❖ Hardware Requirements

1. **Arduino**: Used for sending commands to lock and unlock the door.(Uno or Nano).
2. **Servo Motor**: Connected to the Arduino to physically lock/unlock the door.(Sg_90 or mg_90s servo motors).
3. **Webcam**: For capturing images to detect faces. (optional).
4. **Speaker**: To play audio messages (optional).
5. **Microphone**: For speech input, allowing the system to recognize user commands. (optional).
6. **USB to Arduino Cable**: For communication between the Arduino and computer.
7. **DOOR lock push or pull mechanism (your design)**

❖ Software Requirements

1. **VS CODE or PYcharm**
2. **Arduino IDE**: Download and install the Arduino IDE from Arduino's website for uploading code to the Arduino.