

# **Team : Infynite Loop**

STG Makeathon – March,2019  
Bhubaneswar

# Problem Statement

## Problem #3

### Visitor Management System

# Objective

To develop a Secure, Friction Less, Feature Rich and User Friendly visitor management system.

# Salient Features of our solution

## 1. Face recognition

- Find a visitor by their face
- Verify a visitor's identity by clicking their photo
- Kiosk application at key locations to identify a visitor by face

## 2. Paperless Operation

- Mobile application developed for security guards for easy paperless operation
- Gate pass and visitor requests sent electronically
- Overstaying alerts sent via Text Message automatically

# High Level Design

## Mobile App



## ML Services



TensorFlow



## Data Base



## Web APP



## Web Services



## Desktop APP

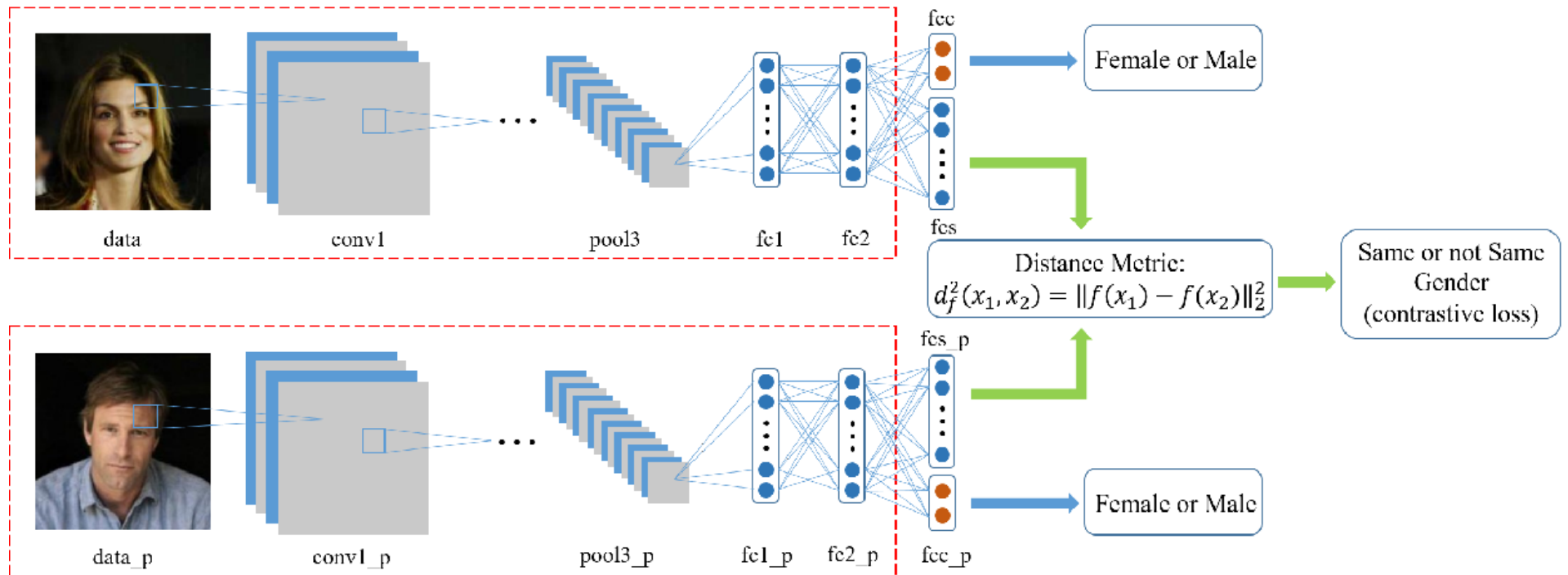


TensorFlow

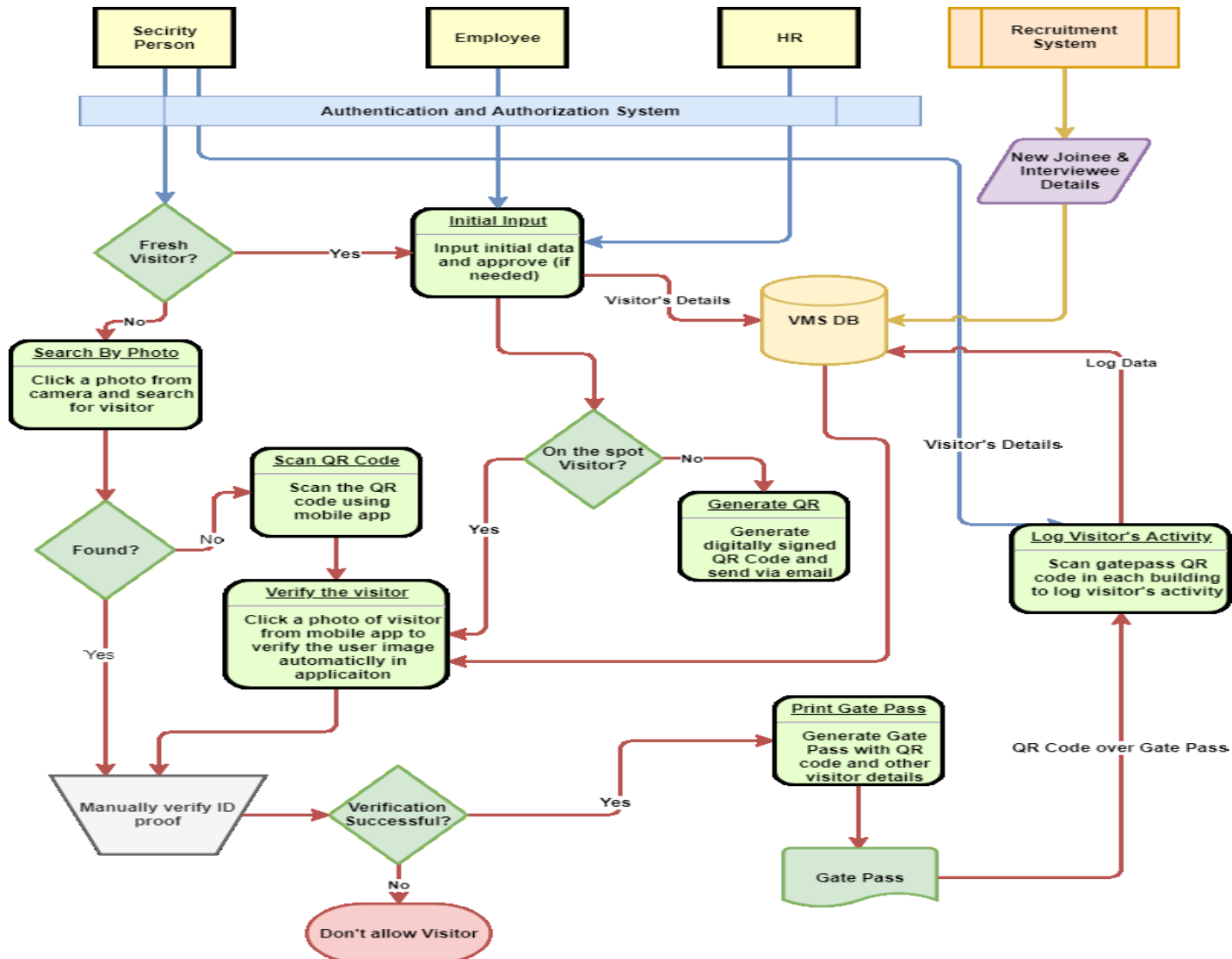


# Face Recognition Model

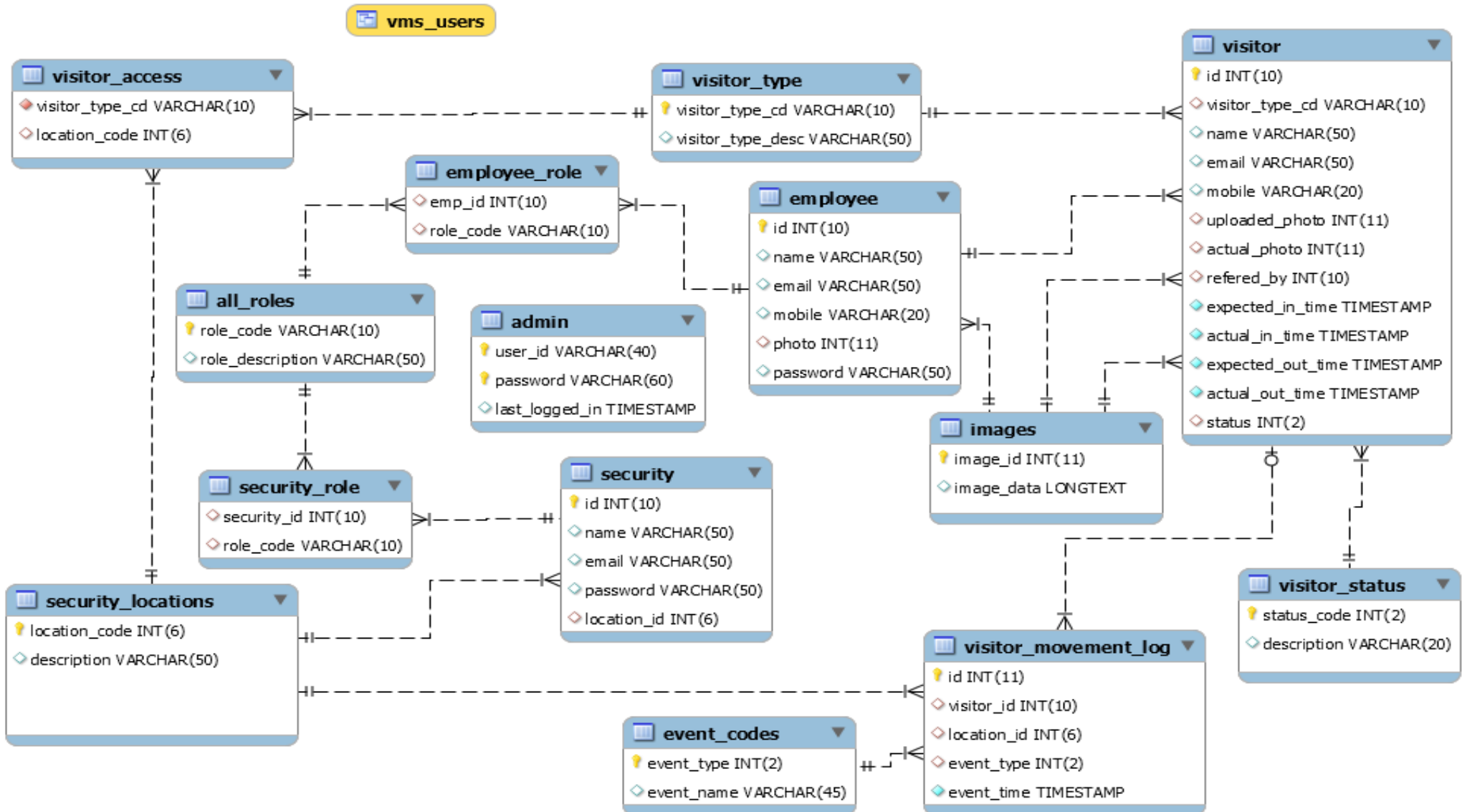
- One-shot Learning
- Using trained VGGNET model to convert images to vectors
- OpenCV is used to detect and crop faces from images



# Work Flow Diagram



# Database Model







**Demo**





**Thanks**

