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CoMPONENT DIAGRAM

Contents

[1. What is a Component Diagram? 2](#_Toc482937044)

[2. Intent 2](#_Toc482937045)

[3. Structure 2](#_Toc482937046)

[4. Components 2](#_Toc482937047)

[5. Interactions 2](#_Toc482937048)

[6. Motivation 2](#_Toc482937049)

[7. Audience 2](#_Toc482937050)

[8. Component Diagram 2](#_Toc482937051)

## What is a Component Diagram?

Component Diagram further decomposes each Container. The functionality implemented by the software system can be partitioned out into various components, services, workflows, layers and subsystems

## Intent

A Component diagram gives insights into

* What components the system is made up of
* Is it clear how things work at a high level?
* Do all components have a container?

## Structure

A simple block diagram that shows the logical components. Just that we want to take up one component of the system at a time. So a system will have many component diagrams based on its size. Small systems can fit all components in a single component diagram.

## Components

Components are coarse grained building blocks of the system being built .It helps in understanding how to implement a use case / user story across one or more of these components. If this is feasible in the component diagram at hand then we can consider our design to have captured most of it.

**Name:** The name of the component

**Technology:** The technology choice for the component

**Responsibilities:** A high level of the component’s responsibilities

## Interactions

Typically the inter component communication must me annotated.

* The purpose of the interaction (Examples are uses, persists)
* Communication Style (Examples are synchronous, asynchronous)

## Motivation

A component diagram shows the logical components that reside inside a container. This diagram can be done at a much faster pace than the class diagram.

* It shows high level decomposition of the software system into components
* It shows the relationships and dependencies between the components
* Provides a framework for high-level software development estimates and how the delivery can be broken

## Audience

Technical people inside the software development team

## Component Diagram

Given below is the Component Diagram



