

CHH. SHAHU COLLEGE OF ENGINEERING

= -	Kanchanwadi, Paithan Road, Aurangabad. Date :
	Practical No: 8
	1.400001100:8
0	Aim: To draw the environmental view diagram: Deployment
	diagram.
0	Theory:
	o UMI Deplayment Discussion
	- The deployment diagram visualizes the physical hardwa-
	re on which the software will be deployed. It portra-
	13 the didite deployment went of a cuidence of
	the nodes and their relationships.
	- It ascertains how software is deployed on the hardware.
- E.7EP2	It maps the software architecture created in design to the physical system architecture, where the software
	The Comment of a page since it is used in
	I Thousand I shown by utilizing communication
	paths.
	Purpose of Daplayanal Di
	• Purpose of Deployment Diagram: - Following are the purposes of deployment diagram enlisted below:
	below: below:
V	
	1. To envision the hardware topology of the system.
******	2. To represent the naroware components as the
	Sollware components are installed
	3. To describe the processing of nodes at the runtime.

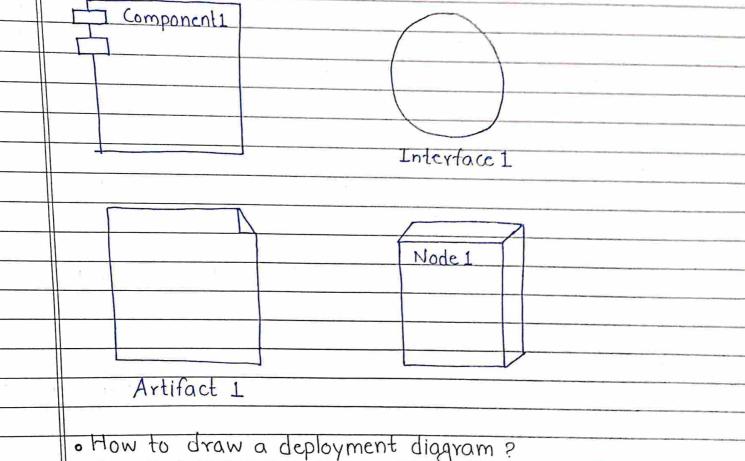


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- Symbol and notation of Deployment diagram:
 The deployment diagram consist of the following notations:
 - I. A component
 - 2. An artifact
 - 3. An interface
 - A. A node



- The deployment diagram portrays the deployment view of the system. It helps in visualizing the topological view of a system. It incorporates nodes, which are physical hardware. The nodes are used to execute



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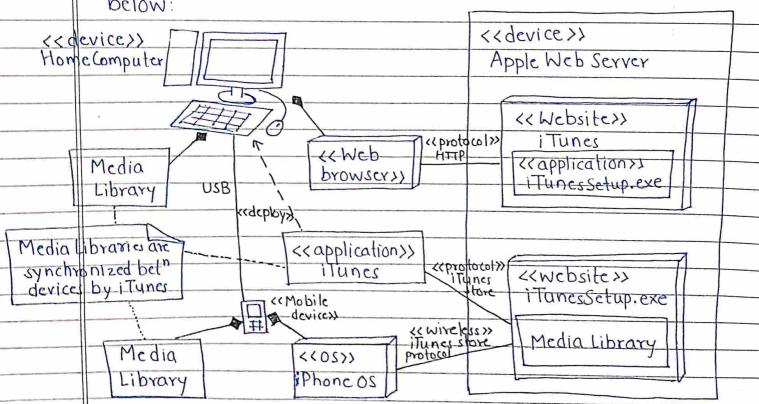
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the artifacts. The instances of artifacts can be deployed on the instances of nodes.

- Since it plays a critical role during the administrative process, it involves the following parameters:
 - 1. High performance
 - 2. Scalability
 - 3. Maintainability
 - A. Portability
 - 5. Easily understandable

· Example of a deployment diagram:

- A deployment diagram for the Apple iTunes appli is given below:





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· When to use a deployment diagram?
 When to use a deployment diagram? Deployment diagrams can be used for the followings:
1. To model the network and hardware topology of a
system.
2. To model the distributed networks and systems.
3. Implement forwarding and reverse engineering processes.
4. 10 model the hardware details for a client/server
 system.
 5. For modelling the embedded system.