Software Architecture Diagrams

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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?

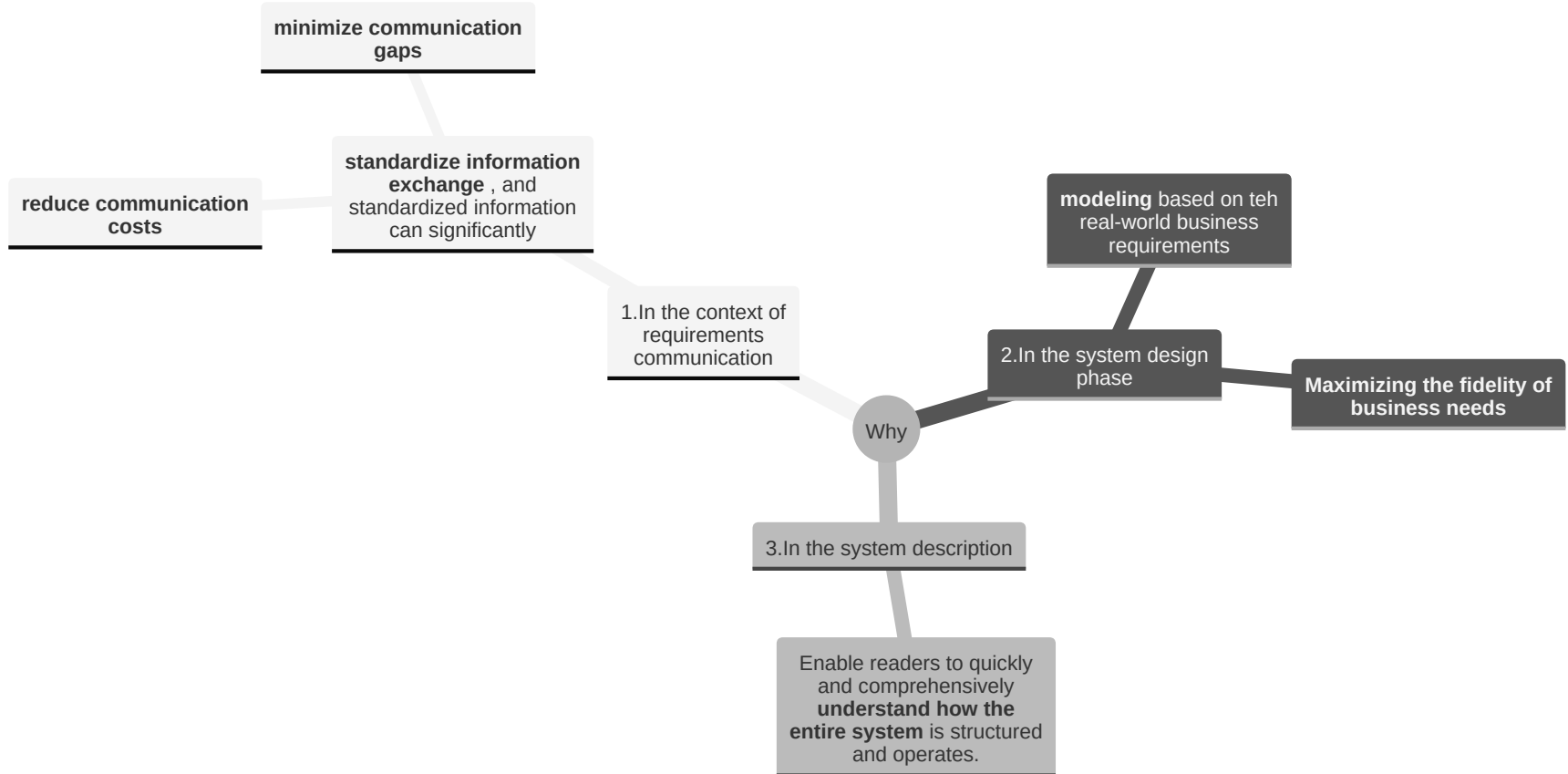| Type and Styles	Description	Cases
High-Level Overview Diagram	Provides a bird's-eye view of the entire system, highlighting key components and their interactions.	Use Case Diagram, C4 Model
System Structure Diagram	Illustrates the relationships between components and modules, emphasizing dependencies.	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

1.In the context of requirements communication

modeling based on teh real-world business requirements

2.In the system design phase

Maximizing the fidelity of business needs

Why

3.In the system description

Enable readers to quickly and comprehensively **understand how the entire system** is structured and operates.
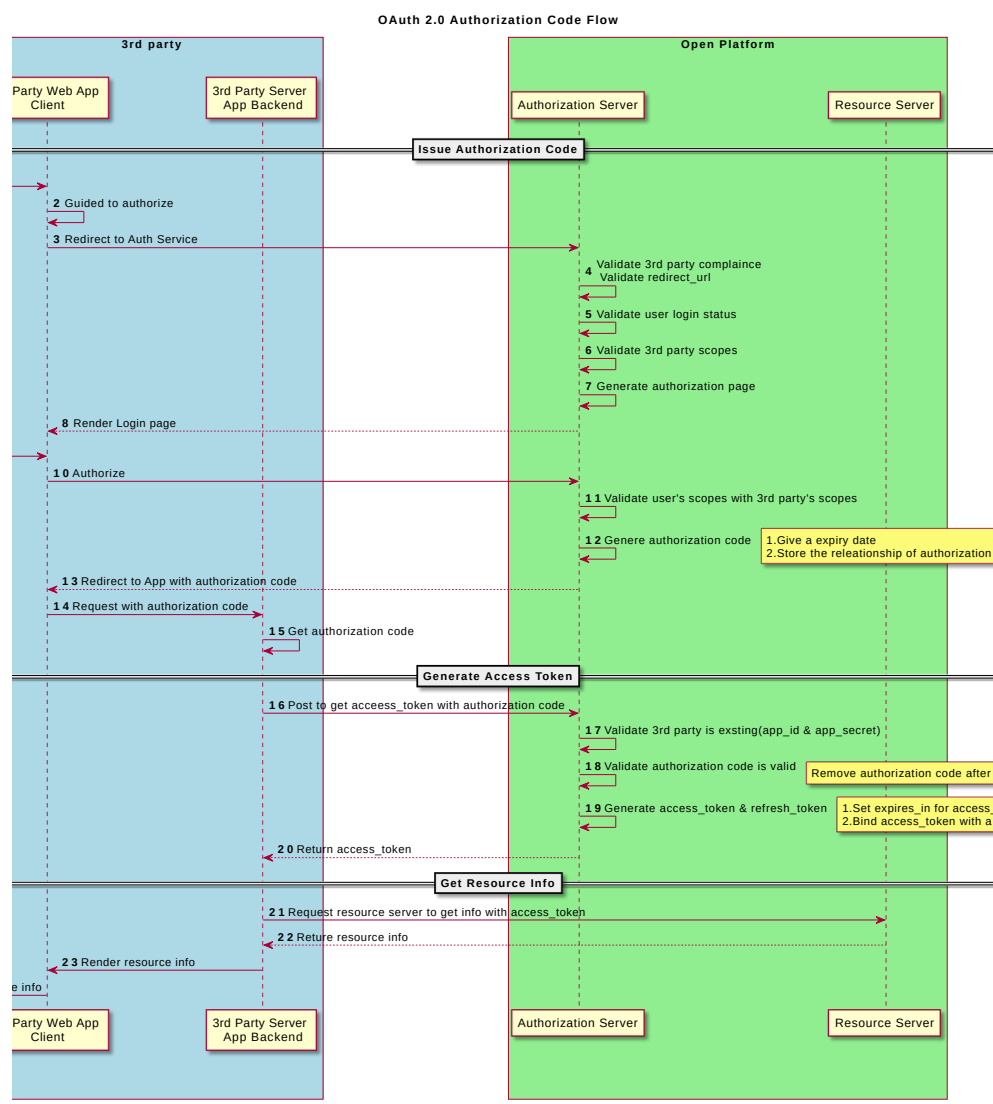
How

How

Tools

- PlantUML
- DrawIO
- Excalidraw
- ...

Everything Should Be As Code

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

OAuth 2.0 Authorization Code Flow

Cases

Cases

Give us your cases accourding to UML

Q & A