# **FUNCTIONAL REQUIREMENTS DOCUMENT(FRD)**

## **Application Design and Planning**

#### Version History:

Phase	Version Number	Version Name	Author	Features	Changes
1	v1.0	Surveillance-v1.0		Appendix-A	Backend developed
П	v2.0	Surveillance-v2.0		Appendix-B	Frontend developed
Ш	v3.0	Surveillance-v3.0		Appendix-C	Integration of backend + frontend
IV	v3.1.0	Surveillance-v3.1		Appendix-D	Deployment (logical) architecture
V	v3.2.1	Surveillance-v3.2.1		Appendix-E	Android/Tab App
VI	v3.2.2	Surveillance-v3.2.2		Appendix-F	iOS App

**Technology Stack**: MVC Frameworks

- A. Backend:
  - 1. Python- Machine Learning
  - 2. Java- Network security and Firewall and stable ML backend
  - 3. Node JS- Notification system
  - 4. C#- Biometric
- B. Frontend:
  - 1. React JS/React Native- (SPA) Single Page application
  - 2. Angular JS- Portal system

## <u>Hardware Requirements:</u>

- A. External User- Laptop, Desktop, Mobile Phone, Tab
- B. System User- Tab
- C. Camera Surveillance on office corridors
- D. HOLOGRAM hardware projectors on office corridors for guidance

## Database:

- A. Relational DB: PostgreSQL (Python django), Oracle (JAVA), MSSQL(C#)
- B. Non-relational DB: MongoDB (Node JS)

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### **APPENDICES**:

APPENDIX—A

Backend developed: Python, JAVA, Node JS, C#

APPENDIX-B

Frontend developed: React JS, Angular JS

APPENDIX—C

Integration of backend + frontend: Dependable

APPENDIX—D

Deployment (for logical) architecture:

1. Testing Plan

- 2. Deployment
- 3. Containerization
- 4. Data Center
- 5. Data Disaster Recovery
- 6. Local deployment of the system monitoring
- 7. Global deployment of the website for visitor registration

APPENDIX—E

Android: (Kotlin/) JAVA on Android Studio

APPENDIX—F

iOS: Swift

#### **Bug History:**

Version	Test	Bug	Reporting	Description	Severity	Bug	Tested	Test	Tested
Number	ID	ID	date		Level	Status	by	Procedure	Date
v1.0	1	1	03-03-	Assemble a	Severe	Pending	Ishita	Plan and	02-09-
			2020	team for			K	Design	2020
				project-				the	
				Surveillance				project	
				System					