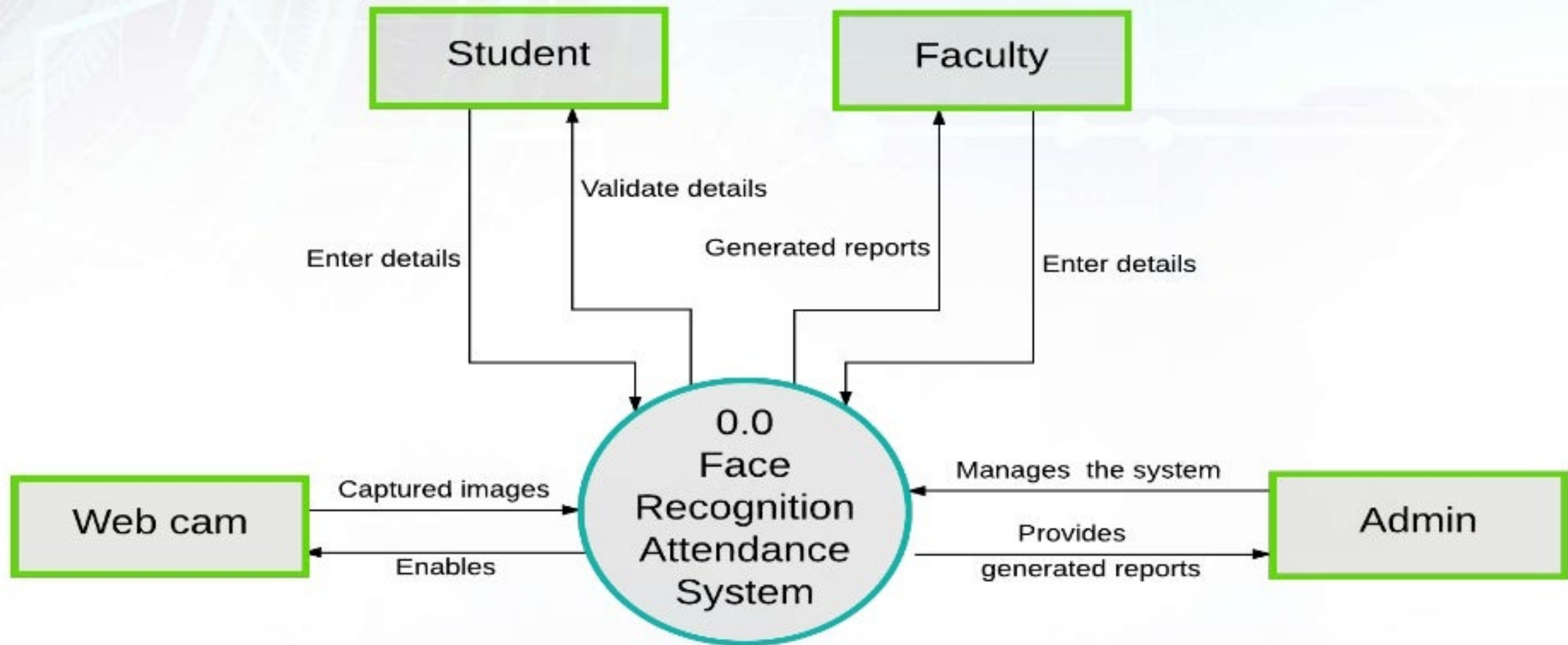


Methodology

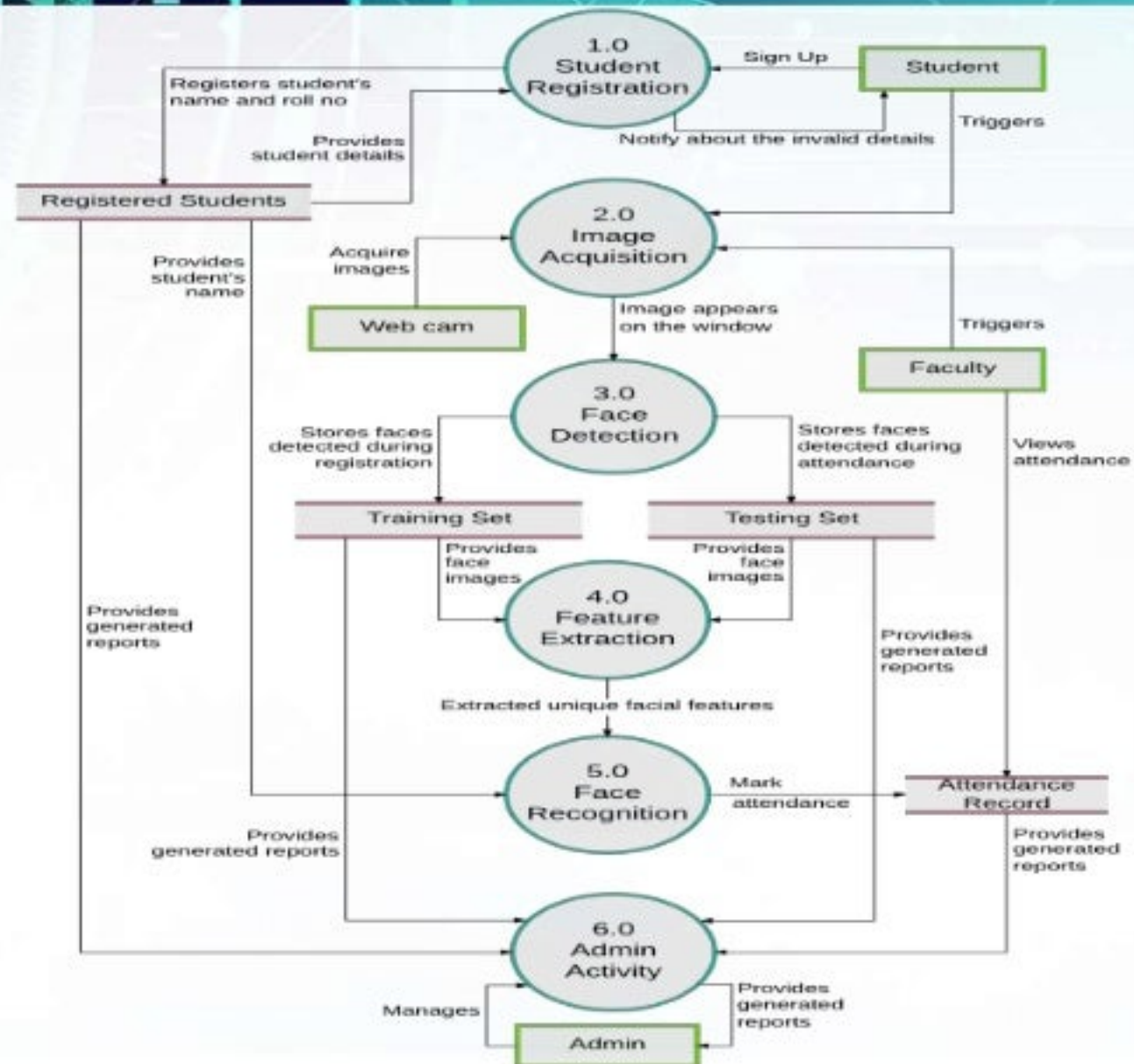
- Waterfall Model is a sequential approach, where each fundamental activity of a process represented as a separate phase, arranged in linear order.
- In the waterfall model, you must plan and schedule all of the activities before starting, working on them (plan-driven process).



System context diagram

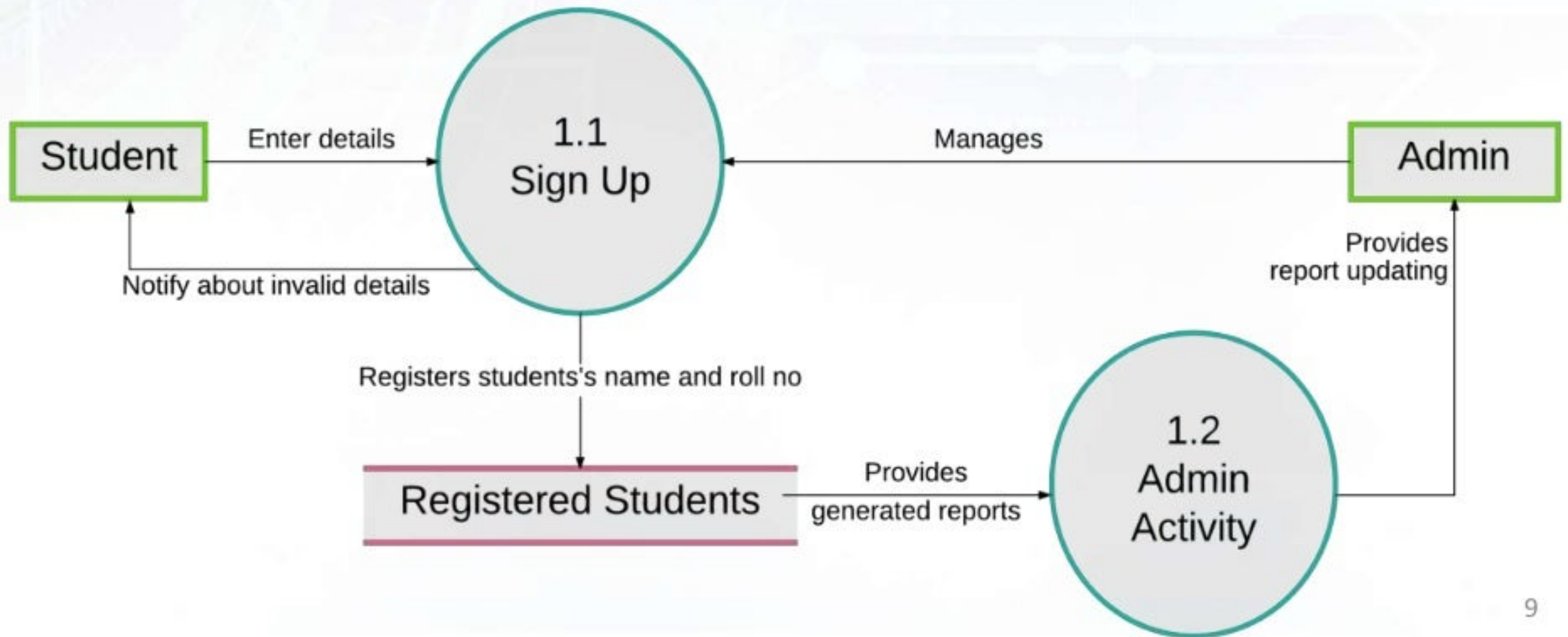


DFD level 0



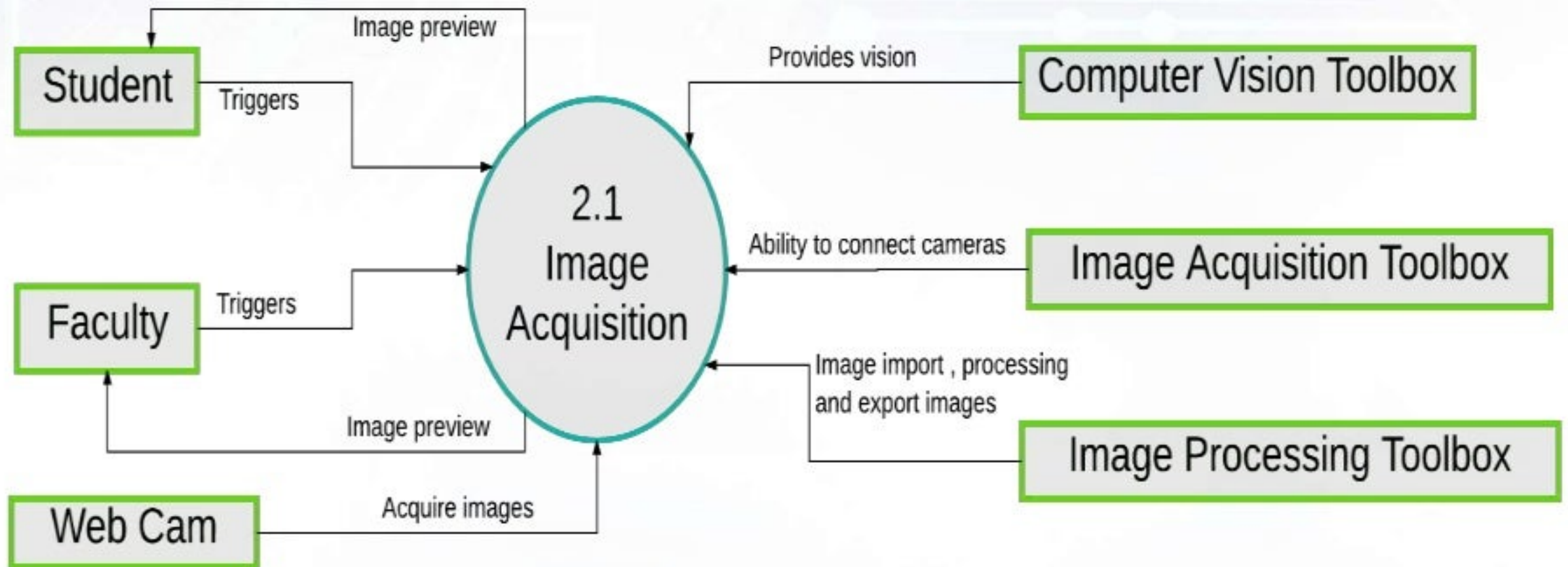
DFD level 1.1

Student Registration



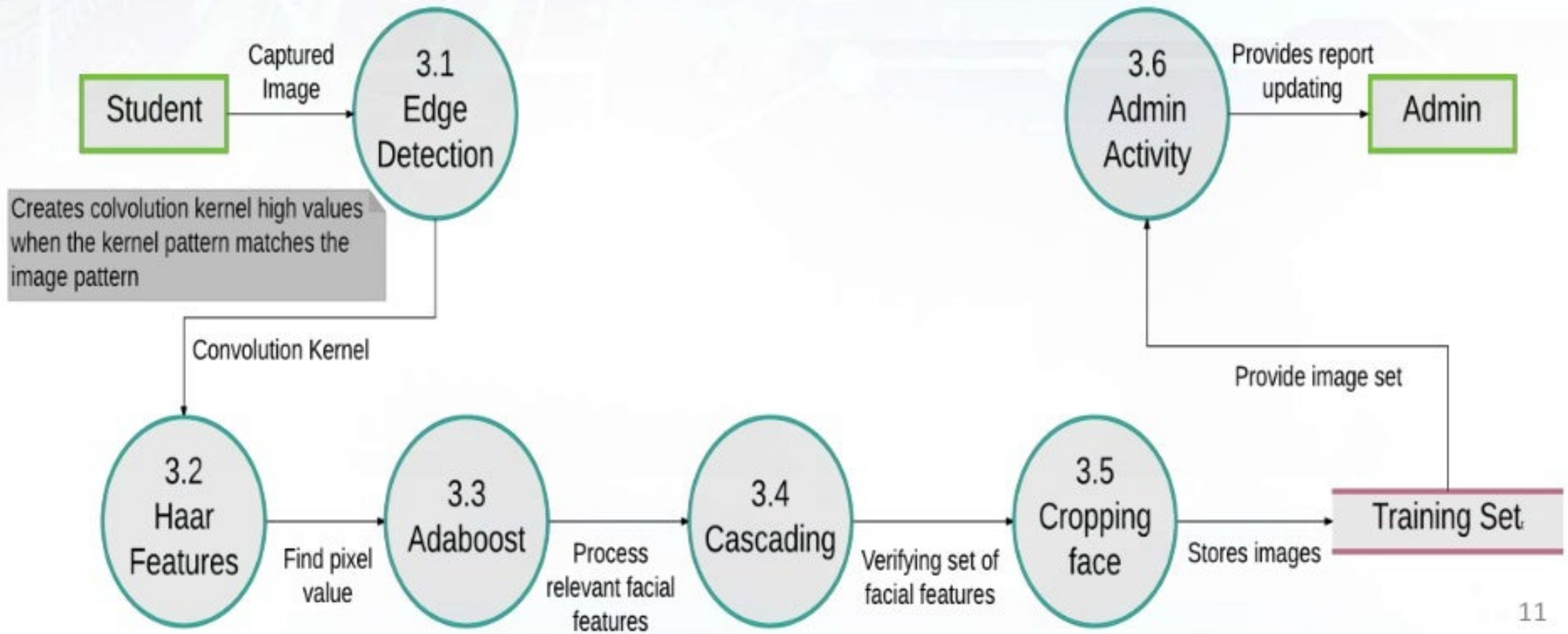
DFD level 1.2

Image Acquisition



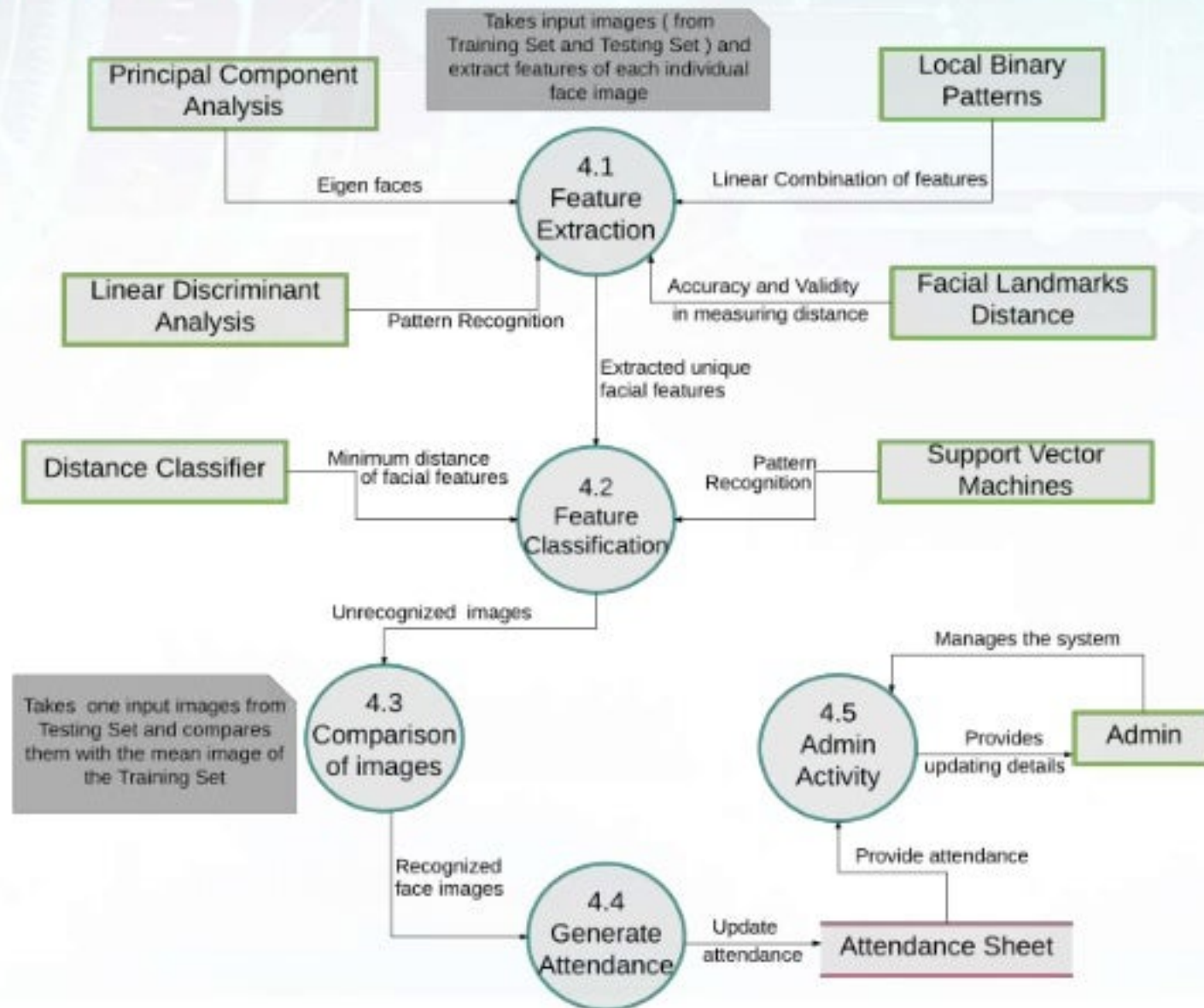
DFD level 1.3

Face Detection



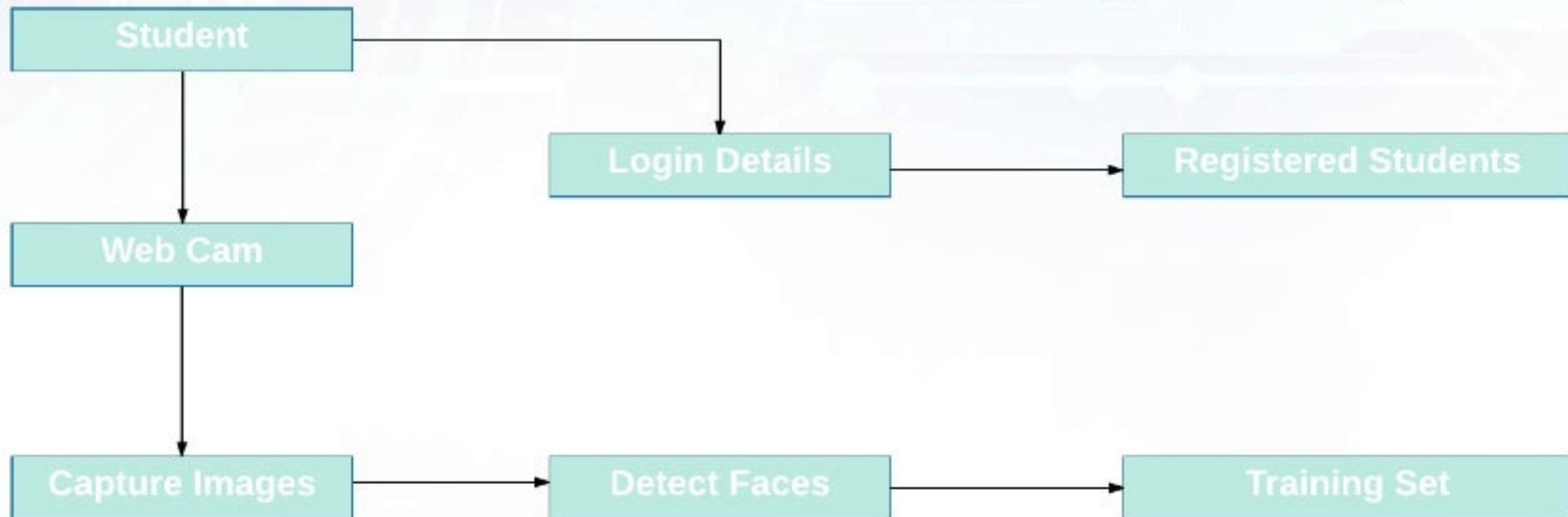
DFD level 1.4

Face Recognition



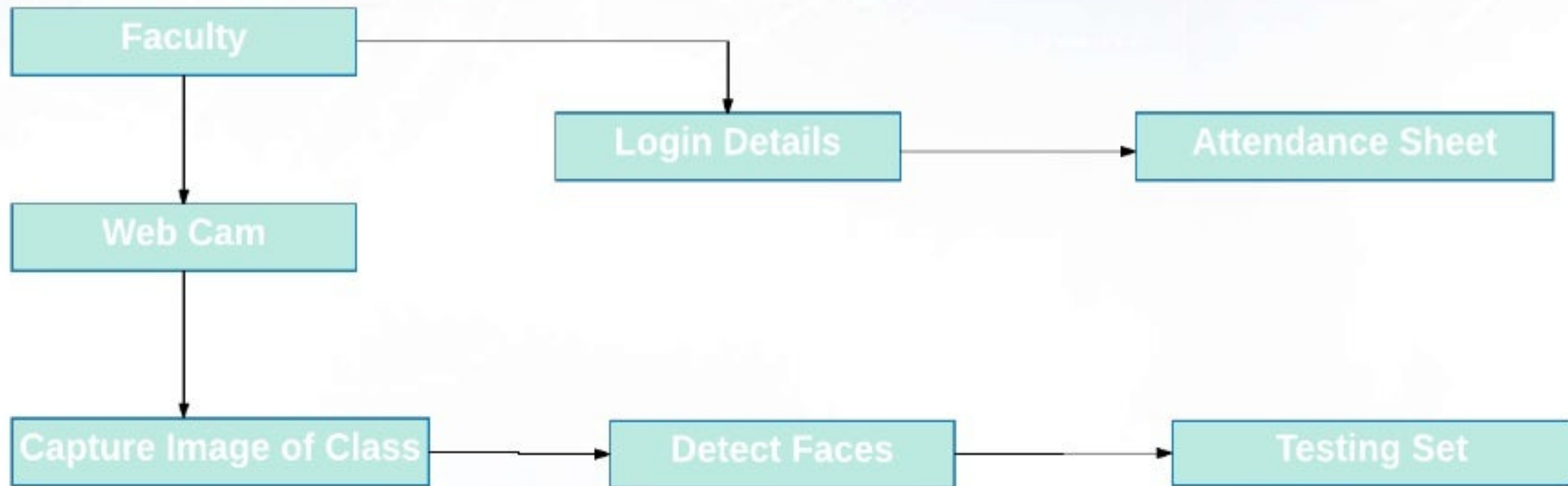
System Architecture

Training Phase: Registration



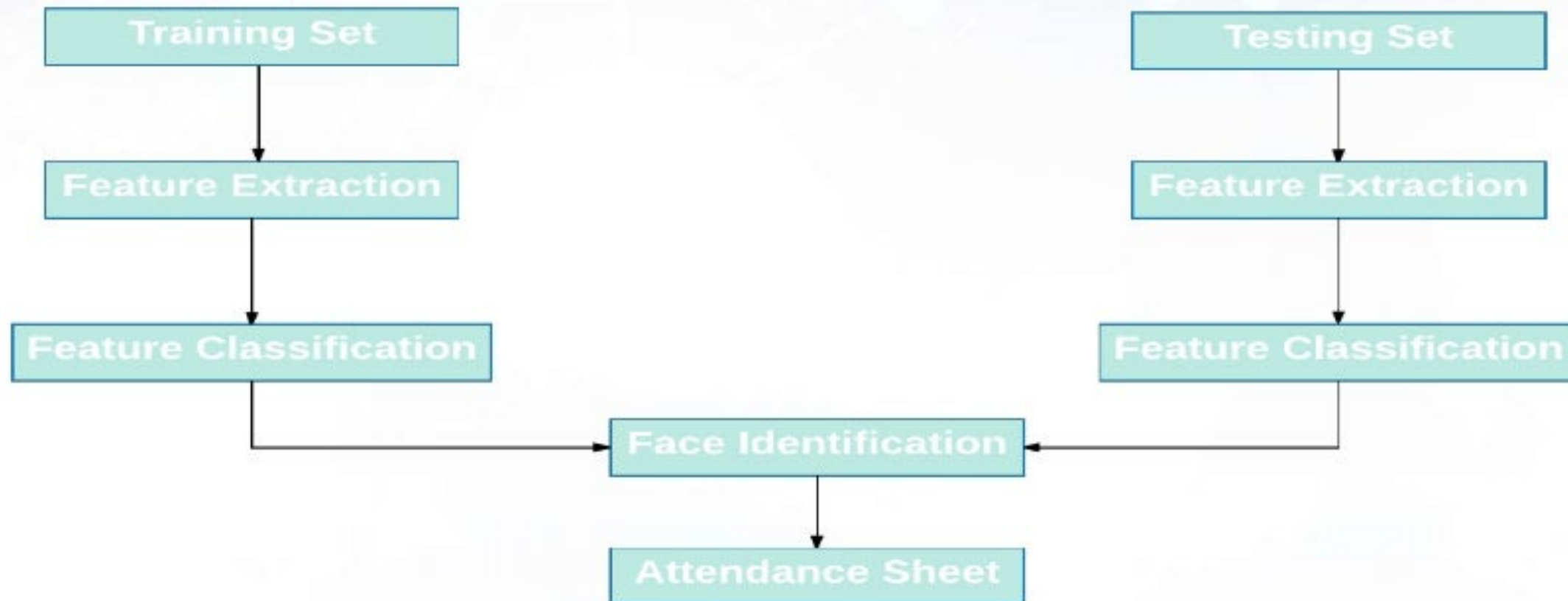
System Architecture

Testing Phase : Attendance



System Architecture

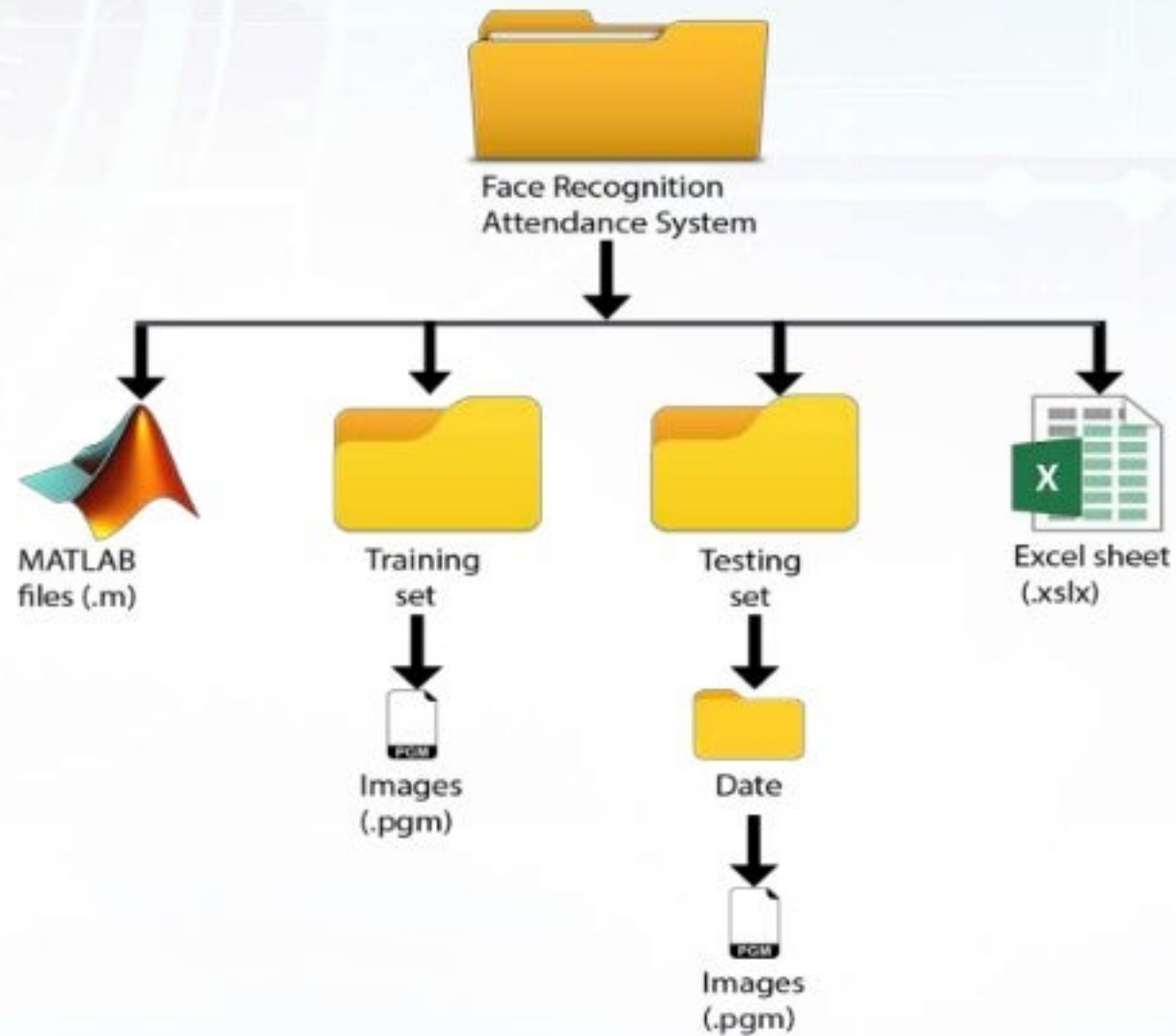
Recognition Phase



Database Dictionary

| Field Name | Data Type | Length | Constraint | Description |
|------------|-----------|--------|----------------------|-------------------------|
| Roll_no | Int | 3 | Primary key | Student roll no |
| Name | Varchar | 20 | Not null | Name of student |
| Date | Date | 10 | Not null | Date of the attendance |
| Time | Time | 10 | Not null | Time of the attendance |
| Attendance | Varchar | 7 | Present or Absent | Attendance of a student |
| Images | .pgm | 100 | Size must be of 11KB | Images of students |

Database design



Log in

Login

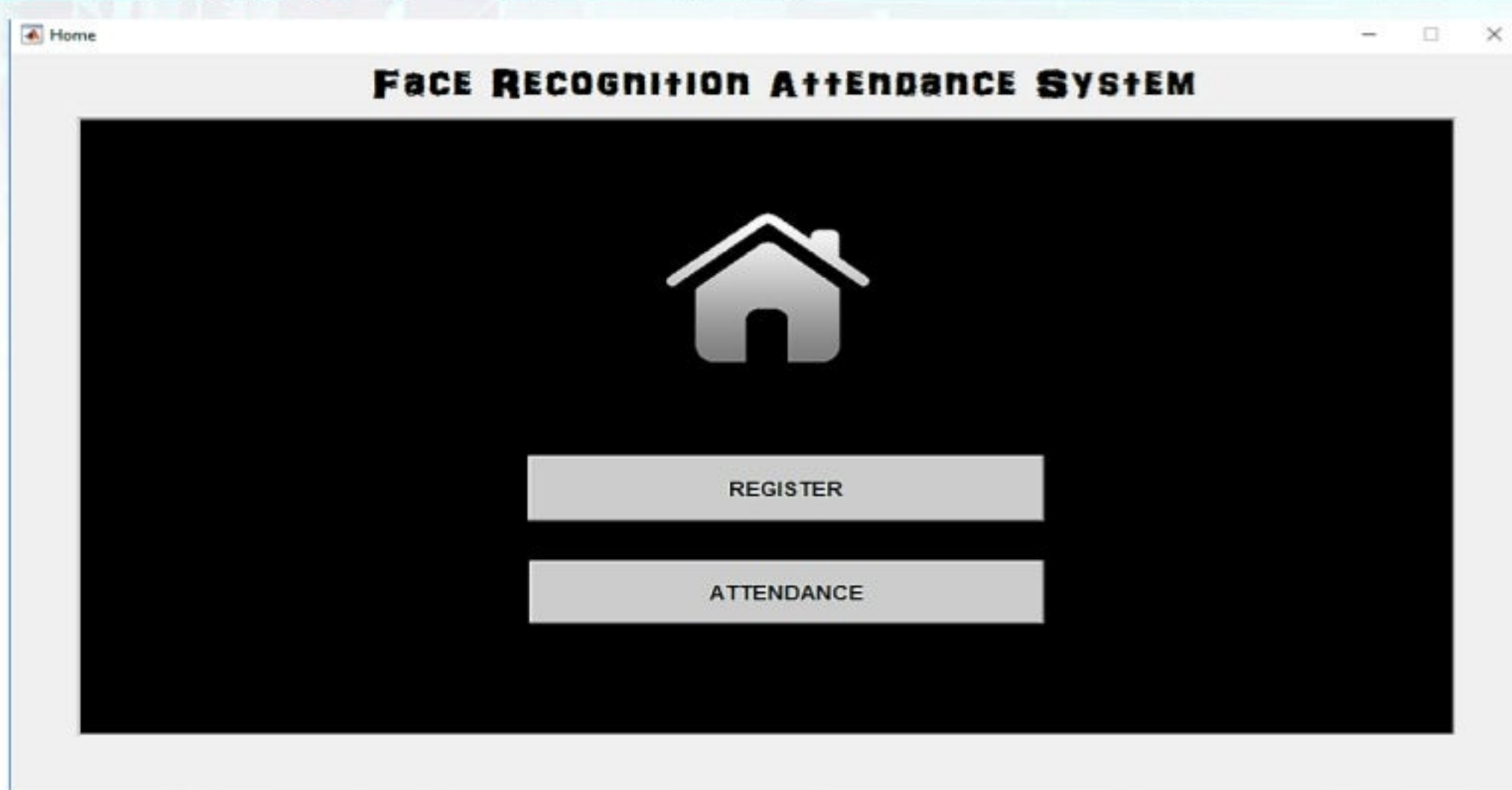
FACE RECOGNITION Attendance SYSTEM







The administrator needs to enter the username and password in order to start this system.




Home page of the system which consists of Registration and Attendance button

Registration Form

RegistrationForm

FACE RECOGNITION ATTENDANCE SYSTEM

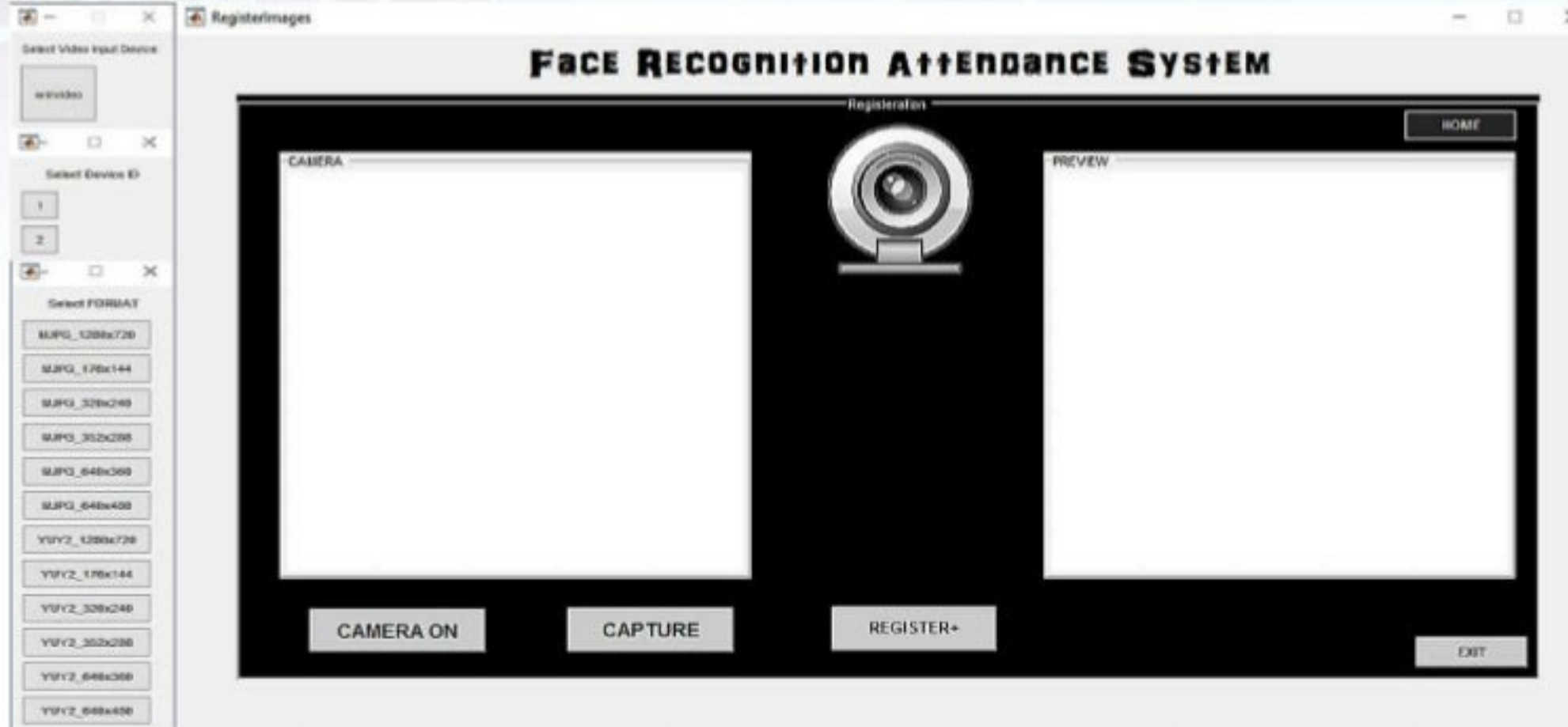


Roll no

Name

On clicking the REGISTER button, registration interface is provided.

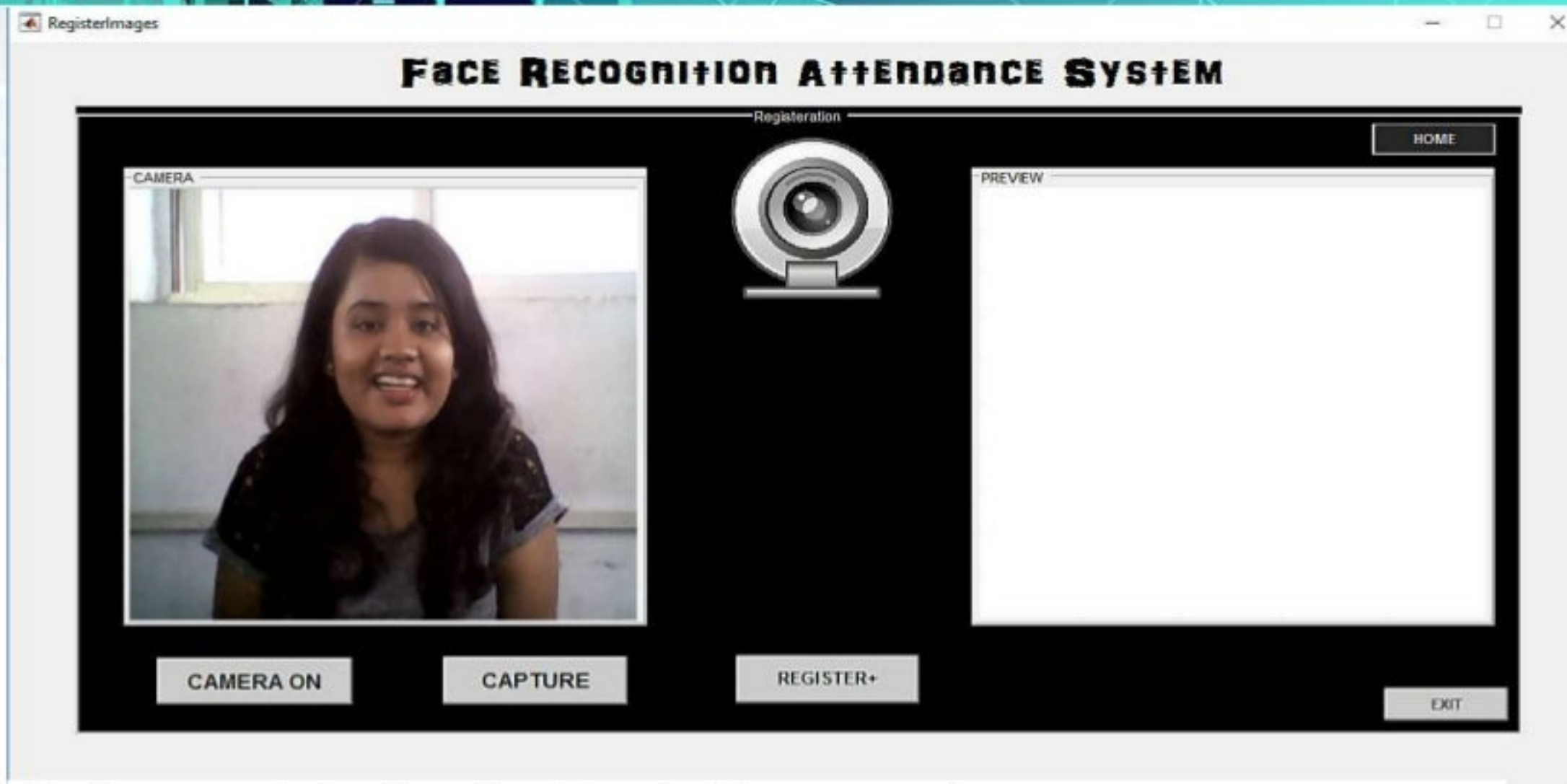
Registering Images



On successful login, the interface to capture images appears.

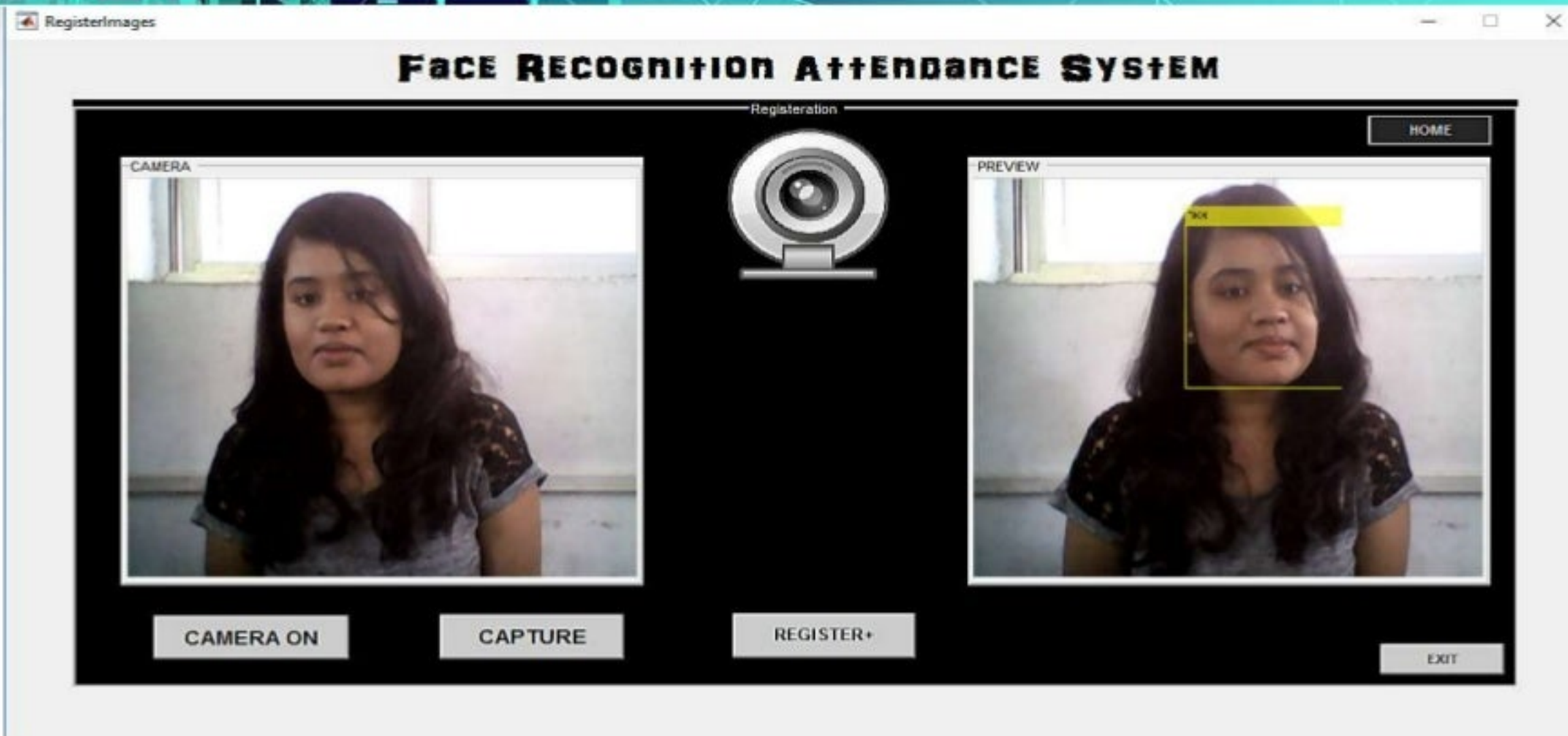
On clicking the CAMERA ON button, the dialog boxes appear to ask about the device type and the resolution type

Registration



After the camera settings have been selected, the student's image appears on the axes.

Registration



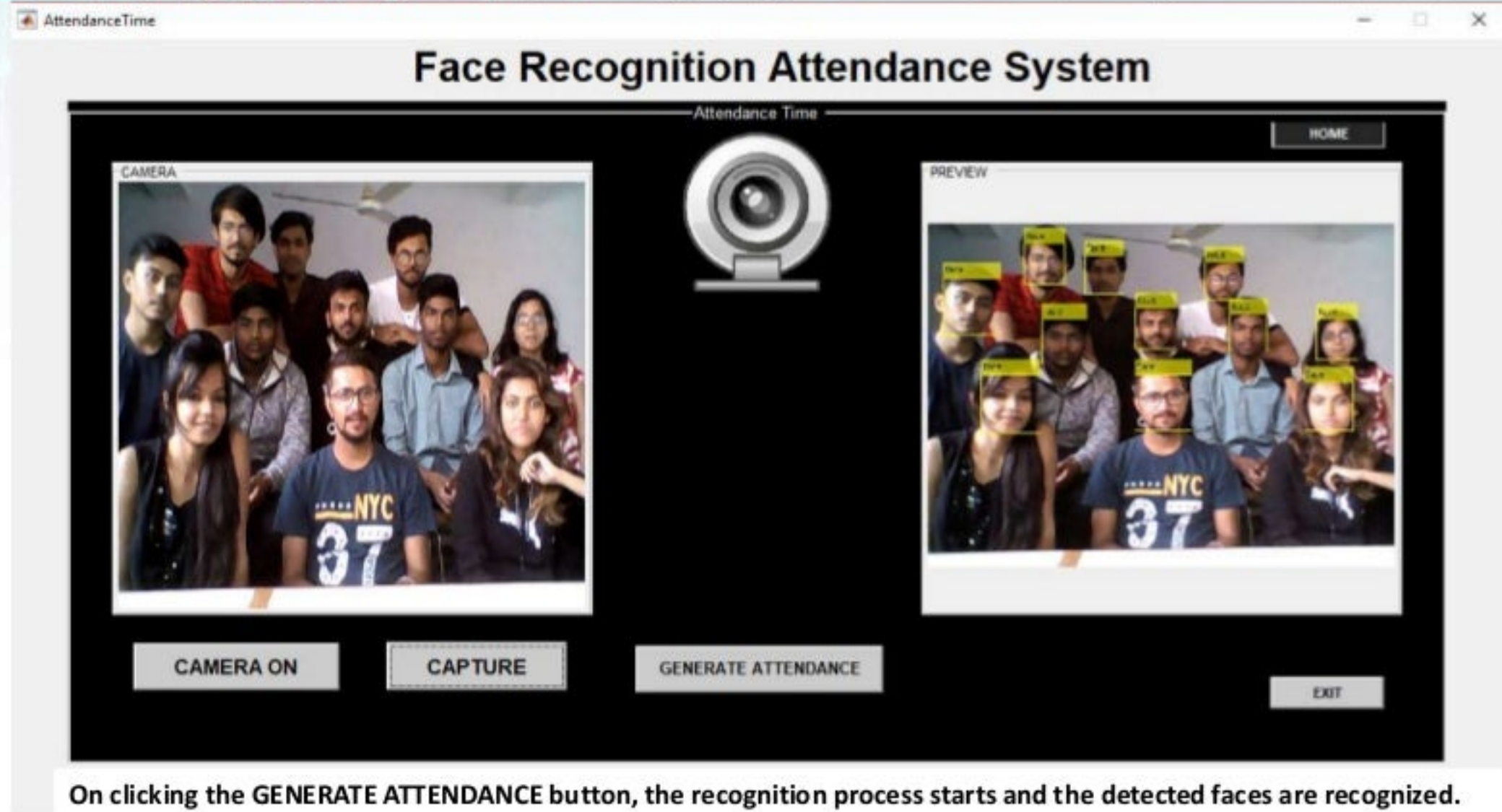
When the capture button is pressed the image has been captured and preview is shown into other axes highlighting the detected face.

Training set



Multiple faces are captured while registration with different expression for more accuracy.

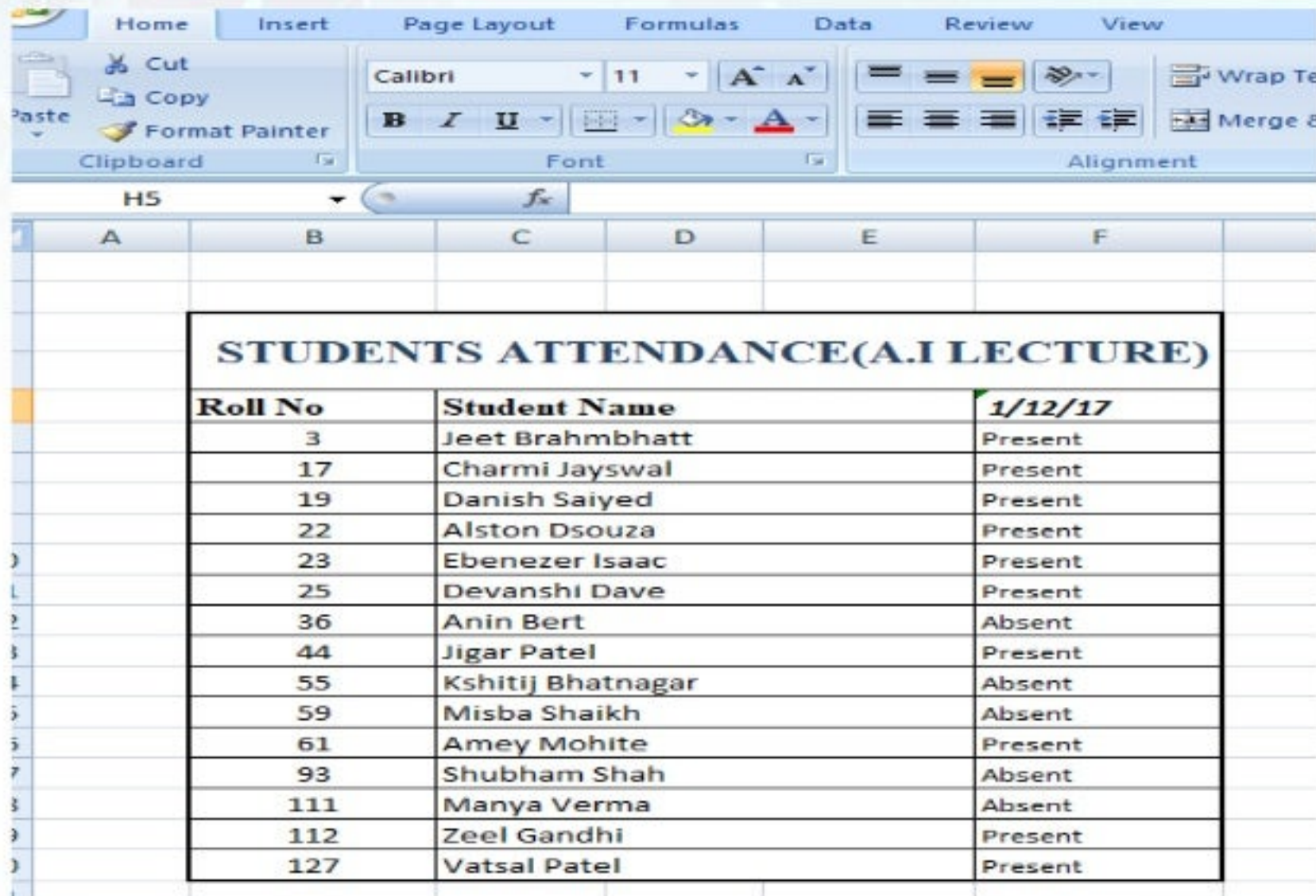
Attendance Time



Recognized faces



Generating attendance



| STUDENTS ATTENDANCE(A.I LECTURE) | | |
|----------------------------------|-------------------|---------|
| Roll No | Student Name | 1/12/17 |
| 3 | Jeet Brahmabhatt | Present |
| 17 | Charmi Jayswal | Present |
| 19 | Danish Saiyed | Present |
| 22 | Alston Dsouza | Present |
| 23 | Ebenezer Isaac | Present |
| 25 | Devanshi Dave | Present |
| 36 | Anin Bert | Absent |
| 44 | Jigar Patel | Present |
| 55 | Kshitij Bhatnagar | Absent |
| 59 | Misba Shaikh | Absent |
| 61 | Amey Mohite | Present |
| 93 | Shubham Shah | Absent |
| 111 | Manya Verma | Absent |
| 112 | Zeel Gandhi | Present |
| 127 | Vatsal Patel | Present |



Learning and Experience

From scratch to working software, carrying out real-world software projects in our academic studies helps us to understand what we have to face in industry.

It was a wonderful experience working on **Face Recognition Attendance System** with enthusiastic and like-minded people wherein we explored a part of Artificial Intelligence, i.e. image processing, which relates to our system from capturing images, detecting faces, storing them in a database, extracting facial features, recognizing them and generating attendance through different algorithms, books, websites and with the guidance of our guide.

We have learned most of the industrial strategies used for completion of project by keeping accounts of time, quality, and budget.

This project was a door to a Stairs of Success towards the bright Software Engineering career.



Thank You