Introduction

Purpose

The following document provides a description of the system architecture consisting of a password recognition program. In order to provide a view at all levels so that its development and modification is favorable for all parties involved.

Scope

The preparation of this document allows to consider the factors involved in the development of the software. The document contains an overview through the design of diagrams given the prior analysis of the system requirements to solve a problem presented by a client. In addition, it forms the backbone to build a software and is largely responsible for allowing or not allowing certain quality attributes of the system.

Definitions, acronyms and abbreviations

UML: The Unified Modeling Language (UML, for its acronym in English, Unified Modeling Language).

Architectural Representation

Most Important Facts

This software program is a computer-driven application that automatically identifies the gestures of people facing the camera. This is possible by analyzing the characteristics and hand gesture.

Next, we will see a series of diagrams that will allow us to better understand the physical and logical composition of the system that this program will comprise.

Lenguajes y Librerias

The languages that were used were:

PYHTON: is an interpreted programming language whose philosophy emphasizes the readability of its code.

The libraries that were used were:

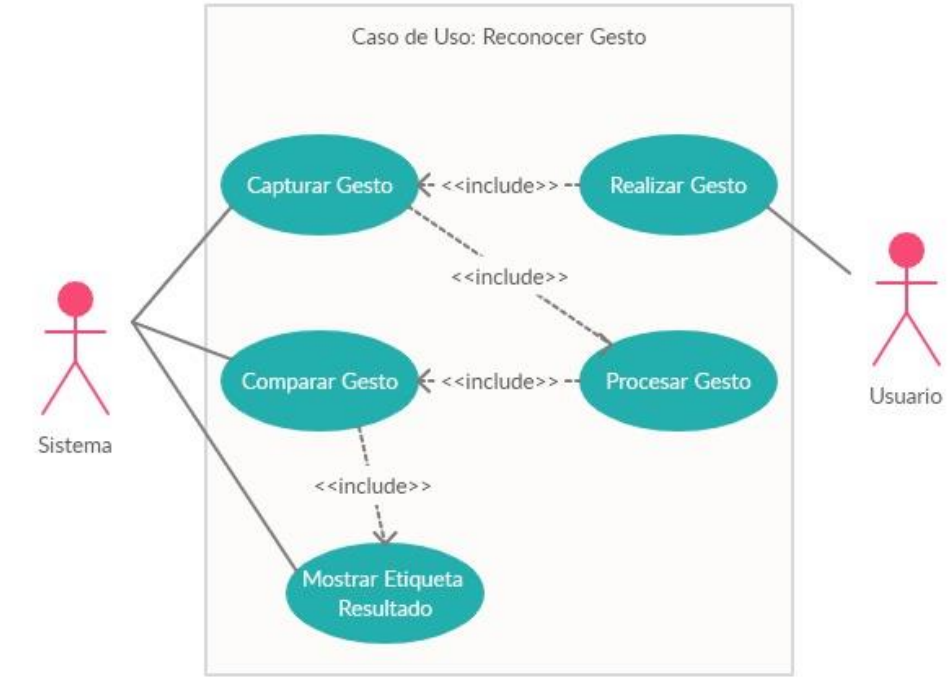
OpenCV: It is a highly optimized library that focuses on real-time applications. Cross platform. The C ++, Python and Java interfaces are compatible with Linux, MacOS, Windows, iOS, ...

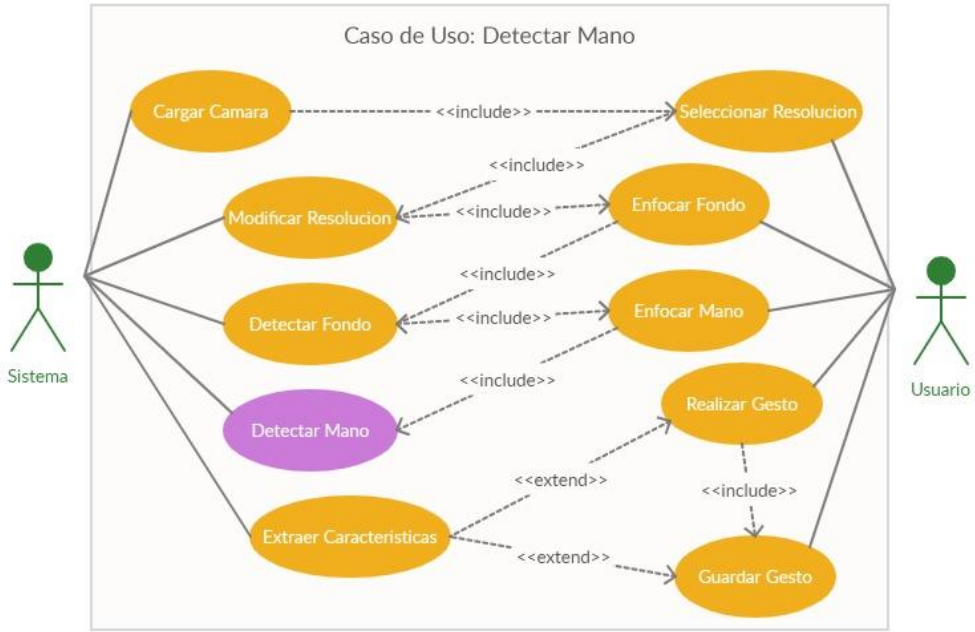
The development environment that was used was:

IDE (PyCharm)

Scenario View

Use Case Diagram





Logical View

Class Diagram