



Assignment No.: 05

Title :- Draw Deployment diagram to model the runtime architecture of your system.

Theory :-

Deployment Diagram :-

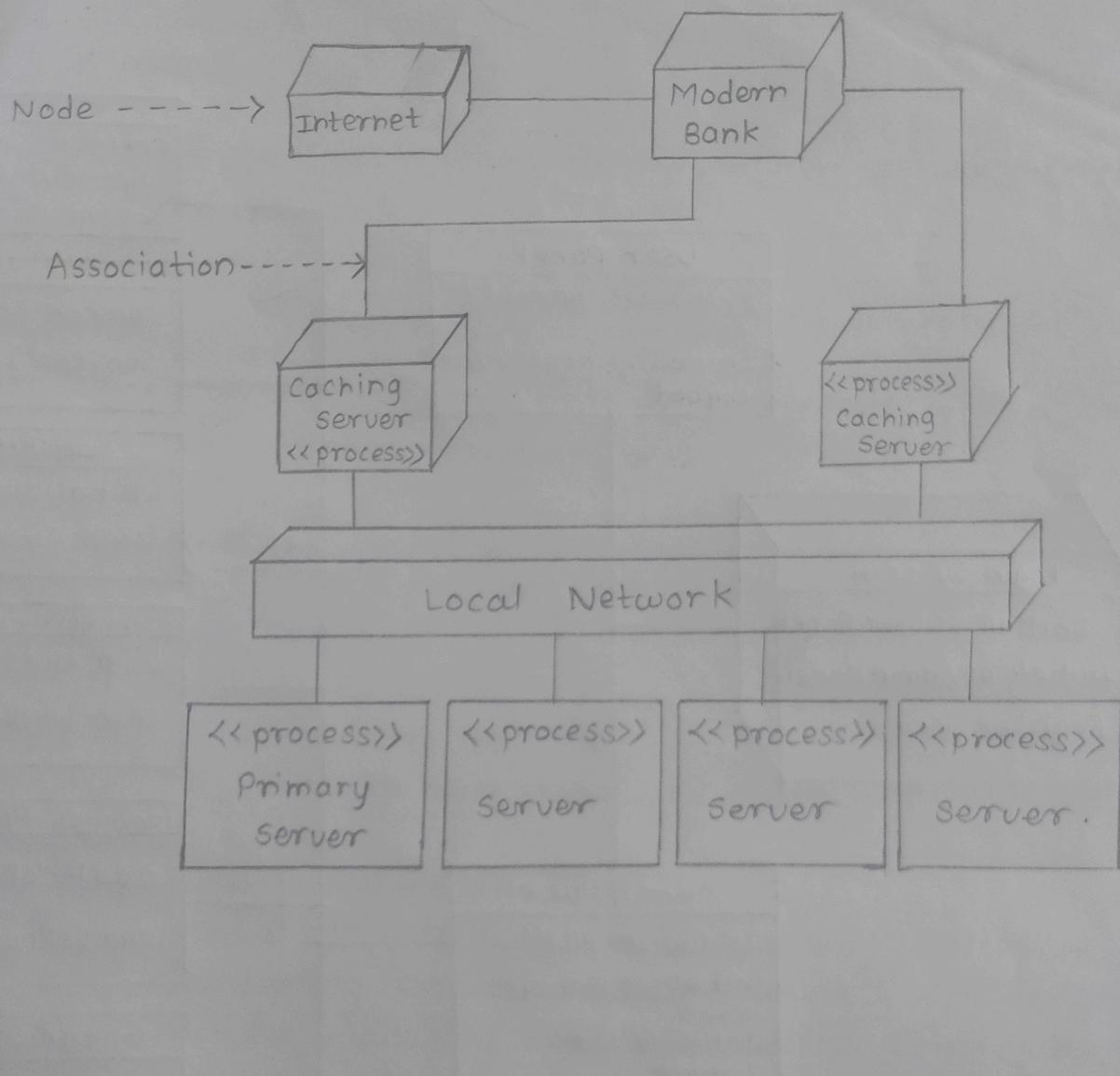
A deployment diagram is a UML diagram type that shows the execution architecture of a system including nodes such as hardware or software execution environment and the middleware connecting them.

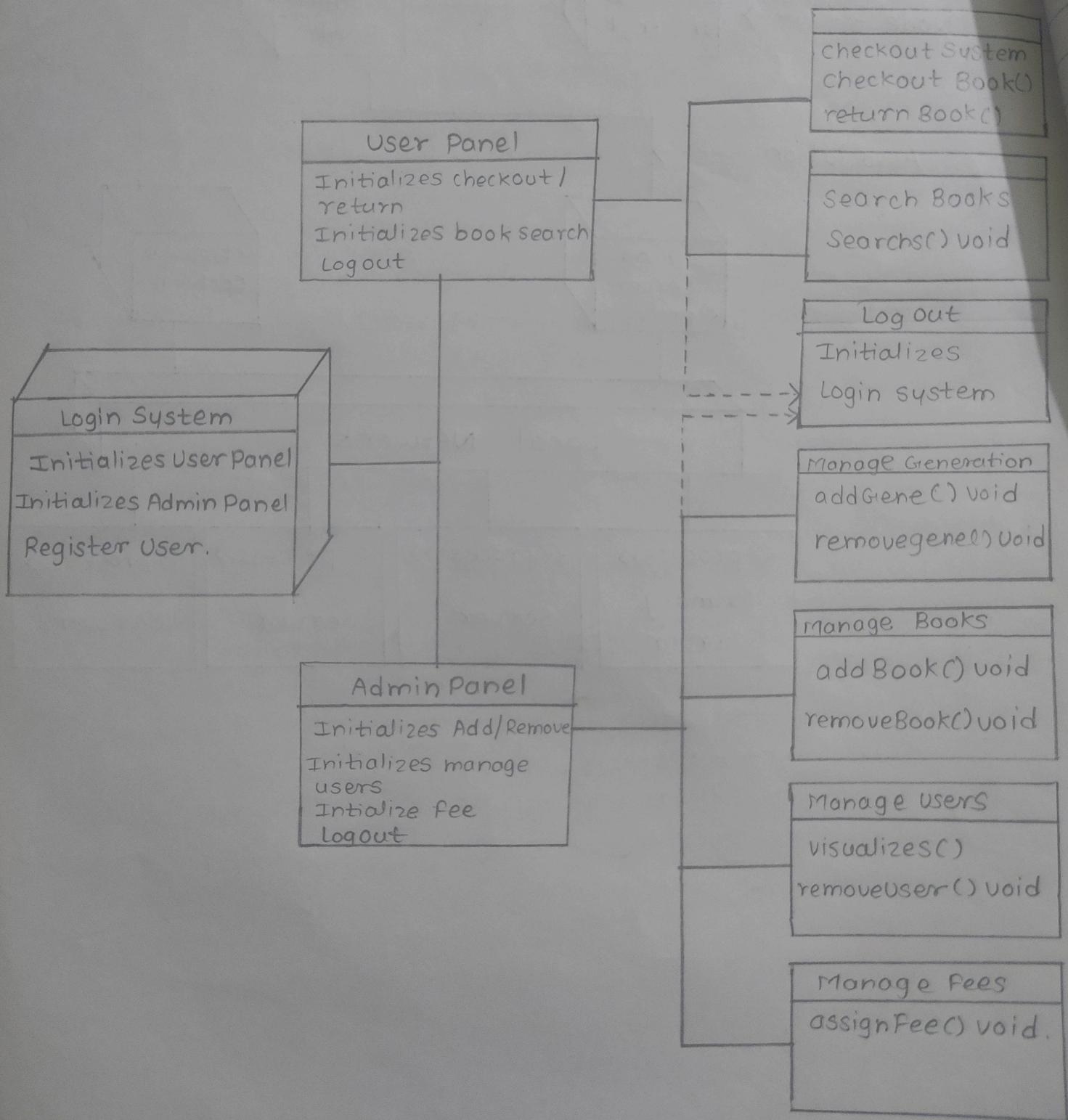
Deployment diagrams are typically used to visualize the physical hardware and software of a system. Using it you can understand how the system will be physically developed on hardware.

Purpose of Deployment diagram :-

1. They show structure of the runtime system .
2. They model the physical hardware elements and the communication paths between them .
3. They can be used to plan the architecture of a system.







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Fig:- Deployment Diagram for Library Management system

Nodes

- 3D box represents a node, either software or hardware.
- Hw node can be signified with << stereotype>>
- Connection between node are represent with a line, with optional << stereotype>>.
- Nodes can reside within a node.

Other Notations:

- Dependency
- Association relationship.
- May also contain roles and constraints

Deployment Diagram at Glance :-

They are important for visualizing, specifically and documenting embedded client / server & distribute system and also for managing executable system through forward and reverse engineering.

Conclusion :-

Thus we have studied what is deployment diagram & how to use it & visualise the system.