Component Diagram for Course Registration System

The **component diagram** is used to show how the components of **course registration system** works together to make the course registration operate correctly. This component diagram describes how the software's parts are organized and how they depend on each other. UML component diagram gives a high-level look at the parts of a system.

The components of a course registration 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 course registration work.

Course Registration 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 course registration 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 a course registration comprises a set of deployable components, such as dynamic-link library (DLL) files, executable files, or web services. Component diagrams can be used to represent software systems written in any programming language or style. 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.
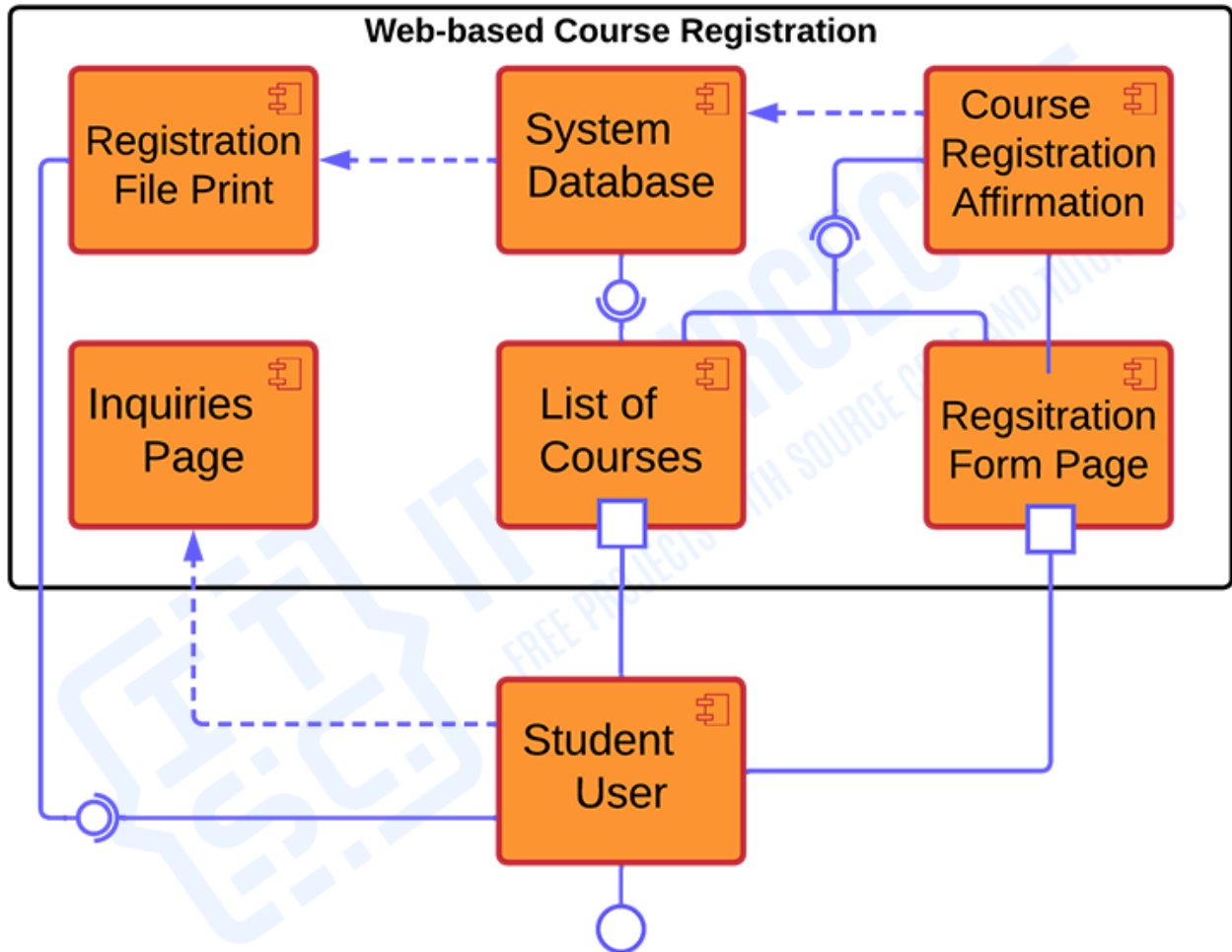
Benefits of using Component Diagram

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 course registration 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 Course Registration System

This **component diagram of course registration system** illustrates the components of every hardware and software node. The component diagram below is a detailed illustration of the Deployment Diagram for Course Registration System.

COURSE REGISTRATION SYSTEM

Web-based Course Registration

Registration File Print

System Database

Course Registration Affirmation

Inquiries Page

List of Courses

Regsitration Form Page

Student User

COMPONENT DIAGRAM

UML Component Diagram for Course Registration System

This component diagram shows the structure of the course registration, 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.

Course Registration System Component Diagram (Explanation)

The **Course Registration 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 course registration operation.

The component diagram of course registration system has 8 components which are the student user, inquiries page, list of courses, registration form page, course registration affirmation, system database, and registration file print.

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.