

# Table of Contents

Abstract .....	i
Acknowledgement .....	ii
List of Figures .....	iii
Abbreviations .....	iv
Chapter 1: Introduction .....	1
1.1 Problem Statement .....	1
1.2 Objective .....	1
1.3 Aim.....	2
1.4 Motivation .....	3
1.5 Scope .....	3
1.6 Application .....	4
Chapter 2: Literature Review .....	6
Chapter 3: System Design.....	8
3.1 Methods .....	8
3.1.1 Tools and Techniques Used .....	8
3.1.2 Method Selection.....	10
3.1.3 Take Attendance of Employee .....	11
3.2. Requirement Analysis.....	11
3.2.1 Functional Requirements.....	11
3.2.2 Non-Functional Requirements .....	11
3.3 Modules .....	11
3.3.1 User Module.....	11
3.3.2 Face Detection and Recognition module .....	11
3.3.3 Attendance Module .....	12
3.4 Use Case Diagram .....	13
3.5 Class Diagram.....	15
3.6 Flow Diagram .....	15
3.7 System Architectural Diagram .....	17
3.8 Software Requirements.....	18
3.8.1 Django .....	19

3.8.2 OpenCV .....	19
3.8.3 PostgreSQL .....	19
Chapter 4: Implementation and Discussion .....	20
4.1 Tasks Implemented .....	20
4.2 Output Obtained .....	20
4.3 Discussion.....	20
4.4 Testing .....	21
4.4.1 Black Box Testing.....	21
4.4.2 White Box Testing .....	24
4.5 Gantt Chart .....	25
Chapter 5: Analysis and Evaluation.....	26
5.1. Analysis of Output Obtained .....	26
Chapter 6: Conclusion.....	27
6.1 Limitations.....	27
6.2 Future Enhancement .....	28
References .....	29
Appendix.....	30