**BUS RESERVATON SYSTEM**

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**EXPERIMENT-11**

**To draw the environmental view diagram: Deployment diagram**

# Deployment Diagram

To draw an environmental view diagram, also known as a deployment diagram, you'll be illustrating the physical deployment of software components across different nodes (such as hardware devices or servers) in a distributed system. Here’s a step-by-step guide to creating one:

**Steps to Draw a Deployment Diagram:** 1. **Identify Nodes:**

* Nodes represent physical entities where components are deployed. These could be servers, workstations, laptops, mobile devices, etc.
* Start by listing all relevant nodes in your system architecture.

1. **Identify Components:**
   * Components are the software elements that run on nodes. These could be application software, databases, web servers, etc.
   * List all components that need to be deployed on the nodes.
2. **Draw Nodes:**
   * Begin your diagram by drawing the nodes. Use simple shapes like boxes or circles to represent them.
   * Label each node with a descriptive name (e.g., "Web Server", "Database Server", "Client Machine").
3. **Deploy Components:**
   * Place the components onto the nodes. Use appropriate symbols (usually rectangles) to represent components.
   * Connect components to their respective nodes using deployment arrows (dashed lines with an arrowhead pointing towards the node).
4. **Specify Relationships:** o If there are specific dependencies or relationships between components or nodes, indicate them with appropriate annotations or labels on the connectors.
5. **Add Artifacts (Optional):** o Artifacts represent files or other physical deployment units associated with components. o If necessary, add artifacts to illustrate specific files or configurations deployed on nodes.
6. **Label Interfaces (Optional):** o If your components expose interfaces (e.g., APIs, services), label these interfaces on the component boundaries.
7. **Include Stereotypes (Optional):**
   * Use stereotypes (such as <<web server>>, <<database>>) to clarify the role of nodes and components, especially if they represent specific types (e.g., cloud instances, edge devices).
8. **Review and Refine:**
   * Double-check the diagram for accuracy and clarity. Ensure all nodes and components are appropriately labeled and connected.

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