

# System Server

## Docker Container

Python, Opencv, Dlib, Openface, Flask

### Surveillance System Controller

IP Camera Streaming

Frame Processing

Face Recognition

Face Database

System Alert Control

### Web Server

Video Streaming

Session Management

User Authentication

Data Request  
Management

Web Client Updates

Data Transfer

HTTP Response

HTTP Request

WebSocket

HTML, Javascript

### Client Web Interface

Surveillance Video

Alert Customization

IP Camera Settings

Faces Detected  
& Recognized

Database Manipulation  
and Training

HTTP Response

HTTP Request

## Raspberry PI

Python, Flask

### Web Server

Request Authentication

Alarm System Control

Control  
Signals

GPIO Alarm  
Interface