

# Face Recognition System Component Diagram

The **component diagram for face recognition system** is an illustration of how the system components work together to make the system operate correctly. It shows how the software's parts are organized and how they depend on each other. This diagram also gives a high-level look at the parts of a system.

The components of the face recognition system component diagram could be a part of software or hardware. They could be a database, a user interface, or something else that helps the face recognition system work.

## Face Recognition System Component Diagram in UML

A component diagram in the (UML) Unified Modeling Language shows how parts are wired together to explain the parts of the face recognition system. They are used to show the structure of any kind of system. UML component diagram also portrays the course registration overview that helps the developers to have a better understanding of the exact service behavior that each component of the software provides.

The UML component diagram shows how face recognition comprises a set of deployable components, such as dynamic-link library (DLL) files, executable files, or web services. Using well-defined interfaces, these parts communicate with each other and keep their internal details hidden from each other and the outside world.

## Characteristics of Component Diagram:

- In component-based development, they describe systems that have a service-oriented architecture.
- It shows how the code itself looks.
- It can be used to focus on the relationship between the parts while hiding the specifics.
- Help stakeholders understand how the system being built works and how it will be used.

## Benefits of using Component Diagram

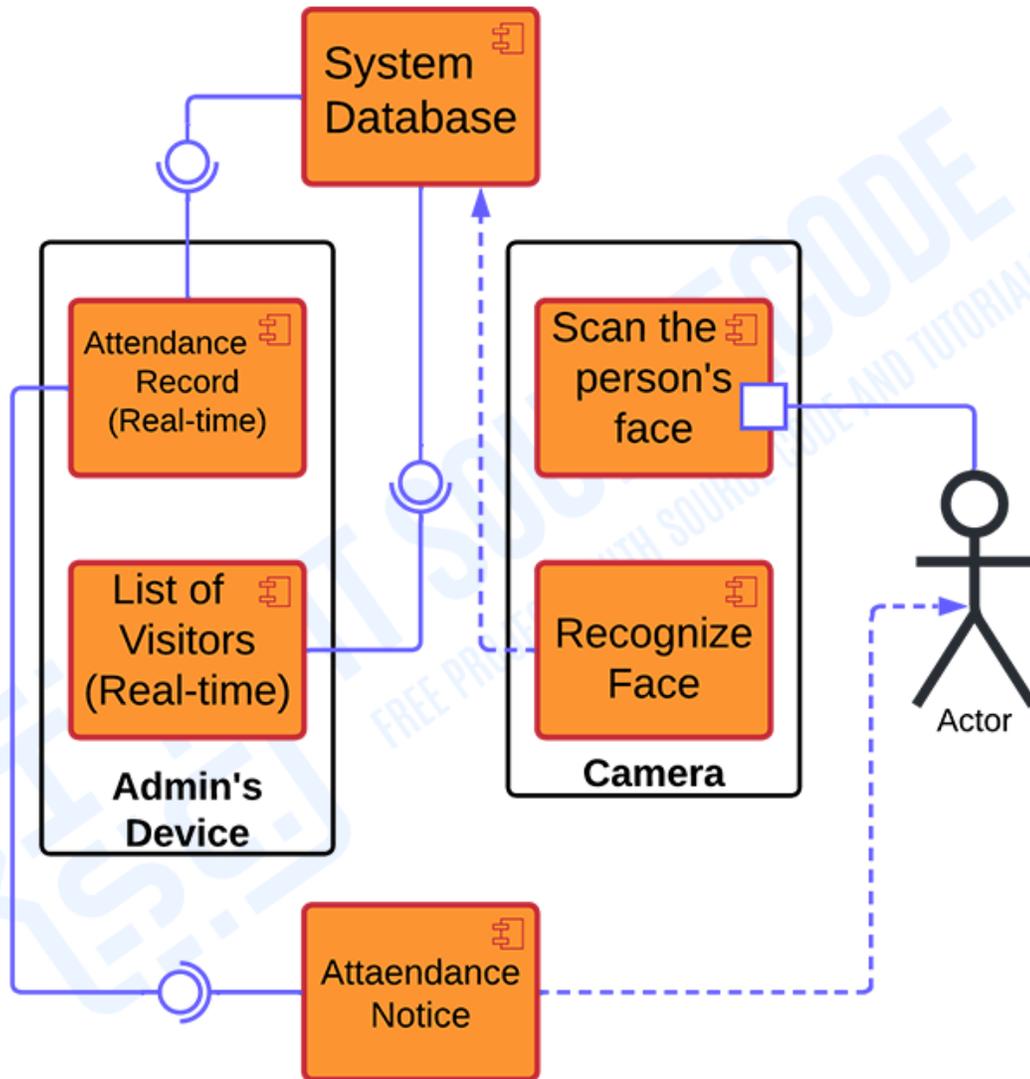
As complicated as it looks, the component diagram is very important when you're building your system because it shows how everything works together. Here are the benefits of designing the face recognition system component diagram:

- Imagine how the system looks in real life.
- Pay attention to the system's parts and how they work together.
- Pay attention to how the service behaves when it comes to the interface.

# The Component Diagram for Face Recognition System

This **component diagram of the face recognition system** illustrates the components of every hardware and software node. The component diagram below is a detailed illustration of the Deployment Diagram for Face Recognition System.

## FACE RECOGNITION SYSTEM



## COMPONENT DIAGRAM

*UML Component Diagram for Face Recognition System*

This component diagram shows the structure of face recognition, which consists of the software components and their interfaces, user information, and the database. Their dependencies explain how they work together. You can use component diagrams to show how software systems

work at a high level, or you can use them to show how each component works at a lower level, like in a package.

## **Face Recognition System Component Diagram (Explanation)**

The **Face Recognition System UML component diagram** explains the sketch of the required software and hardware components and the dependencies between them. These components are labeled to clarify their part in the system's operation. They were represented by symbols that explain their function and role in the overall face recognition system operation.

The component diagram of face recognition system has 8 components which are facial scanning, recognition, system database, attendance recording, visitor's recording, and attendance notice for the scanned person if he/she is recognized by the system. The visitor's information will be gathered by the system from confirmation of activities inside the establishment.

This diagram shows several interfaces that are provided and required. The dependencies on each component are explained through the lines and arrows drawn in the diagram. The required and provided interfaces were declared by the line that has a circle with a semi-circle head.