**Project Title: Smart Gate System with Face Recognition for AUCA Students**

**1. The Problem (What is happening)**

At AUCA's entrance, security always asks students to show their Student ID or Registration Form.

If the student doesn’t have it ready, they must open their bag and search for it, which causes students feel frustrated.

Even when security knows a student, they still ask again the next day.

For new students, the situation is worse because they only have a temporary ID on the registration form.

This process is boring.

**2. How We Noticed the Problem**

New students register and receive a registration form with a temporary ID.

They wait for some time to get a permanent student ID.

Meanwhile, they are asked every day to show papers at the gate.

We realized this repeated process is a problem that can be solved using technology.

**3. Our Solution: Smart Gate with Face Recognition**

It would be better if there was a gate system that scans a student’s face to let them in.

No need to carry or show any ID card or form.

The system will recognize the student and open the gate if they are in the database.

**4. How It Works (Step-by-Step)**

**Step 1: Registration Time**

When a student registers, their face is captured and stored in the system.

Once the registration form is given, the system connects the temporary ID to the student’s face.

**Step 2: Entering the Gate**

A camera scans the student’s face at the gate.

**If the face matches a record in the system:**

The gate opens.

The student’s name and ID are shown on the screen.

**If the face is not in the system:**

The gate stays closed.

The student is asked to go and complete registration.

**Step 3: After Getting a Permanent ID**

The system is updated with the new permanent ID.

The face remains the same but is now linked with the new ID.

**5. Benefits of the System**

Fast entry without needing to search for ID or forms.

Works for both new students and those with permanent IDs.

No delays at the gate.

Easy for security staff to manage.

Improves campus safety and order.

**6. Extra Benefit: Reduce Conflicts with Security**

Some students become angry or refuse to show ID.

This can lead to arguments or bad behavior.

With face recognition, there is no need for talking or checking by hand.

This system avoids conflict and keeps peace between students and security.

**7. Future Features (Optional Improvements)**

Connect the system to class attendance.

Add visitor face records for guest access.

Send alerts to students who are not yet registered.

Extend the system to staff and teachers.

**Conclusion:** This project will help both students and the university. It saves time, avoids stress, and uses modern technology to make AUCA smarter and more peaceful. The gate will recognize faces and allow students to enter without delay or conflict. It is a simple but powerful solution.