

Attachments: (Include any other document)

a. Diagrams/Drawings/Blueprints

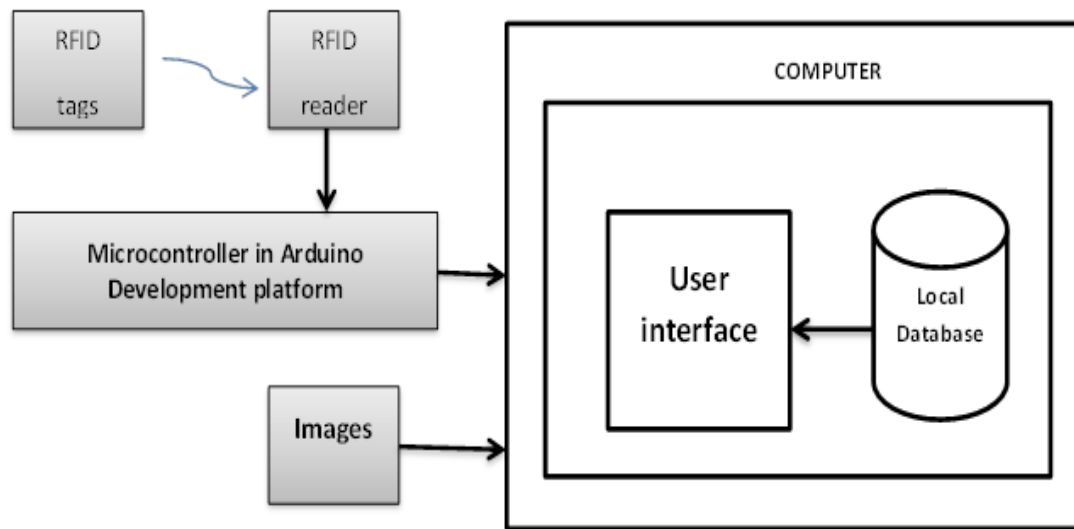


Figure 3: the system block diagram

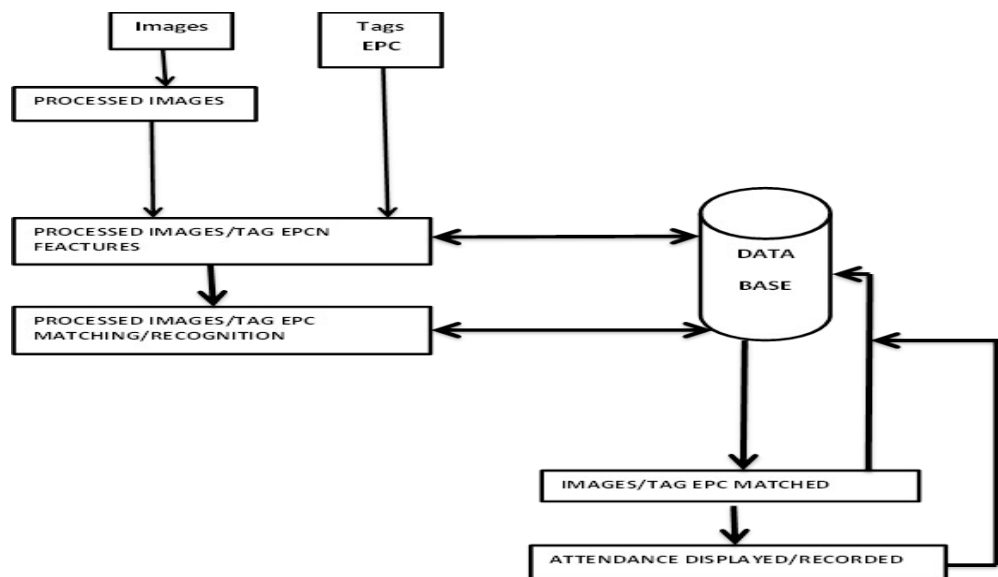


Figure 4: the logic flow diagram

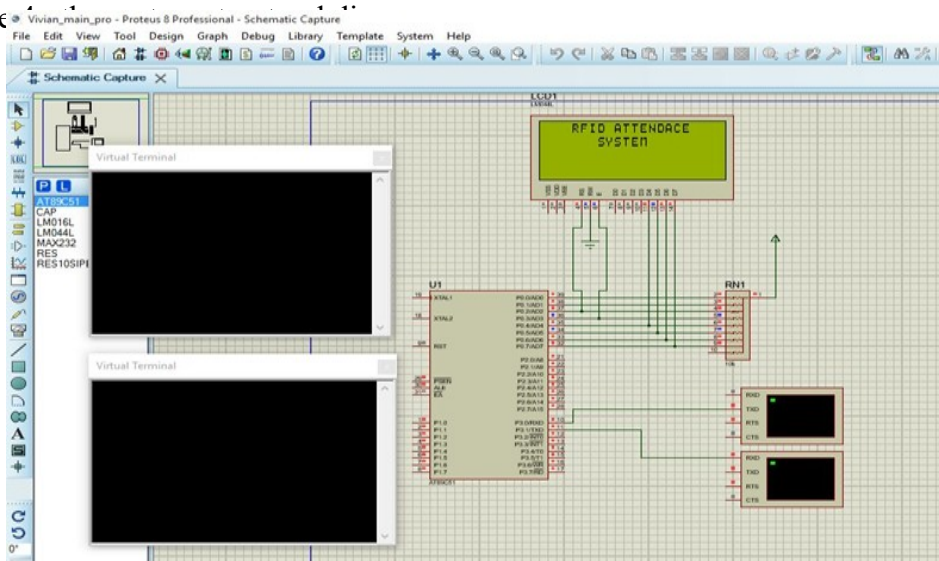


Figure 5: the system circuit diagram

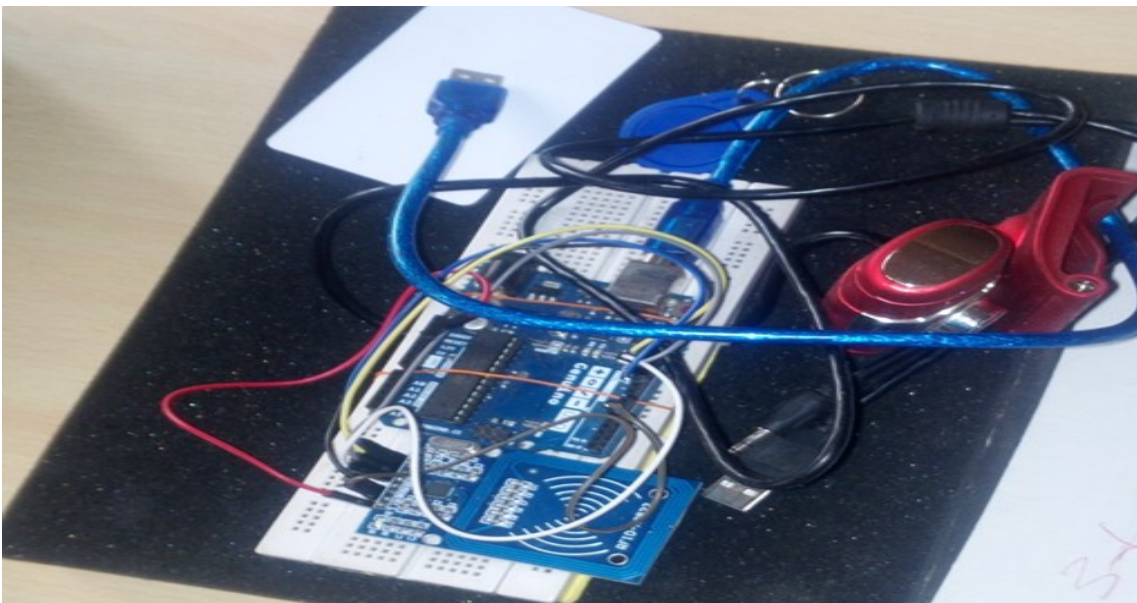


Figure 6: the hardware design

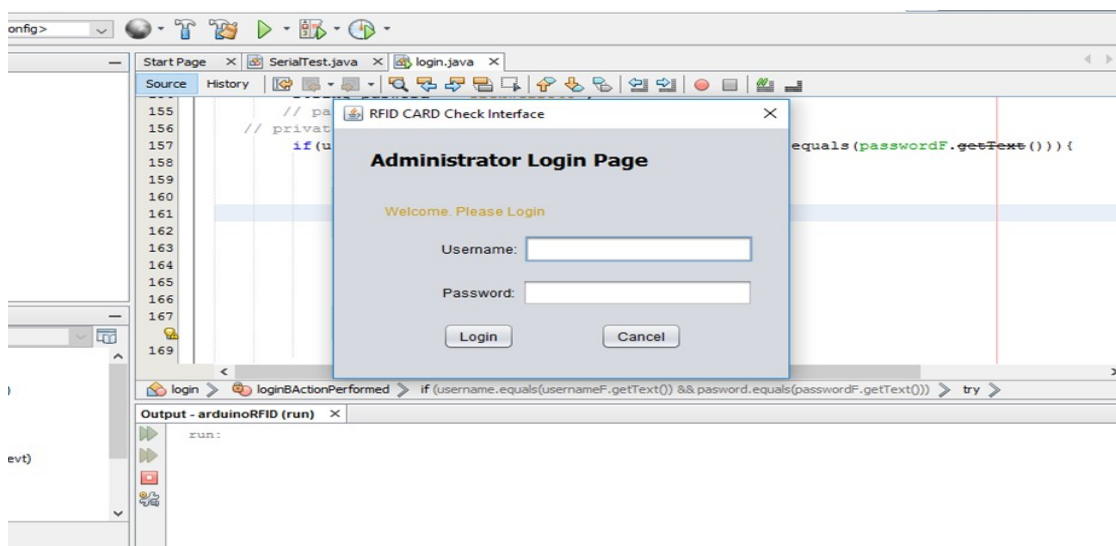


Figure 7: the admin login

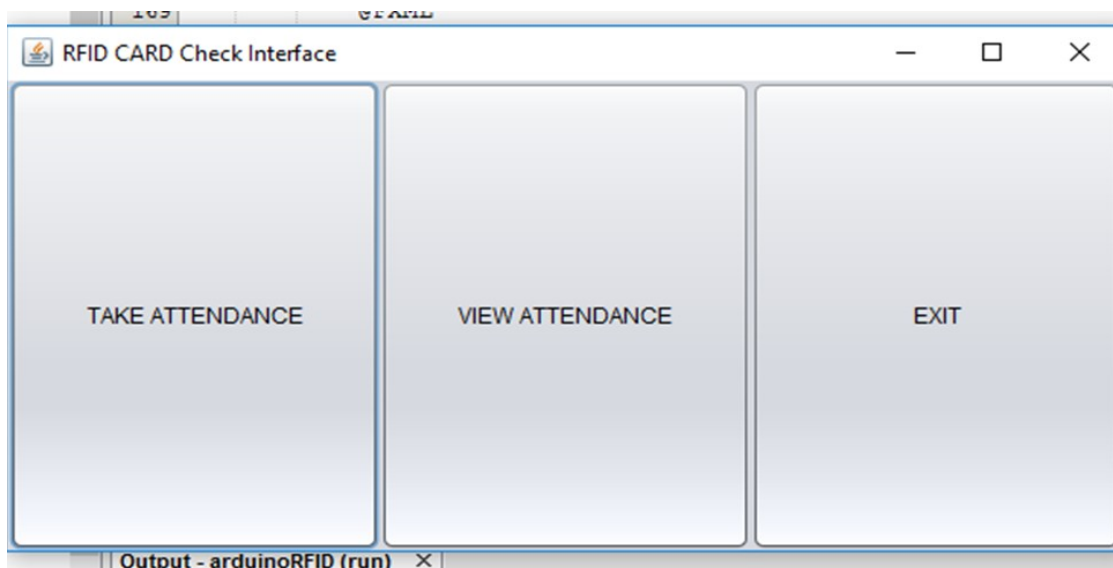


Figure 8: the attendance interface

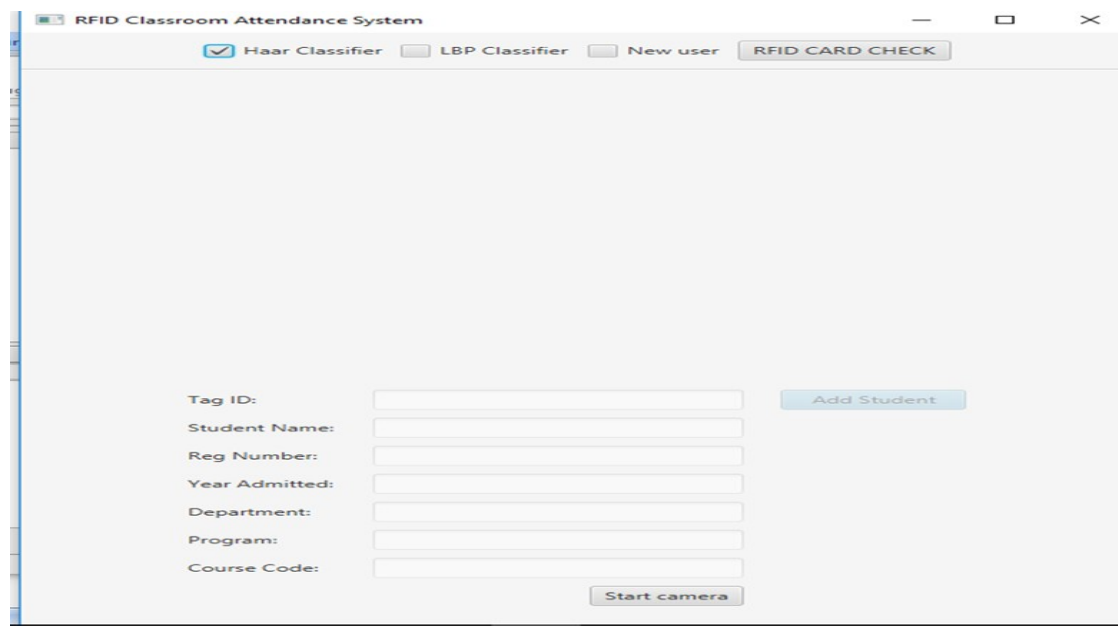
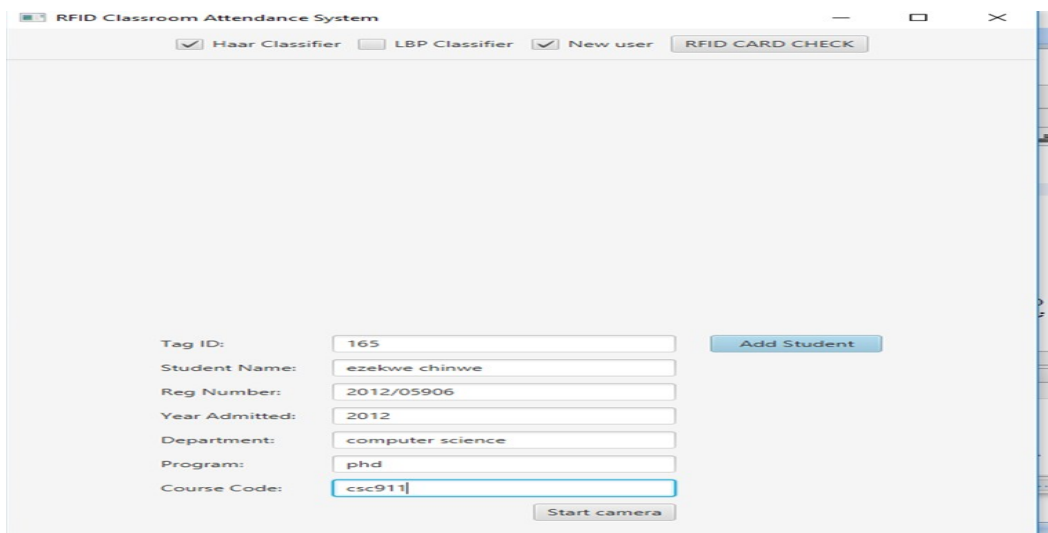


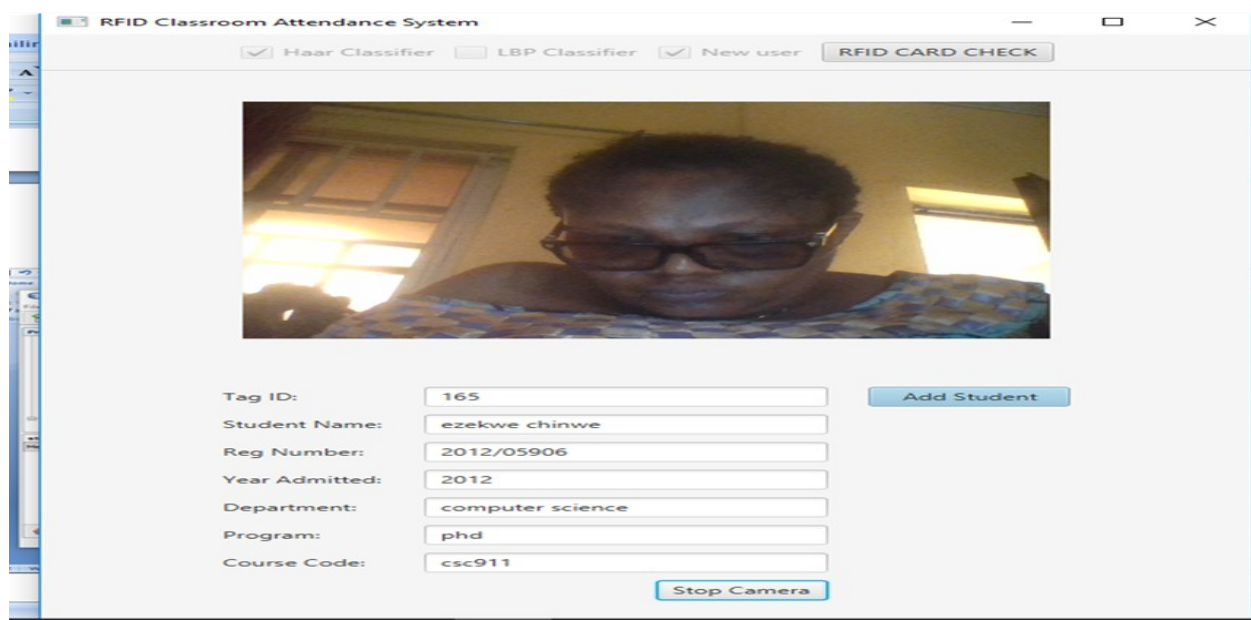
Figure 9: the registration and image processing interface



The screenshot shows the 'RFID Classroom Attendance System' window. At the top, there are checkboxes for 'Haar Classifier' (checked), 'LBP Classifier' (unchecked), and 'New user' (checked), along with an 'RFID CARD CHECK' button. The main area contains a registration form with the following fields: 'Tag ID' (165), 'Student Name' (ezekwe chinwe), 'Reg Number' (2012/05906), 'Year Admitted' (2012), 'Department' (computer science), 'Program' (phd), and 'Course Code' (csc911). An 'Add Student' button is positioned to the right of the form. At the bottom right, there is a 'Start camera' button.

Tag ID:	165
Student Name:	ezekwe chinwe
Reg Number:	2012/05906
Year Admitted:	2012
Department:	computer science
Program:	phd
Course Code:	csc911

Figure 10: the registration in progress



This screenshot shows the same 'RFID Classroom Attendance System' window, but with a live video feed from a camera. The video shows a person wearing glasses and a patterned shirt. The registration form fields remain the same as in Figure 9. The 'Add Student' button is still present. At the bottom right, a 'Stop Camera' button has appeared, replacing the 'Start camera' button from the previous state.

Tag ID:	165
Student Name:	ezekwe chinwe
Reg Number:	2012/05906
Year Admitted:	2012
Department:	computer science
Program:	phd
Course Code:	csc911

Figure 11: image training

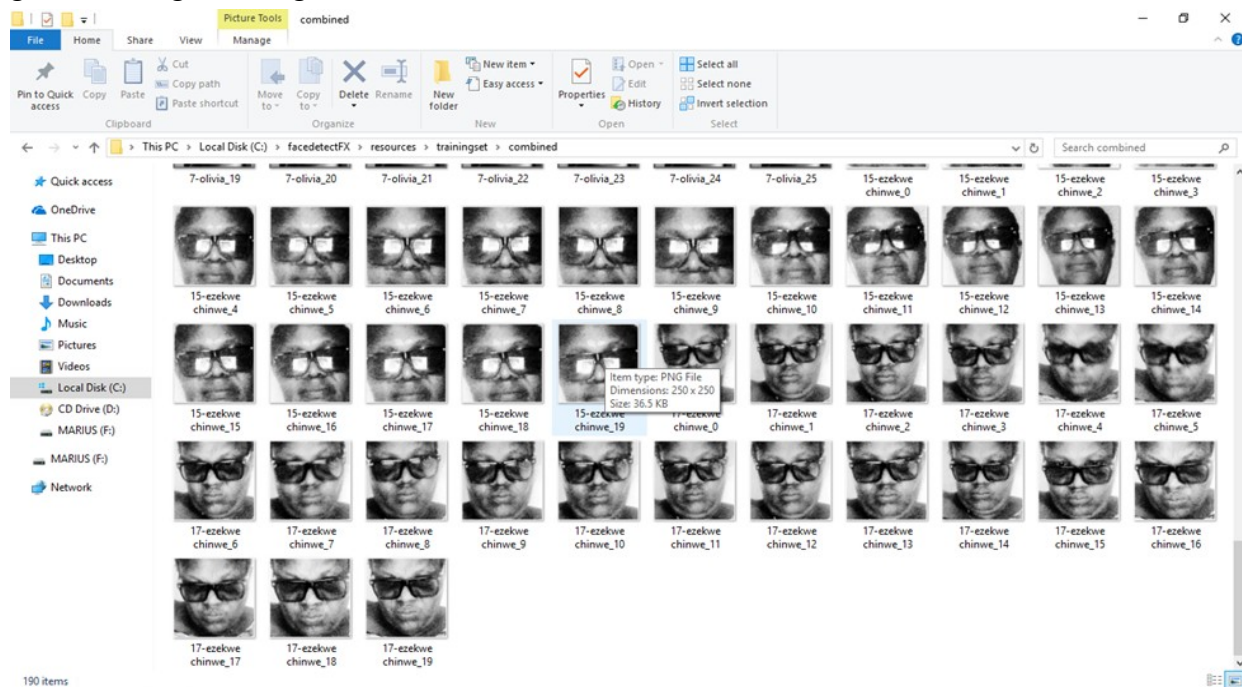


Figure 12: different face eigen factors generated after training

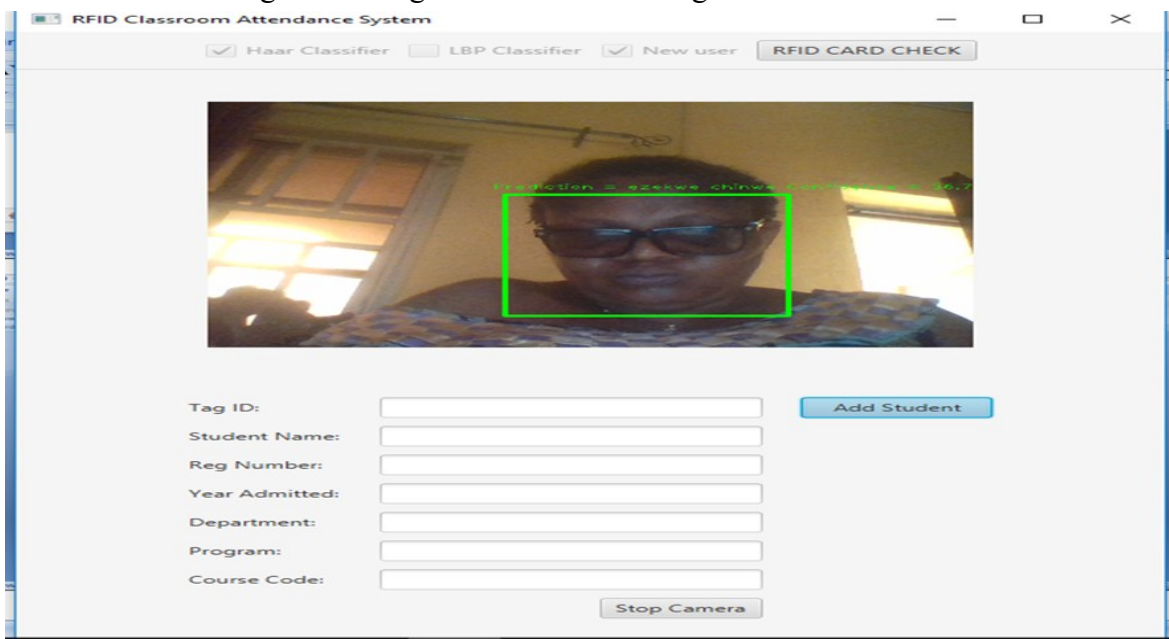


Figure 13: face eigen factors recognition for taking attendance

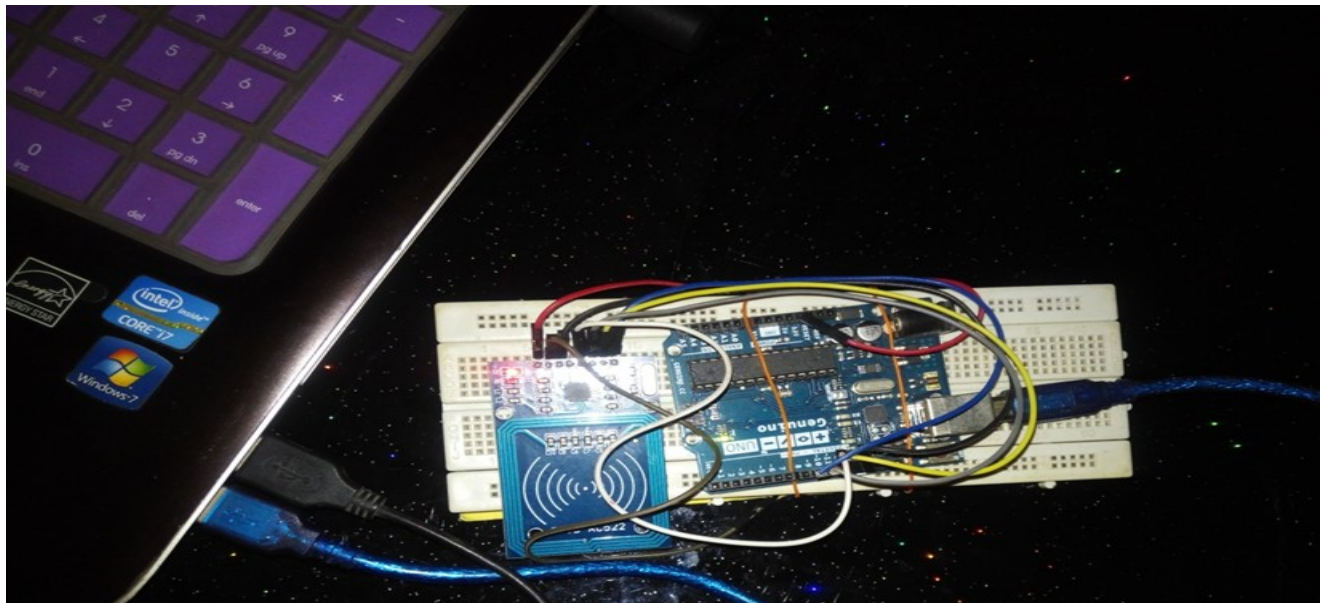


Figure 14: hardware interfaced ready for taking attendance

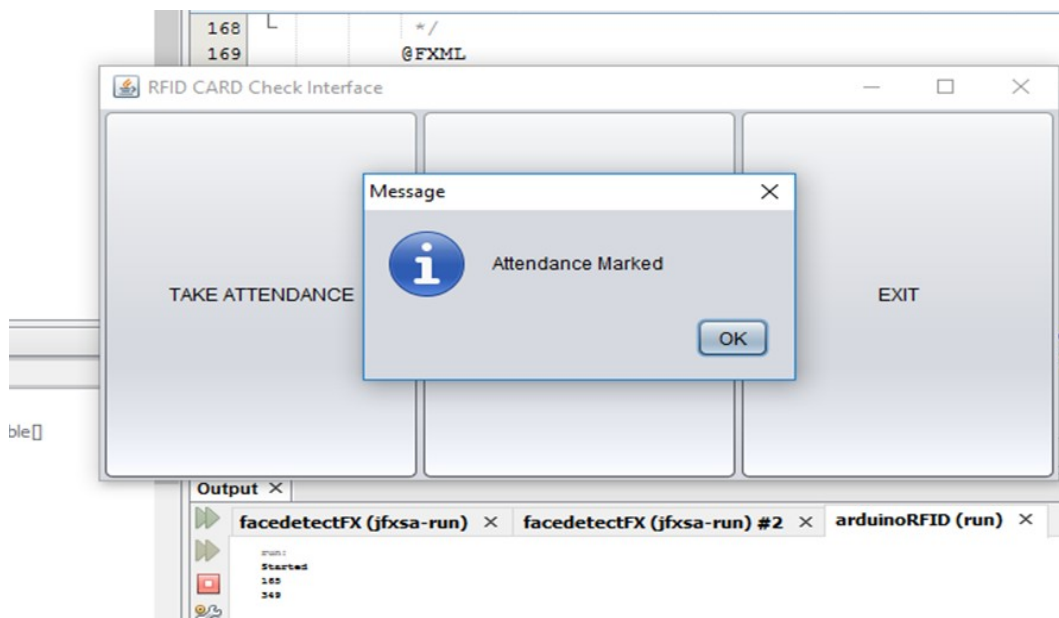


Figure 15: attendance taken with the right tag EPC and face eigen factors

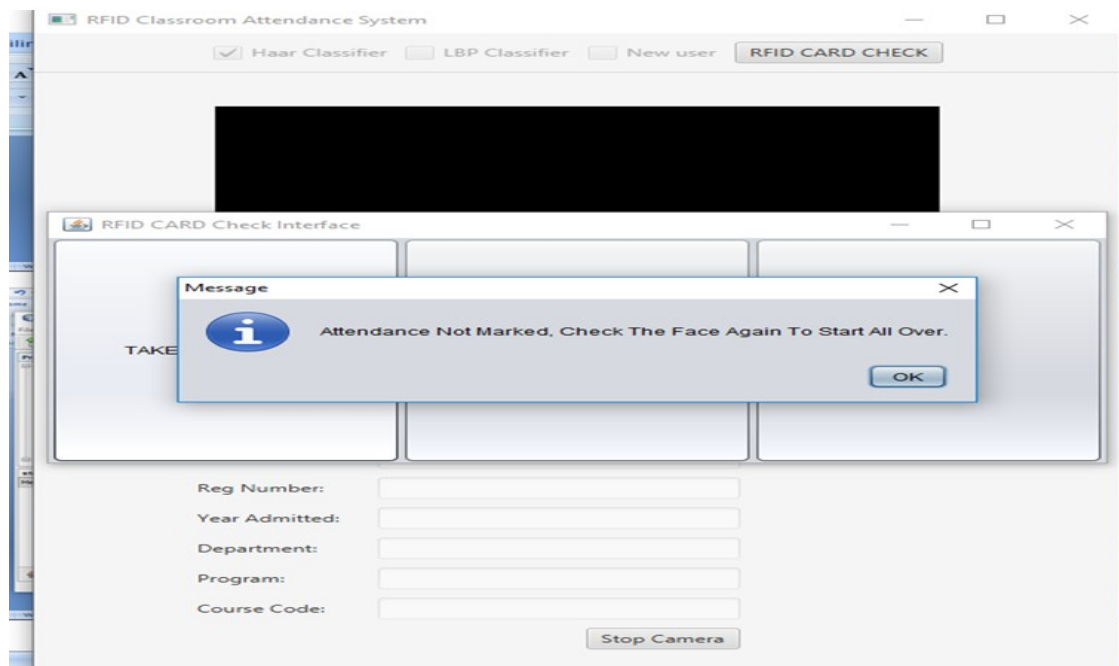


Figure 16: attendance not taken because of wrong face eigen factors