

Software Architecture Diagrams

2023-08 @Guzhongren

Agenda

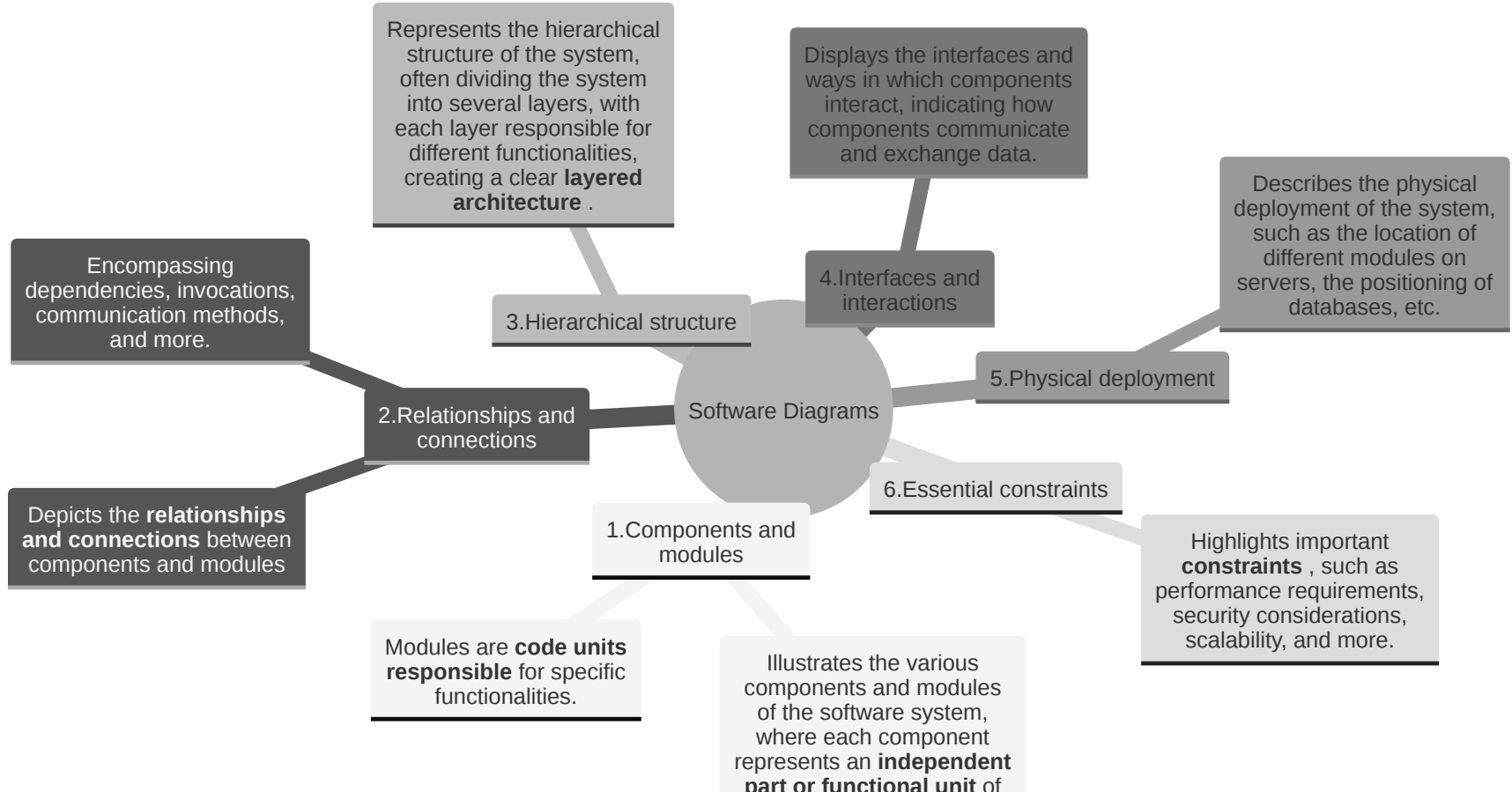
- What
- Why
- How
- Cases
- Q&A

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 components**.
- 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.	<u>Use Case Diagram, C4 Model</u>
System Structure Diagram	Illustrates the relationships between components and modules, emphasizing dependencies.	<u>Component Diagram</u>
Sequence Diagram	Depicts the temporal interactions between components, suitable for illustrating the system's operational flow.	<u>Sequence Diagram</u>
Deployment Diagram	Describes the physical deployment of the system, showing how software components are allocated to hardware.	<u>Deployment Diagram</u>
Flowchart	Displays the flow of different steps and decisions in the	<u>BPMN, FlowChart, Jira</u>

Who Should Know It?

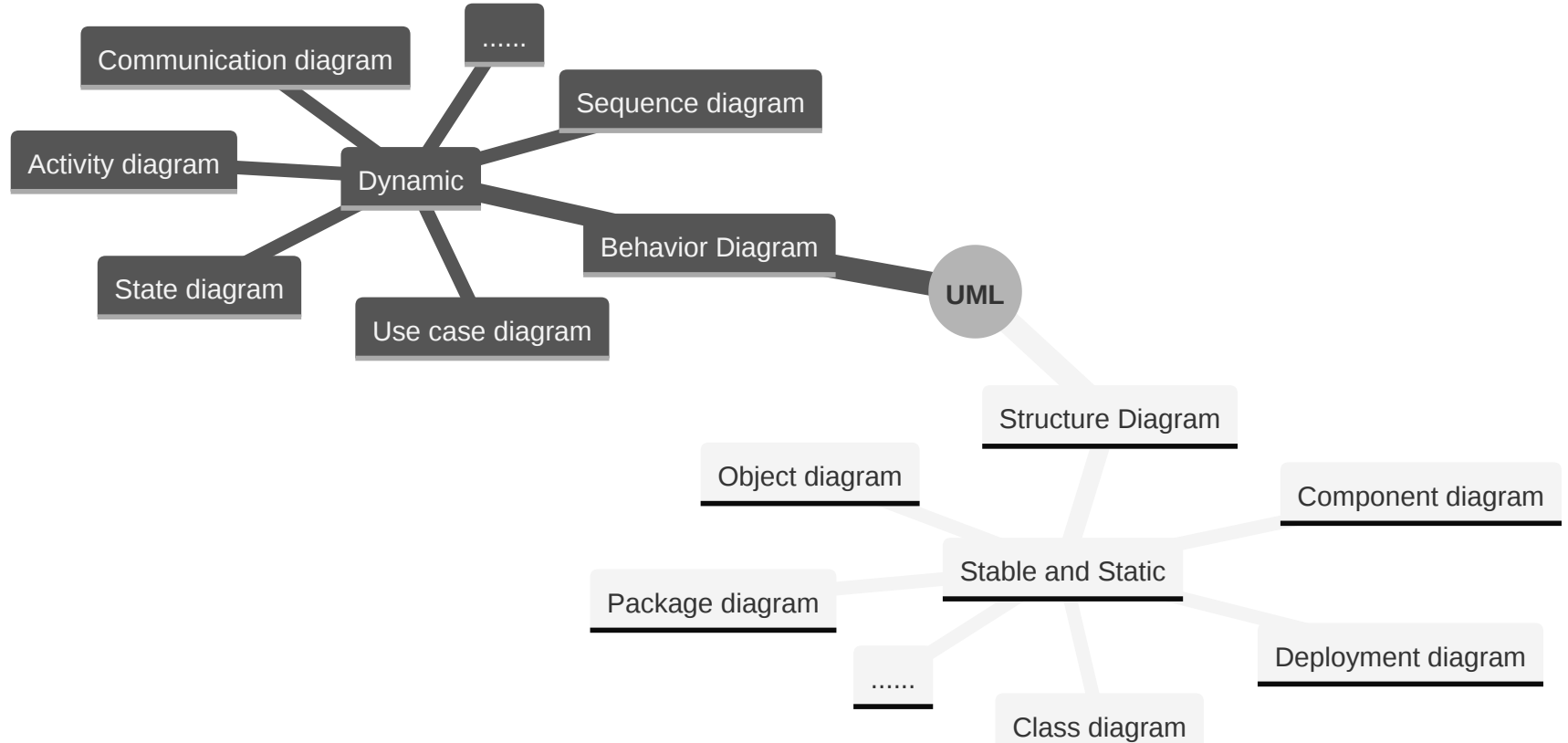
Who Should Know It?

Everyone

Categories

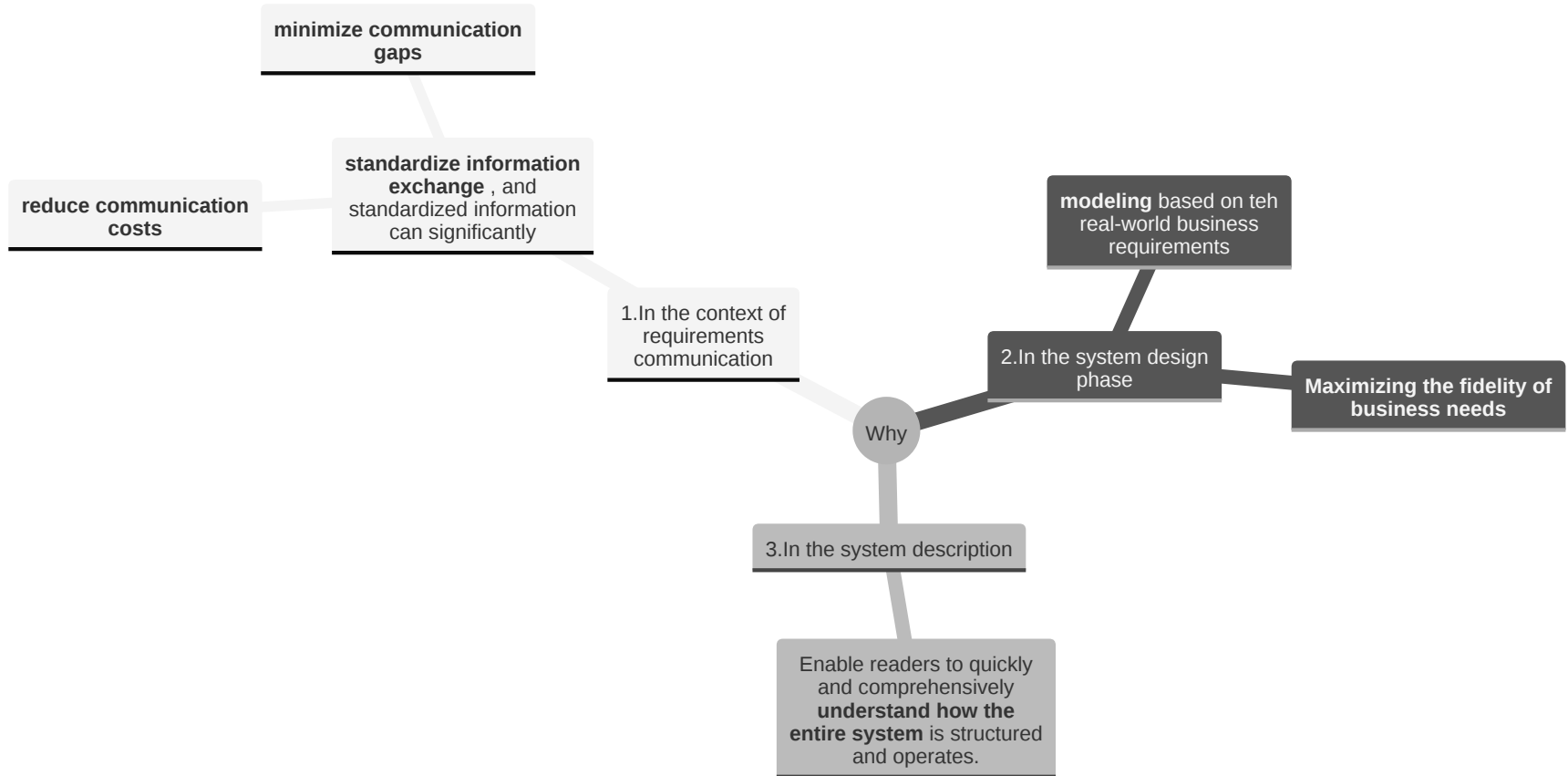
Categories

UML



Why

Why



How

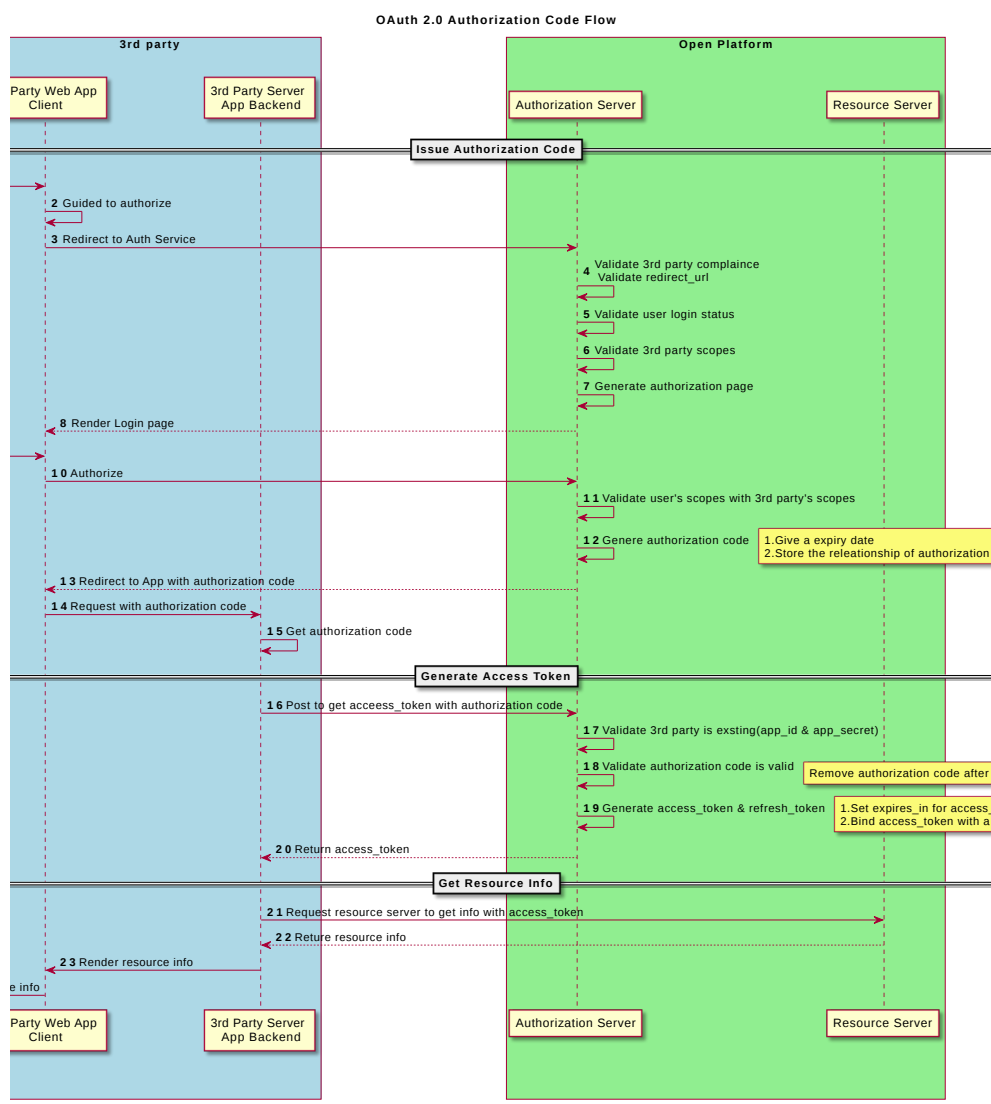
How

Tools

- PlantUML
- DrawIO
- Excalidraw
- ...

Everything Should Be As Code

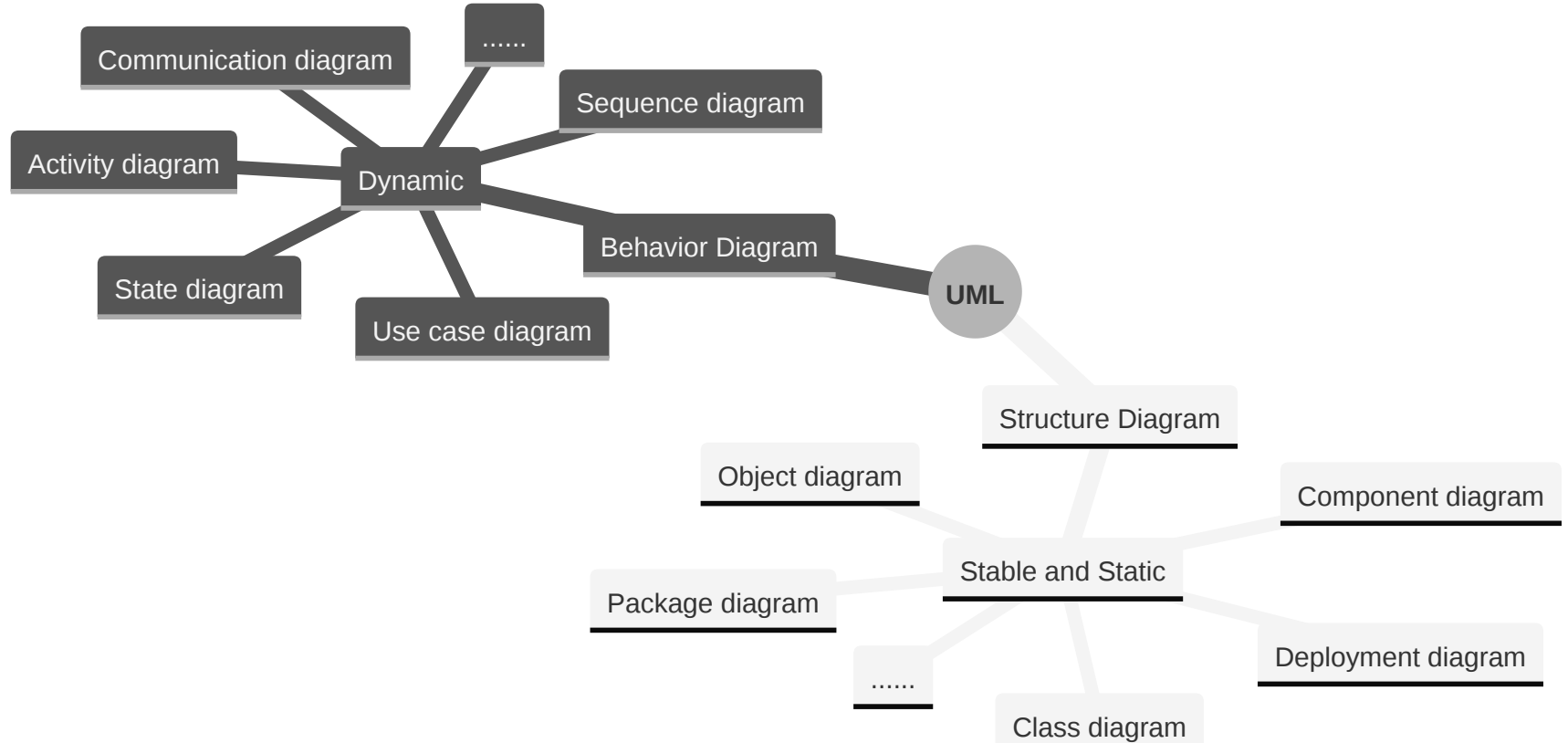
- Auto layout, saving time
- Common/default style, no ambiguity
- Version control
- ...



Cases

Cases

Give us your cases according to UML



Q & A