***Glimpze* - Face Identification**

**Documentation**

**Table of Contents:**

1. **Introduction**

1.1 Purpose

1.2 Intended Audience

1.3 Project Scope

1. **Overall Description**

2.1 Product Perspective

2.2 Product Features

1. **System Features**
2. **External Interface Requirement**

4.1 User Interfaces

4.2 Hardware Interfaces

4.3 Software Interfaces

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1. **Introduction**

1.1 Purpose

The purpose of this document is to build a mobile application that can access camera and detect human face with pop up information.

1.2 Intended Audiences

This project is to build a mobile application for KIT students use in order to know each other information (Face Recognition App). It is useful for new coming student as well as for lecturers to know them.

1.3 Project Scope

The objective of the system is to easily identify students, by only using the camera on your phone.

1. **Overall Description**

2.1 Product Perspective

The face identification system will have Machine Learning capability, that stores information including photos to identify a particular student information.

2.2. Product Features

The major features of the face identification system are:

* Face Recognition
* Face Identification
* Web-based API

1. **System Features**

Machine Learning

* The system will be trained with machine learning and face recognition algorithm to identify each face and by providing more pictures of each student, we will be able to improve the accuracy of the detection.

Mobile Friendly Application

* With our mobile application, users will be able to scan face with their phones, with an easy to use UI.

1. **External Interface Requirement**

4.1 User Interfaces

* Front-end software: Android Studio
* Back-end software: Tensorflow lite, Django

4.2 Hardware Interfaces

* Android
* A browser

4.3 Software Interfaces

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| **Software Used** | **Description** |
| Operating system | Android, Windows |
| Database | To save images used for machine learning purpose |