**Military Institute of Science and Technology**

**Department of Computer Science and Engineering**

**CSE 460 (Integrated Design Project)**

**Group Number:** 05

**Group Members:** Zobayer(201714013), Jhumu (201714023),Mahin(201714027), Tarek(201714030), Nafiz (201714043)

Sumaiya(201714059)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CSE 460A - Integrated Design Project II (Hardware)** | | | | |
| **Project Timeline** | | | | |
| **Week** | **Project Target** | **Details** | **Sign** | **Comments** |
| 1 | N/A | Project Presentation |  |  |
| 2 | Project Timeline Presentation | System Architecture design and finalizing the sensors that will be used in the project |  |  |
| 3 | Purchasing Hardware Tools  And getting started with Arduino | * Purchasing the hardware from the market. * Studying the datasheets of Sensors and Arduino |  |  |
| 4 | Interfacing LDR Sensor | * Interface LDR sensor with Arduino * Adjusting the laser light with LDR * Analyzing the Threshold value for which it can be determined that a person is passing or not. |  |  |
| 5 | Interfacing Fingerprint Sensor -01 | * Interfacing Fingerprint sensor with Arduino * Code Implementation in C for matching a Fingerprint |  |  |
| 6 | Interfacing Fingerprint Sensor -02 | Implementation of functionalities using AdaFruit Fingerprint sensor library. Detailed functionalities include :   * Enroll fingerprint of a new user * Update fingerprint of an existing user * Remove fingerprint of an existing user |  |  |
| 7 | Interfacing LDR and Fingerprint Sensor | Interfacing LDR and Fingerprint Sensor with Arduino |  |  |
| 8 | Wi-Fi interfacing | Wi-Fimodule interfacing with Arduino |  |  |
| 9 | Firebase Connection | * Connecting firebase with Arduino * Sending data to firebase from Arduino |  |  |
| 10 | Data Retrieval | * Retrieve data from firebase to web application |  |  |
| 11 | Testing -01 | * Integrating hardware and software together * Testing the whole project to find the anomalies |  |  |
| 12 | Testing -02 | * Installing the whole project outside classroom of CSE-17A * Taking fingerprint data of the students of CSE-17A |  |  |
| 13 | Final Project Submission | Final Project Simulation and present it before the panel |  |  |
| 14 | Final modification and update | Doing the modification suggested by the panel |  |  |