AI Enabled Social Distancing

Prepared by

1) **Siddharth Mohanty 18BCE0103**
2) **Harshit Goel 18BCE0165**
3) **Abhishek Kumar 18BCE0424**
4) **Venkanna Dora Palaparthi 19BCE0006**

Under the Guidance of Prof. Akila Victor

Vellore Institute of Technology , Vellore

22nd November 2021

Table of Contents

Table of Contents..... ii

Revision History..... ii

1. Introduction..... 1

1.1 Purpose..... 1

1.2 Document Conventions..... 1

1.3 Intended Audience and Reading suggestions..... 1

1.4 Product Scope..... 1

2. Overall Description..... 2

2.1 Product Perspective..... 2

2.2 Product Functions..... 2

2.3 User Classes and Characteristics..... 3

2.4 Operating Environment..... 3

2.5 Design and Implementation Constraints..... 4

2.6 User Documentation..... 4

2.7 Assumptions and Dependencies..... 4

3. External Interface Requirements..... 4

3.1 User Interfaces..... 5

3.2 Hardware Interfaces..... 5

3.3 Software Interfaces..... 5

3.4 Communications Interfaces..... 5

4. System Features..... 5

4.1 System Feature 1..... 5

5. Other Nonfunctional Requirements..... 10

5.1 Performance Requirements..... 10

5.2 Safety Requirements..... 10

5.3 Security Requirements..... 11

5.4 Software Quality Attributes..... 11

5.5 Business Rules..... 11

6. Other Requirements..... 11

Appendix A: Glossary..... 12

Appendix B: To Be Determined List..... 12

7. Architecture Diagram …….. 12

8. Data Flow Diagram ……. 13

9. State Chart Diagram ……... 15

10. Work Breakdown Structure …….. 15

11. Gantt Chart …….. 17

12 References ……... 18