Software Architecture Diagrams

Agenda

- What
- Why
- How
- Cases
- Q&A

What

What

- A software architecture diagram is a **graphical representation** used to **depict the overall structure of a software system** and **the relationships between its componentsi**.
- It serves as a crucial tool in the software system design and development process, aiding development teams and stakeholders in gaining a better understanding of the system's organization, the interactions between modules, and the system's operational flow.

What Should be Included Typically?

What's the Types and Styles?

Type and Styles	Description	Cases
High-Level Overview Diagram	Provides a bird's-eye view of the entire system, highlighting key components and their interactions.	Use Case Diagram, C4 Model
System Structure Diagram	Illustrates the relationships between components and modules, emphasizing dependencies.	Component Diagram
Sequence Diagram	Depicts the temporal interactions between components, suitable for illustrating the system's operational flow.	Sequence Diagram
Deployment Diagram	Describes the physical deployment of the system, showing how software components are allocated to hardware.	Deployment Diagram

Who Should Know It?

Who Should Know It?

Everyone

Categories

Categories

UML

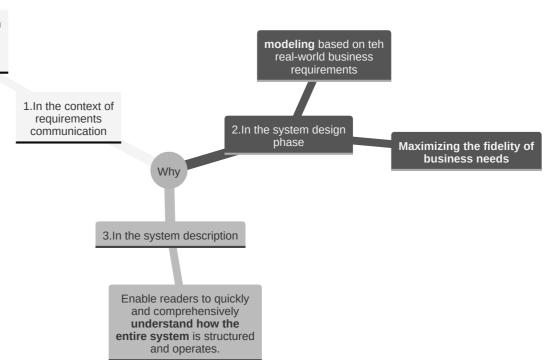
Why

Why

minimize communication gaps

reduce communication costs

standardize information exchange , and standardized information can significantly



How

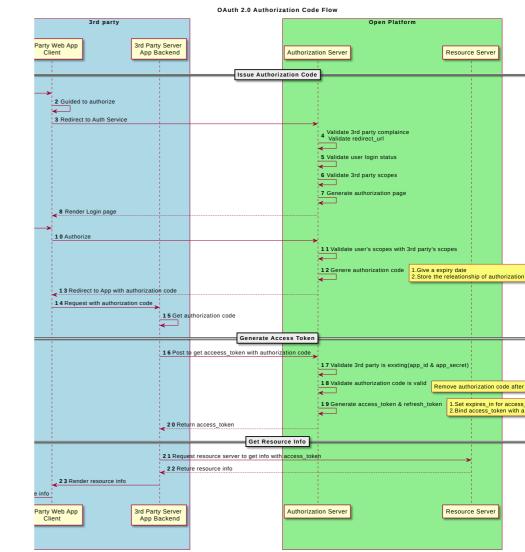
How

Tools

- PlantUML
- DrawIO
- Excalidraw
- **...**

Everything Should Be As Code

- Auto layout, saving time
- Common/default style, no ambiguity
- Version control
- **-** ..



Cases

Cases

Give us your cases accourding to UML

Q & A