**Software Requirement Specification**

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# Introduction

The following document encompasses the software requirement specification for our Facial Recognition Attendance Monitoring Engine. This will discuss the purpose of the system, the scope, what our objectives are as well as functional and non-functional requirements. The document will also contain system models that we will use to develop and implement the system requirements discussed.

## 1.1 Purpose of the system

The purpose of F.R.A.M.E is to analyse User’s faces using facial recognition and correlate this with their existing information in a database to mark them as attended in their lecture or class. F.R.A.M.E will be a portable system that can be placed at the entrance of lecture theatres or classrooms, allowing quick and easy attendance gathering. The system can also analyse the information to provide analytics and important information on sessions, such as plot graphs. This can be used by faculty to gain valuable insight into why User’s may or may not be attending required classes.

Currently, many educational institutes use outdated attendance gathering methods. These include paper registers and card scanners. F.R.A.M.E’s purpose is to give students an interactive and seamless method of attending. Many educational institutes do not have a school policy with gathering attendance, as individual lecturers may take attendance differently. Having a system that can aggregate all of this information into a single database, where information can be pulled from, gives the faculty a system that is easily scalable and universal.

## Scope of the system

Our project scope focuses on several core elements that allow us to have a functioning lightweight system, whilst still having future development option available to us. This is broken down into three sections; prototype scope, core scope, and future scope.

**Prototype Scope:**

**Core Scope:**

**Future Scope:**

## 1.3 Objectives

## 1.4 Definitions and Acronyms

# Proposed System

# Functional Requirements

# 4. Non-functional Requirements

## 4.1 Usability

## 4.2 Reliability

## 4.3 Performance

## 4.4 Supportability

## 4.5 Implementation

## 4.6 Interface

## 4.7 Legal

# 5. System Models