

Project Proposal

Level

Fingerprint Based Biometric Attendance System

Group 02

Department of ICT

Faculty of Technology

South Eastern University of Sri Lanka

2020

Project Proposal
Level
Fingerprint Based Biometric Attendance System
Group 02
Department of ICT
Faculty of Technology
South Eastern University of Sri Lanka
2020

K. Akash Shakthi Appuhamy	ICT081
A. P. Viraj Madhushanka	ICT144
A. S. Wijewardana	ICT107
A. G. D. Dilhara	ICT086
M. S. Jayalath	ICT093

Table of Contents

Table of Contents	i
1.0 Introduction	1
1.1 The importance of this project.....	1
1.2 Use of technologies	1
2.0 Aims & Objectives	2
2.1 Aims:	2
2.2 Objectives:.....	2
3.0 Propose Methodology.....	3
2.1 Design.....	3
2.2 Hardware and Software Requirements	3
2.2.1 Software Requirements.....	3
2.2.2 Hardware Requirements	3

1.0 Introduction

In this project we are going to design Fingerprint Sensor Based Biometric Attendance System using Arduino. Simply we will be **interfacing fingerprint sensor with Arduino, LCD Display & RTC Module** to design the desired project. In this project, we used fingerprint Module and Arduino to take and keep attendance data and records.

Biometric Attendance systems are commonly used systems to mark the presence in offices and schools. This project has a wide application in school, college, business organization, offices where marking of attendance is required accurately with time. By using the fingerprint sensor, the system will become more secure for the users.

1.1 The importance of this project

- To secure the User Details
- Avoid from Fake Attendance

1.2 Use of technologies

- Biometric Fingerprint Technology

2.0 Aims & Objectives

2.1 Aims:

The project aims at implementing a service for registering student attendance Arduino and fingerprint technology

2.2 Objectives:

The following are some objectives of this project

- To develop a system that will help in automatic taking and tracking of staff attendance by using fingerprint.
- To collect and analyze the requirements of the proposed system
- Reduce wasting time to analog attendance calculating

3.0 Propose Methodology

2.1 Design

- To design this system, use proteus 8 professional Software and also Arduino software.
Using this software create circuit diagram, Coding and test.
- Collect the hardware compliments and create the circuit.

2.2 Hardware and Software Requirements

2.2.1 Software Requirements

- Windows 10 ISO platform
- Proteus 8 Professional Software
- Arduino Software

2.2.2 Hardware Requirements

- Arduino Uno board
- R305/R307 Fingerprint Scanner Module
- RTC Module (DS3231 or DS1307)
- 16 X 2 LCD
- Push Buttons Switch – 4
- Buzzer
- LED
- Breadboard
- Connecting Wires