Abhay G

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SE - EXPT 11

<u>Aim</u> :- Development of Component and Deployment Diagram for the Project.

<u>Theory</u> :-

<u>Component Diagram</u> :- A component Diagram is used to break down a large object-oriented system into the smaller components, so as to make them more manageable.

→ It models the physical view of a system such as executables, files, library etc, that Resides within the node.

→ It visualizes the Relationships as well as the organization b/w the Components present in the System. It helps in forming the executablesystem

<u>Notations</u> of a component Diagram :-

    (i) A Component
    (ii) A node

<u>Purpose of Component Diagram</u> :-

    ⓐ It envisions each Component of a system
    ⓑ It constructs the executable by Incorporating forward and Reverse Engineering.
    ⓒ It depicts the Relationships and organization of components.

Deployment Diagram :-

→ Deployment Diagram visualizes the physical Hardware on which the software will be deployed.

→ It portray the static Deployment view of a system. It involves node and their Relationships

→ It ascertains how software is deployed on Hardware. It maps the software architecture created in Design to physical system Architecture.

Purpose of Deployment Diagram :-
      a) To envision the Hardware topology of the system.
      b) To Represent the Hardware components on which the software components are installed.
      c) To describe the processing of nodes at RunTime.

Symbol and Notation of Deployment Diagram :-
      a) Component
      b) An Artifact.
      c) An Interface.
      d) A node.

Conclusion :- Hence we have studied Component and Deployment Diagram and implemented the same.