1. Introduction

1.1 Purpose

The software requirements specified in this document pertain to the development of a comprehensive solution for retail store surveillance. This project aims to address the challenges faced by the retail industry in maintaining security and optimizing store operations. The proposed software integrates intelligent video analytics to provide insights into customer behavior and enhance security measures.

The scope of this Software Requirements Specification (SRS) encompasses the development of an integrated system that includes functionalities such as customer count, gender recognition and violence detection. These features collectively contribute to enhancing security measures and optimizing store operations for retail businesses.

1.2 Document Conventions

This Software Requirements Specification (SRS) follows specific conventions to ensure clarity and consistency in presentation. The following conventions are employed throughout the document:

Font Size and Style:

- Regular text is formatted in Times New Roman font size 12.
- Subheadings are in bold and formatted in Times New Roman font size 13.
- Headings are in bold and formatted in Times New Roman font size 14.

Paragraph Formatting:

- Each paragraph starts from a new line to enhance readability and organization.

Priority Mechanism:

There is no priority mechanism used among the requirements in this document. All requirements are considered equally important for the development of the system.

1.3 Intended Audience and Reading Suggestions

Project Supervisors:

As the individuals responsible for guiding the project's development, project supervisors will utilize this document to ensure that the project requirements align with proposed solution and objectives. They play a crucial role in ensuring the successful execution of the project.

Project Panel:

Comprising members who provide oversight and guidance on the project's progress, the project panel will benefit from this document to assess the feasibility, relevance, and alignment of the proposed system with academic standards and requirements. They play a vital role in ensuring the project's compliance with academic expectations.

Developers:

Individuals responsible for implementing the software solution will refer to this document to understand the functional and nonfunctional requirements of the system. It will serve as a guide for the development process, aiding them in building the system according to the specified requirements and standards.

Content Overview:

The SRS provides a comprehensive overview of the proposed system, encompassing various aspects such as project objectives, functional requirements, interfaces, and quality attributes. It aims to articulate the project's scope, objectives, and technical specifications in a clear and structured manner.

Reading Sequence:

Supervisors and Project Panel:

Begin with an overview of the project provided in the Introduction and Project Scope sections. Then review the System Features and External Interface Requirements to understand the functionalities and interfaces of the proposed system. Finally, consider the Nonfunctional Requirements section to ensure that the project meets performance and quality standards.

Developers:

Start with the Project Scope and System Features sections to understand the goals and functional requirements of the system. Then delve into the External Interface Requirements to comprehend the system's interaction with external components. Finally, review the Nonfunctional Requirements to understand performance expectations and constraints.